FINAL

PHASE I INVESTIGATION FIELD REPORT

Remedial Investigation
Former Camp Hero, Montauk, New York

Revision: 1

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ACRONYMS AND ABBREVIATIONS

µg/kg	microgram per kilogram
ACWS	Aircraft Control and Warning Squadron
ADR	automated data review
AGC	Army Geospatial Center
AOC	area of concern
AST	aboveground storage tank
bgs	below ground surface
CAMP	Community Air Monitoring Plan
CERCLA	Comprehensive Environmental Restoration, Compensation, and Liability Act
CFR	Code of Federal Regulations
CP	Commissioner Policy
DER	Division of Environmental Remediation
DERP	Defense Environmental Restoration Program
DoD	Department of Defense, United States
DU	Decision Unit
ER	Engineer Regulation
ft	foot or feet
FPS	Fixed-Pulse Radar-Surveillance
FUDS	Formerly Used Defense Site
HHRA	human health risk assessment
MCL	maximum contaminant level
MEC	munitions and explosives of concern
mg/kg	milligram per kilogram
mm	millimeter
MS	matrix spike
MSD	matrix spike duplicate
NY	New York
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OPRHC	Office of Parks, Recreation, and Historic Preservation
PAH	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl
ppm	parts per million
PSL	project screening level
QA	quality assurance
QC	quality control

RI	Remedial Investigation
SAP	Sampling and Analysis Plan
SIM	selected ion mass spectrometry
SLERA	screening-level ecological risk assessment
SVOC	semivolatile organic compound
TCLP	toxicity characteristic leaching procedure
TOGS	Technical & Operational Guidance Series (NYSDEC)
TSCA	Toxic Substances Control Act (1976)
UFP	Uniform Federal Policy
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
UST	underground storage tank
UXO	unexploded ordnance
VOC	volatile organic compound
WP	Work Plan

EXECUTIVE SUMMARY

AECOM-Tidewater JV is conducting a Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA) Remedial Investigation (RI), Feasibility Study, Proposed Plan, and Decision Document, at Camp Hero, a formerly used defense site (FUDS). This work is being completed under contract number W912DR-13-D-0016 for the United States Army Corps of Engineers (USACE). The RI for this site is being completed in two phases, with Phase I having been completed in June 2016. This Phase I Investigation Field Report provides: (1) a documentation of the field activities, (2) details on any significant deviations from the work plan that may have occurred, and (3) all the raw data collected.

Camp Hero State Park is located on the eastern tip of the south fork of Long Island, New York (NY), approximately 5 miles east of the Village of Montauk. The former Camp Hero was established in early 1942 as a Coastal Defense Installation and the facility changed ownership within the military multiple times over the course of the following decades. Between 1974 and 1984, site lands were transferred to State, Local, and other Federal agencies, and the facility was permanently closed in 1982. The area is now used as Camp Hero State Park and is owned by the New York State Parks Commission.

Former Department of Defense (DoD) activities at Camp Hero may have resulted in contaminated material or an environmental release from these materials at certain Areas of Concern (AOCs). The RI technical approach consists of two phases of field sampling investigation (Phase I and Phase II). The primary objective of the Phase I investigation was to determine the presence or absence of contamination at the Camp Hero AOCs. The primary objectives of the Phase II investigation is to determine the nature and extent of target constituents in soil, groundwater, surface water, and sediment at the Camp Hero AOCs where the presence of contamination above applicable screening criteria is established following the Phase I investigation and to determine if there are unacceptable risks to human health and ecological health associated with exposure to related constituents.

Forty-five AOCs were identified in the RI Work Plan (WP), including former waste disposal and coal storage areas, abandoned drum locations, and former storage tanks (AECOM-Tidewater JV, 2016). Two additional AOCs were established by the USACE and the AECOM-Tidewater JV team during the Phase I investigation, for a total of forty-seven AOCs investigated during the Phase I activities. The locations are shown on site wide **Figure 1-2** and individual AOC Figures are presented as **Figures 4-2 to 4-37** (Appendix A).

Phase I investigation activities included a geospatial survey utilizing archived aerial photography, digital geophysical mapping of select AOCs, a botanical survey for the protection of rare and threatened species, field sampling, and surveying. The geospatial survey (aerial photography archival research) of the former Camp Hero, performed by the U.S. Army Geospatial Center, evaluated Camp Hero for the potential presence of waste disposal areas which may have been

utilized during DoD activities at Camp Hero. The geospatial survey was conducted as part of the June 2016 Final RI WP and results are presented in that document; however, the results are also included as Appendix E to this Phase I Investigation Field Report for reference.

The Phase I investigation was generally completed to the scope that was provided in the WP. Any deviations to the RI WP are provided in detail within this report. The most significant deviation consisted of the inability to collect groundwater samples at some of the AOCs due to a lack of groundwater from the perched aquifer. Temporary wells were installed and visited multiple times in an attempt to obtain sufficient quantities of groundwater for sample collection. This lack of available groundwater in some locations required a prioritization of analytical parameters due to the large number of sample containers required as a result of the long list of constituents that were being analyzed. Another significant deviation from the WP was at the Battery 112 AOC, which could not be investigated due to the lack of safe access. Lastly, tables which compare the analytical data to project screening levels and determinations of whether each AOC requires further investigation during Phase II are not included in the Phase I Field Investigation Report. To provide a more thorough analysis, tables and recommendations will instead be provided as part of an addendum to the RI WP that will describe the activities to be completed during the Phase II RI (referred to as the RI WP Addendum).

This Phase I Investigation Field Report describes the investigation activities and provides analytical results of the Phase I investigation. The Phase II RI sampling activities will be detailed in the WP Addendum, which will describe specific activities and sampling protocols for the Phase II RI. The RI WP Addendum will be provided to the project team for review, comments, and concurrence with recommendations.

The information and data collected during the Phase II RI will serve as the basis for a baseline Human Health Risk Assessment (HHRA) and Screening-Level Ecological Risk Assessment (SLERA). The objectives of the baseline HHRA and the SLERA are to evaluate whether concentrations of constituents from the AOCs pose unacceptable risks to human health and the environment, and to develop site-specific preliminary remediation goals, if necessary.

1.0 INTRODUCTION

Under contract to the United States Army Corps of Engineers (USACE), AECOM-Tidewater JV is conducting a Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA) Remedial Investigation (RI), Feasibility Study, Proposed Plan, and Decision Document, at Camp Hero, a formerly used defense site (FUDS) under Contract Number W912DR-13-D-0016, Order Number DB01. A Camp Hero general location map is provided as **Figure 1-1** in Appendix A. The areas of concern (AOCs) at Camp Hero established in the June 2016 RI Work Plan (WP) are based on 1) the Camp Hero Feasibility Study/Hazardous Materials Survey prepared by NY State Parks contractor Cashin Associates in 1998 (hereinafter, "Cashin Report") and 2) a historical records search conducted in 2016 in preparation of this RI (AECOM, 2016). AOCs include former waste disposal areas, coal storage areas, abandoned drum locations, and former storage tanks. A site map with AOC locations is provided as **Figure 1-2** in Appendix A. The RI scope of work for this project is limited to the investigation and characterization of these sites (i.e., no remediation).

The RI technical approach consists primarily of two phases of investigation, Phase I and Phase II. The Phase I investigation was intended to confirm either the presence or the absence of suspected DoD waste at an AOC. A Phase II investigation will be conducted to define the nature and extent of the waste constituents at the AOCs where the presence of contamination above applicable screening criteria is established during the Phase I investigation. AECOM-Tidewater JV prepared this Phase I Investigation Field Report under Contract Number W912DR-13-D-0016, Order Number DB01, to provide: (1) a documentation of the field activities, (2) details on any significant deviations from the work plan that may have occurred, and (3) all the raw data collected.

1.1 Facility Background

The Camp Hero State Park Site consists of 469 acres located on the eastern tip of the South Fork of Long Island, NY, approximately 5 miles east of the Village of Montauk in Suffolk County, NY (**Figure 1-1** in Appendix A). Camp Hero State Park is split into two large subareas: the former Military Area (the Site) and the "Sanctuary Area." The Site is bounded by Montauk Highway (Route 27) to the north, the Atlantic Ocean to the south, Montauk Point State Park to the east, and Camp Hero State Park's undeveloped sanctuary area to the west.

The former military facility Camp Hero was established in early 1942 as a Coastal Defense Installation to defend the approaches to New York and was named in honor of Major General Andrew Hero. Three self-sufficient batteries (Battery 112, 113, and 216) and supporting facilities were constructed which included barracks, mess halls, hospital facilities, a motor repair shop, a recreation facility, sentry boxes, and water supply and sewage facilities. A total of 600 enlisted men and 37 officers were stationed at Camp Hero.

Camp Hero was a sub-installation of the 11th Coast Artillery Regiment (Harbor Defense) located at Fort H.G. Wright, Fischers Island, Block Island Sound, New York. Fort H.G. Wright was under the control of the Eastern Defense Command. Elements from the 11th Coast Artillery Regiment, along with elements from the 242nd Connecticut National Guard Coast Artillery Regiment (Harbor Defense), which augmented the 11th Coast Artillery Regiment at Fort H .G . Wright.

Battery 216 (identified as Bunker 216 on Figure 1-2) contained two 6-inch shielded guns, a mechanical power room, and powder room for storage of ammunition and powder charges. Battery 113 (identified as Bunker 113 on maps) consisted of two 16-inch casemated guns and battle allowances of ammunition and powder charges were stored within the battery. Battle allowances of ammunition and powder charges for the Camp Hero battery guns were stored within the individual batteries of the camp. A requirement for war reserve allowances of ammunition for the batteries also existed. However this ammunition was stored outside of Camp Hero installation boundaries at an unknown central depot location under the control of the Chief of Ordnance. Batteries 112 and 113 had a battle allowance of 200 16-inch 2,240-lb projectiles and a war reserve allowance of 300 16-inch 2,240-lb projectiles. Battery 216 had a battle allowance of 200 6-inch 90-lb HE (high explosive) rounds and 300 6-inch 105-lb AP (armor piercing) rounds and a war reserve allowance of 300 6-inch 90-lb HE rounds and 400 6-inch 105-lb AP rounds (USACE 2000).

Additionally, 37-millimeter (mm) weapons and .50-caliber antiaircraft weapon platoons were assigned to protect the Camp from air attack. The Camp's weaponry was periodically fired to practice over water but was never fired as a result of an act of hostility. It is presumed that the antiaircraft weapon ammunition for Camp Hero and nearby facilities was also stored within the battery ammunition storage facilities of Camp Hero, as no other historical or physical evidence is present to display a separate storage facility for these items. This was conceivably possible due to the storage capacity of 400 rounds of ammunition in Batteries 112 and 113, and a battle allowance requirement of only 200 rounds of ammunition (USACE 2000).

The Camp was placed on inactive status on July 31, 1947 and ultimately declared surplus by the Department of the Army on December 31, 1949. In 1949, approximately 97 acres of Former Camp Hero was transferred to the Department of the Air Force for an aircraft control and warning station. On January 24, 1951, the former Camp Hero was withdrawn from surplus and designated for use as a firing range and field exercise area for antiaircraft artillery from Fort Totten, NY. Arrangements were made for an Army cadre at the Camp and 90 mm and quad .50-caliber antiaircraft artillery began firing exercises from firing positions established in the southern bluff overlooking the Atlantic Ocean near Bunker 216. Tow target planes and radio controlled aircraft were utilized to gauge firing accuracy (later towed barges were also used). Due to limited facilities for the training units,

the units bivouacked at the Camp. Ammunition for training exercises, when required, was stored in the internal bunkers of the now unused Battery 216 (USACE 2000).

In 1952, the Air Force property was renamed the Montauk Air Force Station and was occupied by the Aircraft Control and Warning Squadron (ACWS). The Former Montauk Air Force Station portion of Former Camp Hero has been shown on Figure 1-1. Army unit training continued using 90 mm and 120 mm guns, 3.5-inch rockets, and .50 caliber guns until 1957. The facility was active until October 1958 when the ACWS was re-designated as the Radar Squadron with a new mission to provide surveillance data of air traffic in the area. In order to accomplish this mission, an advanced Specific Frequency Diversity Search Radar was built in late 1960 (Army-Navy/Fixed-Pulse Radar-Surveillance [FPS]-35 Radar Tower and Antenna).

Between 1974 and 1984, site lands were transferred to State, Local, and other Federal agencies and the ACWS facility was permanently closed in 1982. The area is currently operated by the NY State Office of Parks, Recreation, and Historic Preservation and is operating as Camp Hero State Park. The park landscape includes wooded areas, freshwater wetlands, and sea-side bluffs, complete with hiking trails and roadways leading to former military buildings, picnic areas, and recreational areas.

In 2002, the AN/FPS-35 Radar Tower and Antenna was listed under the National Register of Historic Places (NRHP). Camp Hero State Park as a whole is potentially eligible for listing on the NRHP, according to the NY State Historic Preservation Office.

1.2 Scope and Objectives

The RI technical approach consists of two phases of investigation, Phase I and Phase II. The Phase I investigation is intended to confirm either the presence or the absence of suspected CERCLA DoD waste at an AOC. A Phase II investigation will be conducted to define the nature and extent of the waste constituents at the AOCs where the presence of contamination above applicable screening criteria is established during the Phase I investigation.

This Phase I Field Report documents the Phase I RI activities at Camp Hero during May and June 2016. The objectives of this Field Report are to provide the following information:

- A summary of the Phase I RI activities at each AOC.
- Details on any significant deviations from the work plan that may have occurred.
- Raw data that was collected both in the field and from the off-site analytical laboratory.

1.3 Phase I Investigation Field Report Organization

This Field Report is organized into the following sections:

- Section 1.0: Introduction – provides an introduction to the project including the scope and objectives, installation background, and organization of this Field Report.
- Section 2.0: Technical Approach – provides the regulatory framework, description of the phased RI approach, descriptions of general field investigation operations, and information on data analysis and validation.
- Section 3.0: Background Sampling – provides the approach and results for the Camp Hero background soil sampling.
- Section 4.0: AOC Investigations – presents brief historical information, reason for concern, and the Phase I RI activities for each AOC at Camp Hero.
- Section 5.0: References – lists the references utilized in this Field Report.

The following appendices are included in this Field Report:

- Appendix A contains the figures referred to in this Field Report.
- Appendix B contains the tables referred to in this Field Report.
- Appendix C contains key correspondence with stakeholders prior to the field effort.
- Appendix D contains the Camp Hero Army Geospatial Center (AGC) Report. As part of this investigation, the Hydrologic and Environmental Analysis Branch of the Warfighter Support Directorate of the USACE ACG was tasked to search, collect, and review historical aerial photography from 1940 to 1982 searching for features associated with possible solid waste disposal areas within the former Camp Hero boundary.
- Appendix E contains the Camp Hero Geophysical Survey Report. Digital Geophysical Mapping (DGM) surveys were conducted at select AOCs in attempt to locate and identify subsurface historic infrastructure to streamline subsequent sampling activities. The Geophysical Survey Report presents the geophysical survey results and provides metal detection summary figures for each AOC investigated.
- Appendix F contains the Community Air Monitoring results. Continuous air monitoring was completed during Phase I RI activities downwind of the Geoprobe® rig during intrusive activities, in accordance with the modified generic NY State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP), Attachment 1A of the NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation.

- Appendix G contains the laboratory analytical data results, laboratory investigation-derived waste report, and the data validation reports.
- Appendix H includes contains the Daily Reports completed during Phase I RI Field work.
- Appendix I contains a Photograph Log of the Phase I RI activities and AOCs at Camp Hero.

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2.0 TECHNICAL APPROACH

2.1 Regulatory Framework

The RI work was conducted in accordance with CERCLA and the FUDS ER-200-3-1 (USACE 2004). New York State Department of Environmental Conservation (NYSDEC) is the lead regulator for this RI and will provide review and concurrence pursuant to CERCLA. The criteria established for constituents of concern in New York Codes, Rules, and Regulations (NYCRR) Subpart 375-6, "Remedial Program Soil Cleanup Objectives" will be utilized for screening criteria (NYCRR 2015a). For those areas of this project strictly addressing releases of fuels from formerly removed or used storage tanks, the following NYCRR will be applied: 6 NYCRR 613.9 (b), Closure of Tanks Permanently Out of Service (NYCRR 2015b) and NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation.

In accordance with NYSDEC policy CP-51, soil samples at suspected petroleum storage tank AOCs were analyzed for petroleum compounds by the NYSDEC Spills, Technology, and Remediation Services (STARS) list for either fuel oil or gasoline, which include volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and lead analyses (based on the suspected fuel type). Groundwater samples at suspected petroleum tank AOCs were analyzed for VOCs, SVOCs, and lead (based on the suspected fuel type). Soil and groundwater analyses at non-petroleum AOCs include a more comprehensive analytical list, depending on the concern at each AOC, which are detailed by AOC in Section 4.0.

- **Human Health Screening Criteria:** The project screening levels (PSLs) for soil are obtained from the following criteria: United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) for Residential Soil (USEPA 2016a), 6 NYCRR Part 375-1 Soil Cleanup Objectives (NYCRR 2015a), and NYSDEC CP-51/Soil Cleanup Guidance (NYSDEC 2010a). The PSLs for soil are the lowest of each of the criteria listed.

  The PSLs for groundwater are obtained from the following criteria: USEPA Regional Screening Level for Tap Water (USEPA 2016a), USEPA MCL criteria (USEPA 2016b), NYSDEC Technical & Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (NYSDEC 2004), and New York State Department of Health Maximum Contaminant Level (MCL) criteria (NYCRR 2011).

  In order to meet PSL data quality objectives, SVOCs in soil and groundwater were analyzed by Method 8270D with Selected Ion Mass Spectrometry (SIM).

- **Ecological Screening Levels:** Ecological screening level guidance and references are detailed in the RI WP. Data from the surface soil samples, as well as information from the

Phase 1 RI to assess surface water flow directions, wetlands, and ecological receptors, will be used to identify ecological data gaps to be addressed in the Phase 2 RI sampling. A summary of chemicals of potential environmental concern and the areas of concern where surface soil contamination was detected above the ecological screening criteria will be identified in the WP Addendum.

2.2 Phased Approach

The RI technical approach consists of two phases of investigation, Phase I and Phase II. The Phase I investigation was intended to confirm either the presence or the absence of suspected DoD waste constituents at an AOC. Based on Phase I findings confirming waste constituents at an AOC, a Phase II investigation will be conducted to define the nature and extent of the contamination.

- **Phase I RI:** The primary objective of the Phase I RI is to determine the presence or absence of contamination at the Camp Hero AOCs. Phase I RI activities included aerial photography archival research, digital geophysical mapping of subsurface anomalies, a botanical survey, Geoprobe® soil borings, piezometer and temporary well installations, and field sample collection. Sample collection for the Phase I investigation included surface soil [defined as soil between 0 to 1 foot (ft) bgs], subsurface soil (greater than 1 ft bgs), wipe samples of concrete and building materials, concrete chip samples, and groundwater sampling.

  The purpose of this Field Report is to summarize the Phase I field activities and provide the analytical data. The original Project Work Statement scoped the Field Report to provide all the raw data collected and details on any deviations from the work plan. The RI WP mistakenly added scope to the Field Report by indicating tables would be produced and recommendations would be made regarding which AOCs will be included in the Phase II investigation. A WP Addendum will be prepared to detail the Phase II investigation approach. The RI WP Addendum will be provided to the project team for review, comments, and concurrence. A technical review meeting will be conducted with the project stakeholders to obtain consensus with the proposed Phase II investigation activities.

- **Phase II RI:** For AOCs requiring further investigation, the primary objective of the Phase II RI is to determine the nature and extent of target constituents in soil and groundwater at the Camp Hero AOCs and to determine if there are unacceptable risks to human health and ecological receptors associated with exposure to AOC-related constituents.

  The Phase I RI sampling results will be used as a basis for determining the locations of Phase II samples and analyses in order to: 1) determine the nature and extent of contamination at the Camp Hero AOCs and 2) determine the concentration of a contaminant that may be contacted by a receptor at a site to conduct risk assessment. The Phase II data may include:

concrete chip samples, liquid samples from containers, surface soil (0 to 1 ft bgs), subsurface soil (greater than 1 ft bgs), surface water, sediment, and groundwater samples from temporary or permanent monitoring wells.

2.3 Coordination with Stakeholders

Project kick-off meetings were held to initiate coordination with stakeholders. Activities were coordinated with the Camp Hero State Park Superintendent, Mr. Tom Dess, to ensure activities did not impact park visitors or conflict with seasonal work restrictions. Additionally, activities were coordinated with the State Historic Preservation Officer and other interested parties and stakeholders, in accordance with Section 106 of the National Historic Preservation Act of 1996, as amended and 36 Code of Federal Regulations (CFR) 800. Appendix C of this Field Report contains key correspondence related to coordination with stakeholders.

The NYSDEC Natural Heritage and NYS Office of Parks, Recreation, and Historic Preservation (OPRHC) were consulted regarding Camp Hero RI activities, with particular focus on the botanical survey of rare and endangered species (see Section 2.4.3. below).

Coordination letters were submitted to the NYDEC Region 1 Office, the United States Fisheries and Wildlife Service (USFWS) New York Field Office, and the Shinnecock Nation regarding planned Camp Hero activities. The coordination letters indicated the USACE's intent to conduct a RI at the former Camp Hero, with the purpose of assessing if the former DoD activities may have results in adverse environmental conditions. The letters additionally explained the scope of the project and stated that care will be taken to minimize impacts to vegetation and local threatened and endangered species (see Appendix C). The NYDEC and the USFWS both indicated that they did not have any threatened or endangered species concerns for this project.

2.4 General Phase I Investigation Operations

The Phase I Investigation at Camp Hero included aerial photography archival research, digital geophysical mapping of subsurface anomalies, a botanical survey, Geoprobe® soil borings, piezometer and temporary well installations, and field sample collection. Details of each activity are provided in the sections below.

2.4.1 Aerial Photography Archival Research

As part of this investigation, the Hydrologic and Environmental Analysis Branch of the Warfighter Support Directorate of the USACE ACG was tasked to search, collect, and review historical aerial photography from 1940 to 1982 searching for site features which could be associated with solid waste disposal within the former Camp Hero boundary. Their report is included in this Field Report as Appendix D and contains a summary of potential disposal locations, along with a list of spatial data collected from 1940 to 1982 (USACE 2016). The report concluded that there was no

photographic evidence of debris accumulation suggestive of a solid waste disposal areas in the spatial data collected for this project. However, four areas were identified where solid waste disposal could have taken place, described as access points to cleared areas near or along the bluff. The four areas were designated "AGC Sites 1, 2, 3, and 4" for this RI. AGC Site 3 corresponds to the "Camp Hero State Park Bluffs" AOC, which was already established as an AOC as part of the RI investigation.

2.4.2 Digital Geophysical Mapping

Prior to the Phase I sampling activities, Digital Geophysical Mapping (DGM) surveys were conducted at select AOCs to locate and verify suspected underground storage tanks (USTs) and subsurface historic infrastructure to optimize sampling activities. DGM was conducted at the following AOCs:

- Suspected Tank A – Building 0020 – Fire Department, suspected former UST location(s)
- Suspected Tank B – Building 0022 – Kitchen/Office, suspected former UST location(s)
- Suspected Tank C – Building 0002 – Barracks, suspected former UST location(s)
- Suspected Tank D – Building 104R – Commissary, suspected former UST location(s)
- Suspected Tank E – Building 3001 – AT&T/Lilco, suspected former UST location(s)
- Suspected Tank F – Well Pump House, suspected former UST location(s), hazardous materials
- Suspected Tank G – Well Pump House, suspected former UST location(s)
- Fuel Pump House Distribution Line – distribution line from the Fuel Pump House (connected to AST-35) identified on historic drawings connecting to former Building 203
- Battery 216 – potential underground vaults, unknown use, potential storage
- Plotting Room 113 – waste area, potential storage or waste dump site

The intent of the geophysical surveys at each of the above sites was to: (a) verify the outline of a tank (if still exists), (b) identify the extent of residual subsurface features, and (c) examine the general vicinity to support safe subsurface sampling within close proximity to the structures.

The DGM field survey methods consisted of a combination of electromagnetic (EM) and magnetic (MAG) Analog Geophysical Mapping (AGM) metal detection surveys, at 5-ft increments, within the bounds of accessible areas of each pre-marked survey area. The DGM was completed using the Geonics EM61-MK2 instruments in relatively open areas, while AGM, using a Schonstedt® GA-72cd, was reserved for vegetated areas not accessible using DGM methods. After each sweep of the AOC

area, significant DGM instrument readings were relocated, marked, and annotated as to whether a surface feature coincides with the instrument reading.

Additional information is available in the Camp Hero Geophysics Report (Appendix E), which presents results and provides metal detection summary figures for each AOC investigated. Results are discussed by AOC in Section 4 of this Field Report.

2.4.3 Botanical Survey

A botanical survey for rare and threatened species at Camp Hero State Park was completed in May 2016, in conjunction with the Geophysical Surveys, prior to any vegetation removal activities. The NYSDEC Natural Heritage Program identified four rare plant species which have been historically reported within the Camp Hero RI project area, including: Little-leaf Tick-trefoil, Fringed boneset, Blunt mountain-mint, and Southern arrowwood.

Prior to the botanical survey field activities, the AECOM botanist researched the habitat requirements, phenology, critical diagnostic characteristics, and morphologically-similar congeners for the target plant species identified as potentially occurring in the vicinity of the Project survey area by the NYSDEC Natural Heritage Program. Botanical references and regional field manuals were consulted for the northeastern United States as well as Flora of North America.

During field preparation for the remedial investigation, each AOC and background soil sampling location was surveyed for the four rare plant species. If any rare plant species were identified, they were marked with red and white checkerboard flagging. The USACE and AECOM-Tidewater JV team was consulted to determine the best method to avoid destruction of any protected plants by subsequent investigative procedures, including brush clearing and use of heavy equipment.

The Camp Hero sites were surveyed by the AECOM botanist and USACE project ecologist in May 2016. Findings indicated that the upland forests consisted of a mixed hardwood canopy dominated by *Quercus* species. Also present in the canopy to a lesser degree were *Fagus grandifolia*, *Tilia americana*, *Nyssa sylvatica*, *Prunus serotina*, and *Acer rubrum*. The upland forest understory was dominated by *Hamamelis virginiana*, *Ilex opaca*, *Vaccinium corymbosum*, *Smilax rodundifolia*, and in some areas, *Viburnum dentatum* var. *venosum*. Forested wetlands were dominated by an *Acer rubrum* canopy with a *Lindera benzoin* and *Vaccinium corymbosum* understory.

Upland successional shrub lands were often dominated by *Morella pensylvanica*, *Amelanchier canadensis*, *Prunus serotina*, *Toxicodendron radicans*, *Vaccinium corymbosum*, and in some areas- *Viburnum dentatum* var. *venosum*. Many upland successional shrub land sites were also heavily infested with *Lonicera morrowii* and *Elaeagnus umbellata*.

Additionally, a few AOCs were located on anthropogenically-altered or regularly disturbed sites, including turf areas and hardscape which contained herbaceous weeds.

Regarding the four target rare plant species, the three herbaceous species, *Desmodium ciliare, Eupatorium torreyanum*, and *Pycnanthemum muticum*, were not encountered. It is likely that it was too early in the season for these three species to have emerged.

The fourth target rare plant species, *Viburnum dentatum* var. *venosum (*Southern arrowwood*),* was encountered with great frequency throughout Camp Hero; in some areas, it was co-dominate in the forested understory or upland successional shrub lands and it appears the population is stable and thriving. While all larger specimens were flagged, a small number of sites also had numerous seedlings that are almost impossible to avoid without employing extraordinary measures. In consultation with the NYSDEC Natural Heritage and NYS OPRHC, it was concluded that the destruction of a few seedlings during the course of further remedial investigation at Camp Hero would be acceptable in light of the large and stable population of *Viburnum dentatum* var. *venosum*. Copies of key correspondence with the OPRHC regarding the Southern arrowwood are included in Appendix C.

2.4.4 Field Sampling

Sample collection for the Phase I investigation included surface soil (defined as soil between 0 to 1 ft bgs), subsurface soil (greater than 1 ft bgs), concrete chip, and groundwater sampling. After sample collection and/or field screening, samples were transferred to the appropriate sample container for laboratory analysis and placed in a cooler on ice. The required sample containers, preservatives, and holding times were specified in the Uniform Federal Policy (UFP) Sampling and Analysis Plan (SAP), Attachment B to the RI WP (AECOM 2016). Sample locations were marked with a pin flag with sample identification number, photo-documented, and recorded with a hand-held global positioning system unit. The collected coordinates were utilized to produce sample location maps for this RI Field Report and are available for use in sample location mapping for future documents. The non-disposable sampling equipment (i.e., hand auger) was decontaminated between sample locations.

Surface and Near-Surface Soil: A clean (decontaminated) hand auger or disposable scoop was used to collect surface and near-surface soil samples. In some locations, the Direct Push Geoprobe® rig was used to collect a small, 5–foot core, from which the 0 to 1 foot surface soil sample was collected. As defined in the WP, surface soil samples were considered to be 0 – 1 ft bgs, where near-surface samples were considered to be 1 – 2 ft bgs. VOC samples were collected directly from the recently-exposed soil using a sampling corer (Terra Core kits). For the other analyses, the soil was removed and transferred to a disposable, re-sealable plastic bag and was

then homogenized, which consisted of mixing the soil until the sample is a uniform color, texture, and particle size. Any non-homogenous particles, organic matter, and debris were removed from the soil samples. Soil samples at pre-selected locations were field-screened with the PID while in the plastic bag prior to the homogenization of the soil. After sample collection and/or field screening, the sample was transferred to the appropriate sample container for laboratory analysis and placed in a cooler on ice.

Subsurface Soil: Subsurface soil samples were collected using a Direct Push Geoprobe® drill rig. A Geoprobe® dual-tube sampling system was used to collect continuous soil cores by advancing a 5-ft (60-inch) coring barrel fitted with the dedicated, disposable polyvinyl chloride (PVC) liners to the target depth, as established in the RI WP. Borings were either advanced to the depth of the perched water table or to 25 ft bgs, with the exception of the borings at AOC H-17, which were advanced to 35 ft bgs in an attempt to reach groundwater. Specific depths of the borings at each AOC are provided in Section 4.0.

Soil cores were screened for VOCs immediately upon opening the sleeve with a PID utilizing an 11.7 electron-Volt bulb. Screening results, lithologic descriptions, and other observations and measurements were recorded on a soil boring log by the field geologist. At a minimum, depth interval, recovery thickness, PID concentrations, moisture, relative density, color (using a Munsell soil color chart), and texture using the Unified Soil Classification System were recorded. Additional observations recorded may have included detectable odors, groundwater or perched water depth, organic material, cultural debris, or color changes indicating staining. Photographs were also taken of significant boring cores.

Two subsurface soil samples were generally be collected from each Geoprobe® location unless otherwise specified in the RI SAP. Samples were collected from depth intervals where field screening or observations (i.e., highest VOC concentration measured with the photo-ionization detector, odor, staining) indicated the potential presence of contaminants, the depth of the structure being evaluated, or at the depth of groundwater, as established in the RI WP. VOC samples were collected directly from the recently-exposed soil using a sampling corer (Terra Core kits). For the other analyses, the soil was removed and transferred to a disposable, re-sealable plastic bag and was then homogenized, which consisted of mixing the soil until the sample is a uniform color, texture, and particle size. Any non-homogenous particles, organic matter, and debris were removed from the soil samples.

Concrete Coring: Concrete coring was necessary prior to boring at locations with asphalt or cement. A 4-inch diameter core barrel was advanced through the concrete using a stand mounted core drill to

access soils for direct push sampling. Once drilling and sampling activities were finished, the core and lag holes were patched with concrete.

Groundwater Sample Collection from Temporary Wells (Grab Sample): Groundwater samples were collected from temporary wells installed during the DPT drilling activities at locations where groundwater was encountered in the borings. If groundwater was encountered at the location, a Peristaltic Geopump with disposable tubing was used to collect a grab groundwater sample. A YSI 6920® water quality meter with a multi-parameter cell was used to obtain one set of groundwater parameter readings after the grab sample was collected, if sufficient groundwater was left in the well. Water quality parameters included temperature, pH, specific conductivity, dissolved oxygen, reduction-oxidation potential, and turbidity.

Recharge in some wells was insufficient to collect the required volume for all planned analyses. Multiple attempts were made to sample these wells and the collected volume was submitted for laboratory analysis of a shortened analyte suite, if all bottleware could not be filled. If within 24 hours, groundwater recharge had not produced any water in the temporary well, no groundwater sample was collected during Phase I.

Concrete Chip Samples: The surface of the sample location was broken up using a rotary hammer drill with a decontaminated 1-inch bit. Multiple holes up to 2 centimeters (cm) in depth were created within the sampling area, in order to fill the full 8-ounce (oz) required volume. An effort was made to avoid scattering pieces out of the general sampling area. The chipped/pulverized concrete pieces and powder were collected using dedicated gloves and transferred directly into the laboratory-provided sample container.

Wipe Sampling for polychlorinated biphenyls (PCBs): Prior to sampling, the gauze pad was saturated with hexane. A 10 cm × 10 cm sample area was prepared at the sample location. The sample area was thoroughly wiped from left to right and again from top to bottom. Once the area had been wiped, the gauze pad was placed back into the sample jar and allowed to air-dry prior to sealing the jar.

Sample Identification. The sample identification numbers consisted of an alphanumeric designation related to the AOC, event, media type, and consecutive number, according to the following conventions:

AOC Identification (ID): **203** = Building **203** *(see Table 2-1 for AOC IDs)*
Location ID, which consists of:
Media Type: **SB** = **S**urface **B**oring *(see Table 2-1 for Media Type Codes)*
Consecutive Number: 01, 02, 03, etc.

For groundwater samples, "-GW" at the end of the location ID
For soil samples, depth of sample (in ft): 01, 02, 03 etc.

For example, the sample identification number for the first soil boring sample collected at Building 203 from 2 to 3 ft bgs was 203-SB01-03. The sample identification number for the groundwater sample collected from the same boring was 203-SB01-GW. Duplicate sample identification numbers were followed with a "DUP". MS sample identification numbers were followed with a "MS" and MSD sample identification numbers were followed with a "MSD."

Sample Handling, Storage, and Shipment: Samples were collected into laboratory-supplied bottleware and placed in a cooler on ice. Sample times, dates, and analyses were recorded on boring logs, field sample forms, and field team logbooks. Samples were then quality-control checked by the site Sample Manager and recorded on chain-of-custody (COC) records prior to being packed in coolers on fresh ice and transported daily via overnight commercial carrier to the laboratory. Original COCs were included in the coolers with their respective samples; carbon-copies of the COCs were kept on-site by the Sampler Manager and emailed to the laboratory and project chemist each night, along with tracking numbers for the shipped coolers.

Water Level Measurement: Water level measurements were collected from temporary wells prior to the collection of samples using an electric measuring tape. Additionally, three piezometers were installed in the vicinity of former Building 203 to obtain information on the direction of groundwater flow. The piezometers were constructed as standard PVC wells with filter-pack and a bentonite seal, as necessary, but were not grouted in place. No analytical samples were collected from the piezometers.

Borehole and Temporary Well Abandonment: DPT borings and temporary wells were abandoned at completion of sampling activities. The PVC pipe was removed and backfilled with sand at the locations with temporary wells, whereas borings in grass or sand were abandoned by backfilling with bentonite chips. Borings in asphalt or concrete were abandoned by backfilling with bentonite chips to approximately 6 inches bgs, and the remainder of the borehole was patched with asphalt cold patch or hydraulic concrete. The surface at each location was restored to match the surrounding area.

Temporary wells at AOCs AST-35, FPH, and former Building 203 (including the piezometers) were left in place with the permission of the USACE and NYS Parks Service. These temporary wells are located in gated areas off-limits to the public and may need to be utilized due to the discovery of free product at former Building 203.

2.4.5 Anomaly Avoidance

An Unexploded Ordnance (UXO) Probability Assessment for Intrusive Investigation at Former Camp Hero completed by USACE Baltimore District determined that the Camp Hero RI activities had a low probability of encountering munitions and explosives of concern (MEC), except for areas H and K, which would not be entered at any point during RI field activities. However, as a precautionary measure, anomaly avoidance was conducted in accordance with EM 385-1-97 by a UXO Technician II during intrusive Phase I RI activities with a hand-held magnetometer. "Anomaly avoidance" is defined as the avoidance of surface MEC and any subsurface anomalies where the specific activity can be moved to another location.

Additionally, all field personnel, including AECOM-Tidewater JV employees and subcontractors, completed Ordnance Recognition Training prior to the start of field activities.

2.4.6 Community Air Monitoring

Continuous air monitoring was completed downwind of the Geoprobe® rig during intrusive activities, in accordance with the modified generic NYSDOH Generic CAMP, Attachment 1A of the NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation. The CAMP establishes air monitoring activities that were to be implemented to protect the community from any potential airborne releases that could result from field activities associated with the RI or interim remedial action efforts, as necessary (NYSDEC 2010b). No exceedances were observed during Phase I RI activities. Data from Phase I RI air monitoring are included as Appendix F to this Field Report.

2.4.7 Surveying

The horizontal and vertical position of temporary well locations were surveyed to a horizontal accuracy of 0.1 ft and a vertical accuracy of 0.01 ft. However, no permanent benchmark was available near RI activities in Camp Hero State park; therefore, the vertical positions were based on an arbitrary benchmark of 80 feet at the 1st well surveyed (H17-SB01), near the Commissary Building). Surveyed locations were collected relative to an initial arbitrary benchmark with the following exceptions: Building F100C (UST 34) locations F100C-SB01 and F100C-SB02 and Waste Disposal System locations WDS-SB01, WDS-SB02, and WDS-SB03. The vertical position of temporary wells at these AOCs were surveyed relative to the other temporary wells within the AOC. The temporary wells at these two AOCs were not surveyed relative to the Phase I arbitrary benchmark (H17-SB01) due to their "remote" location relative to the other AOCs. The vertical positions of the temporary well locations and depth to groundwater data were utilized to estimate the direction of groundwater flow at each AOC. A surveyed benchmark with known elevation will be acquired by licensed surveyors during permanent monitoring well installation as part of the Phase II investigation.

2.4.8 Investigation-Derived Waste (IDW) Management:

AECOM-Tidewater JV managed IDW generated during the Phase I field activities pursuant to applicable Federal, State, and local regulations and guidance, including the USEPA Management of Investigation-Derived Wastes during Site Inspections (USEPA 1992), USACE guidance (2013), and NYSDEC Technical Guidance for Site Investigation and Remediation (2010b).

In accordance with NYSDEC Technical Guidance for Site Investigation and Remediation (2010b), soil cuttings and purged groundwater were disposed at the site within the corresponding borehole to within 24 inches of the ground surface with the remainder of the borehole filled with bentonite. An exception to this was when volatile organic field screening instruments detected measurements from soil or groundwater that were above background or visual discoloration of soil or olfactory evidence of contamination were noted. In general, minimal groundwater IDW was generated as most of the purged groundwater was utilized for analytical samples.

IDW was stored in 55-gal drums, which were properly labeled indicating the generator, contact information, contents, and date of generation. The drums were stored at the Camp Hero State Park Motor Pool building, with the permission of State Park Superintendent Mr. Tom Dess. Analytical samples of both the soil and liquid IDW were collected on 20 September 2016 and submitted to RTI Laboratories for hazardous waste determination, including Toxicity Characteristic Leaching Procedure (TCLP). Both soil and liquid IDW were determined to be non-hazardous. Table 2-1 (Appendix B) presents the IDW analytical results compared to TCLP regulatory levels (40 CFR § 261, 1993). The analytical laboratory package of results from the liquid and solid IDW samples are included in Appendix G.

2.5 Quality Assurance/Quality Control Samples

Quality assurance/quality control (QA/QC) samples were collected to ensure field and laboratory protocols resulted in consistent and valid data. The following types of QA/QC samples were collected:

Field Duplicates: One additional set of sample containers were collected along with the normal sample. The duplicate was analyzed as a normal sample at the laboratory. Duplicates were collected at a frequency of one duplicate per ten samples.

Matrix Spike/Matrix Spike Duplicates (MS/MSD): Two additional sets of sample containers were collected along with the normal sample. A Matrix Spike and Spike Duplicate (MS/MSD) are representative but randomly chosen samples with known concentrations of analytes of interest added to the samples prior to sample preparation and analysis. They are processed along with the same un-spiked sample.

Equipment Blanks: One equipment blank was collected from the hammer drill used to collect the concrete chip samples. The equipment blank was collected by pouring Type II deionized water over the decontaminated drill bit and collecting the water in the appropriate sample containers.

Trip Blanks: Trip blanks for VOC analysis were provided by the laboratory. One trip blank was included in each cooler with VOC samples for VOC analysis.

2.6 Data Validation

Data validation was conducted on the Automated Data Review (ADR) output for the Phase I analytical data. All analytical data packages were validated to ensure compliance with specified analytical, QA/QC requirements, data reduction procedures, data reporting requirements, and required accuracy, precision, and completeness criteria. This includes, but is not limited to, the following:

- Sample preservation and holding times;
- Blanks (method and rinse);
- Matrix spikes and spike duplicates;
- Laboratory and field sample duplicates;
- Surrogates; and
- Laboratory control samples.

Analytical results were assessed for accuracy and precision of laboratory analysis to determine the limitations and quantity of data. The quality of the data collected in support of the sampling activity was considered acceptable.

The data validation process assigned data qualifiers to results that did not meet specified laboratory protocols but were still considered acceptable via the data validation process. Some data that required qualifiers included samples which were subject to cooler delivery issues resulting in samples arriving out of temperature, samples exceeding specified hold times, and samples requiring multiple dilutions for the SIM PAH method. Samples falling within these qualification scenarios are detailed below.

Sampling and Cooler Delivery Issues. The cooler containing sample H17-SB02-GW was received outside temperature (at 22°C) due to delayed delivery via Federal Express package delivery company. For the VOC analyte group, non-detect results were qualified “R” (rejected value) and the detects were qualified “J” (estimated value). All other analytes in the sample (SVOCs and PCBs) were qualified “J” (estimated value) for detected values and “UJ” (value under detection limit; estimated value) for non-detected values. Samples H14-SB01-GW, H14-SB03-GW, and MP-SB03-

GW were also received outside temperature due to a cooler delivery delay; however, the samples were recollected at a later date and the recollected samples were delivered to the laboratory without temperature or hold time concerns and no results required qualification.

Hold Time Issues. Several Camp Hero samples were qualified due not meeting the recommended method hold times, as detailed in Table 2-2 (Appendix B). Analyte detects were qualified "J" (estimated value) and non-detected values were qualified "UJ" (value under detection limit; estimated value) in the samples.

Multiple Dilutions for PAH SIM method. Multiple dilutions were required for some samples utilizing the SIM PAH analysis. These samples had compounds that were being reported over calibration. The laboratory had to run several dilutions to capture concentrations within the calibration range. Some of the samples had to be analyzed three times. Data from all dilutions were evaluated and compound results were reported from the lowest dilution that exhibits lack of interference.

For example, samples FPH-SB02-GW, FPH-SB03-GW, FPH-SB04-GW, and FPH-SB04-GW DUP were run for several SIM PAH dilutions, as well as regular PAH Method 8270. Due to the very high dilutions in SIM PAH, results were reported from the regular PAH Method 8270.

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3.0 BACKGROUND SAMPLING

Background soil samples were collected in Phase I to establish park-wide background levels for naturally occurring constituents and anthropogenic impacts. A total of 62 background soil samples (30 surface and 32 subsurface) were collected from four different locations (BG-01 through BG-04) representing two different soil types, Whitman Sandy loam (outwash deposits of stratified sand and gravel) and Montauk loam (glaciofluvial deposits of stratified sand and gravel in forms of kames). These two soil types represent the soil types where most of the Camp Hero RI AOCs are located, excluding urban soil complexes, which are not representative of background conditions. A soil survey map of Camp Hero is included as **Figure 3-1** (Appendix A).

Background samples were analyzed for metals and polycyclic aromatic hydrocarbons (PAHs) by method 8270D in SIM mode. PAHs were included in the background analysis because they may be ubiquitous to the environment and may be derived from non-anthropogenic and anthropogenic influences not directly related to former military activities at Camp Hero.

Phase I Background Field Operations. A total of 16 soil borings were advanced for background sampling. Eight borings were located in the Whitman Sandy Loam (4 borings at 2 locations) and eight borings were located in the located in the Montauk Loam (4 borings at 2 locations). Sample locations were spaced a minimum of 25 ft apart. Borings were advanced to 10 ft bgs or the depth of the perched aquifer, whichever was encountered first. Two subsurface soil samples were collected per boring: 4 to 5 ft bgs and 9 to 10 ft bgs or 1 to 2 ft above the depth to ground water, whichever was encountered first. One surface soil sample was collected from 0 to 1 ft from each boring. Fourteen additional surface soil samples were collected between the four background locations. All four background soil sampling locations are shown on the site map (**Figure 1-2**) and individual background location maps are provided as **Figures 3-2**, **3-3**, **3-4**, and **3-5**, respectively (Appendix A).

Per this methodology, the sample sizes for the background soil samples are as follows:

- n = 15 for surface soil in Montauk Loam (at locations BG-02, BG-04)
- n = 15 for surface soil in Whitman Sandy Loam (at locations BG-01, BG-03)
- n = 16 for subsurface soil in Montauk Loam (at locations BG-02, BG-04)
- n = 16 for subsurface soil in Whitman Sandy Loam (at locations BG-01, BG-03)

The location and need for groundwater, sediment and surface water background data, and the methods that will be used to determine whether site concentrations are within background levels for these media, will be defined in the RI WP Addendum prior to Phase II sampling.

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4.0 AOC INVESTIGATIONS AND RESULTS

The AOCs investigated as part of the Phase I RI were a combination of sites previously identified in the 1998 Camp Hero FS (Cashin 1998) and others identified during the 2016 records review conducted in preparation of the RI, as described in the Phase I RI WP (AECOM-Tidewater JV, 2016). The locations of the AOCs are shown on the Site Map in **Figure 1-2**. Groundwater elevations across the facility are presented in **Figure 4-1**.

Analytical results from the Phase I sampling are provided in Appendix G (Laboratory Analytical Reports). Tables with analytical results compared to PSLs will be provided as part of the WP Addendum for those AOCs included in the Phase II sampling, and in the final RI Report for all AOCs. The field operations and results for the Phase I Investigation are provided for AOC in the subsections below and also documented in the Daily Reports (Appendix H). **Table 3-1** (Appendix B) provides a summary of the Phase I investigation activities and the analytical samples collected at each AOC. Photographs of the AOCs are included in the Photograph Log (Appendix I).

4.1 Battery 113

Battery 113 has historically been referred to as Bunker-1 and Battery Dunn. Battery 113 historically contained two 16-inch casemated guns and battle allowances of ammunition and powder charges were stored within the battery. Battle allowances of ammunition and powder charges for the Camp Hero battery guns were stored within the individual batteries of the camp. The Camp Hero FS (Cashin 1998) noted a cluster of tanks of various sizes and shapes inside Battery 113, the prior purpose of which is unknown. These included two cylindrical red-painted tanks suspended from the wall; three vertical tanks standing on the floor, which have heavily rusted exteriors; and what was suspected to be one or more tanks in a wooden enclosure on the floor. These tanks were thought to be part of a single system, or multiple systems, possibly including fire suppression, hydraulic fluids, emergency water supply, or emergency fuel supply. Waste drums were also noted. During the records review of archived NY State Park Service drawings of Battery 113, the two cylindrical red-painted tanks suspended from the wall are identified as 150 gallon diesel fuel tanks.

Additionally, the Cashin Report notes Battery 113 to have had oil staining under electrical equipment in the old electrical room. This location was sampled for PCBs, and results showed a PCB level of 24,200 ppb (Cashin 1998).

Phase I Field Operations: A site survey of Battery 113 was conducted during Phase I field activities to identify the presence of tanks and waste drums, assess if standing water was present in pits, and identify visual evidence of potentially PCB-contaminated stained concrete. Prior to entering the building, the team conducted demolition of the sealed entryway to Battery 113 to create an entrance for the team, using a hammer drill and sledge hammer. Four team members

entered the battery to complete the survey. Team members wore tyvek suits, rubber booties, nitrile gloves, full or half-face respirators with P100/OV cartridges, hardhats, and head lamps. The buddy system was utilized while inside the Battery and at least one team member was stationed outside the entrance of the Battery at all times.

Two sub-slab pits with standing water were observed in Battery 113. Additional pits, open manholes, and trenches were observed throughout the Battery, but no others contained standing water. One liquid characterization sample was collected from one of the open pits (B113-LC02-01) for laboratory analysis of VOCs, SVOCs, PCBs, and metals. A second sample was not collected from the other pit with water because it appeared to contain human waste.

The Power Room was identified during the site survey and two diesel storage tanks (identified as 150-galllon Tanks 3 and 4 in site records) were still present on the wall in good condition. No labels were present on the tanks. The field team was able to determine that fluid was still present in the Tanks and one liquid characterization sample (B113-LC01-01) was collected for fuel analysis, ignitability, and toxicity for purposes of disposal characterization. Approximately 16 L of volume was collected for fuel characterization and volume was still present in the tanks; however, the field team could not determine the remaining volume in the tanks. A level meter was present on the wall adjacent to the tanks, which indicated the tanks volume was 3/4 full; however, the field team could not verify the meter's purpose or whether it was still working.

Three extremely rusted, unlabeled cylinders were present below Tanks 3 and 4; however, the cylinders appeared to be empty. Additionally, trenches with piping were present in the Power Room; some of the trenches were covered with metal plate covers and others were covered with wooden planks. The wooden planks were rotting and falling apart in most places. No tanks or storage units were observed in the trenches. Additionally, the Cashin report had mentioned drums present in the power room near Tanks 3 and 4 (Cashin 1998), however, no drums were present in the Power Room at the time of the field survey.

An electric room on the North side of the Power Room was identified, containing portions of a former transformer labeled as Marcus Transformer Company, Inc., and four severed single conductor electric breakout cables mounted on the wall. Dried oil was observed on parts of the transformer carriage and oil staining was noted on the concrete floor in this area. One wipe sample (B113-WP01-01) was collected from the oil-stained surface and one concrete chip sample (B113-CC01-01) was collected at the location of the stained concrete, using the hammer drill with a decontaminated drill bit. Additionally, an equipment blank was collected from the decontaminated drill bit after sampling. The wipe sample, concrete chip sample, and equipment blank were submitted for laboratory analysis of PCBs.

Phase I sampling locations at Battery 113 are shown on **Figure 4-2**.

Deviations from the RI WP: Per the RI WP, if liquid was present in the tanks or drums in Battery 113 during the site survey, a liquid characterization sample was to be collected for VOCs, SVOCs, PCBs, and metals at RTI Laboratories. Because the liquid present in the Battery 113 tanks appeared to be weathered fuel, samples were instead collected for fuel analysis (ignitability and toxicity) for purposes of disposal. Samples were submitted to AB Environmental (Bohemia, NY) via subcontract with CGE.

4.2 Battery 112

Battery 112, also known as Bunker-3, is also associated with UST 36 and UST 37, which were located outside the battery. Battery 112 consisted of two 16-inch casemated guns and battle allowances of ammunition and powder charges were stored within the battery. Battle allowances of ammunition and powder charges for the Camp Hero battery guns were stored within the individual batteries of the camp. Battery 112 had a battle allowance of 200 16-inch 2,240-lb projectiles.

The Cashin Report noted that the "as-built" plans for Battery 112 show that the floor plan for Battery 113 and Battery 112 (Bunker 3) are identical; however, no tanks or waste drums were observed in Battery 112 in the Cashin Report.

Phase I Field Operations: A site survey was recommended in the RI WP to confirm that ASTs are not present in Battery 112 and to complete a visual inspection for evidence of PCB-contaminated stained concrete.

Deviations from the RI WP: It was noted in the Project Kick-Off Meeting in October 2015 that Battery 112 is sealed and access inside the building was not feasible. Access to Battery 112 was assessed during the Phase I field operations; however, Mr. Tom Dess, NY State Park Superintendent, indicated that the building was completely sealed and that safe access was not available, and therefore the site survey was not completed.

4.3 Building 107

Building 107 is also known as Building 5 (Cashin Report) or the Electrical Substation. The Cashin Report noted that transformers were in the basement of the building and may have contained or contain PCBs. Archive pictures of Building 107 show multiple electrical conduits in a concrete trench with metal covering that extended to the power generating building 203.

In an August 2000 environmental assessment, a stained area was noted in the northeast comer of the basement of Building 5, which was three feet by five feet in area. At that time, there was an opening to the outside approximately three to four feet above the floor. No floor drains were

observed in the basement where the four transformers are still mounted on the wall. A concrete chip sample was collected from the stained area (Weston 2000).

Analytical results indicated that PCBs were present within the observed oil stain at a level above the Toxic Substances Control Act (TSCA) unrestricted use limit of 1 milligram per kilogram (mg/kg). Based on the depth of the PCBs in the concrete, it appeared that the oil had not migrated outside the building at that time. The findings indicated that no significant ecological or human health threats existed via migration.

Phase I Field Operations: Access to the basement of Building 107 was available for the field team upon arriving on-site; a hole was present in the Northeast corner of the building. The field team performed a visual survey Building 107. Parts of the wall-mounted transformer were still present in the basement. The field team attempted to verify if fluids are present in the transformers but was not able to open the pieces of the transformer which were still present. However, dried oil was running down the side of the wall-mounted portions of the transformer and minimal staining was noticed on the concrete. Three samples were collected for analysis of PCBs: one sample of the dried fluid (107-LC01), one wipe sample on the surface of the stained transformer (107-WP01), and one concrete chip sample within the stained area (107-CC01). The Phase I sampling locations at Building 107 are shown on **Figure 4-3**. The integrity of the original building was not be impacted during the sampling effort.

Deviations from the RI WP: None.

4.4 Building 201

Building 201 is also known as Building 1 (Cashin Report), Building #P-201, the Radar Tower, and AN/FPS-35. Building 201 is a 5-story radar tower with 2-foot thick concrete walls and was sealed off by USACE and NYS Parks to prohibit entrance. The building has a large steel radar dish, which was a prime component of the DoD early detection radar systems. Building 201 was associated with UST 20, which was removed and included in NYSDEC Spill Report #93-12038.

The Cashin Report recommended further investigation for possible oil leaks and PCB releases. In an August 2000 Data Collection Report (Weston 2000), the first floor of the Radar Tower contained a stained area, which was approximately four feet by six feet in area. The stained area was present below several pipes extending from the ceiling labeled "refrigerated water return." The stained area was reported as not darkly stained and adjacent to a six-inch diameter floor drain. The concrete was not stained below 0.5 inches. One chip sample (from the stained area), four surficial soil, and one subsurface soil sample was obtained at the Radar Tower for PCB analysis (Weston 2000).

PCBs were detected in the surface soil only at sample location (SS-14) at the Radar Tower. Aroclor 1254 was detected at 1.4 mg/kg, which is just above the TSCA unrestricted use limit of 1 mg/kg. Based on the data provided in the 2000 report, the area of contamination appears to be minimal, as no PCBs were detected above the regulatory criteria in adjacent samples collected within 50 ft of that location (Weston 2000).

Additionally, analytical results indicated that PCBs were present within the observed concrete oil stain at a level above the TSCA unrestricted use limit of 1 mg/kg in the Radar tower. Based on the depth of the PCBs in the concrete, it appeared that the oil had not migrated outside the building. The findings indicated that no significant ecological or human health threats existed via migration. Weston recommended that the stains addressed by concrete removal, painting, or controlling building access (Weston 2000).

A structure adjacent to the Radar Tower was also noted in the Data Collection Report, which appeared to be a cesspool. A cesspool was also identified on sanitary drawings obtained during the records research for this RI WP.

In 2002, the Radar Tower was listed on the National Register of Historic Places through the Department of the Interior. The NY State Office of Parks, Recreation, and Historic Preservation and the Department of Interior were contacted prior to beginning the Phase I investigation at this AOC. Sampling at this located was minimally-invasive during Phase I to ensure the preservation and conservation of the Radar Tower and Antenna.

Phase I Field Operations: One Geoprobe® boring was conducted adjacent to the former Radar Tower cesspool to 25 ft bgs. Water was not encountered in the boring. The soil core was screened with a PID; no readings above 0.0 parts per million (ppm) were observed and there were no visual indicators of staining. Two soil samples were obtained from the boring, from 9 to 10 ft bgs and from 24 to 25 ft bgs, and submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals, which may have been released to the cesspool from historic activities at the Radar Tower.

A temporary well was placed in the boring with a 10-foot screen; however, the well was dry upon gauging four days later and a groundwater sample could not be collected. The Phase I sampling location at Building 201 is shown on **Figure 4-4**.

Deviations from the RI WP: A site survey of the bottom floor of the Radar Tower where transformers and staining was observed during previous assessment (Weston 2000) was proposed in the RI WP. However, safe access inside the Radar Tower was not available during Phase I RI activities. Mr. Tom Dess, NY State Park Superintendent, indicated that the building was completely sealed, the structures and stairwells inside are not stable, and he did not believe it is safe for

anyone to enter. As such, a site survey inside the Radar Tower was not completed and the proposed PCB wipe sample was not collected.

4.5 Battery 216

The Records review revealed concern for potential buried metal debris, unknown USTs, or underground vaults around Battery 216. The RI WP recommended a geophysical survey around the building and Geoprobe® borings if underground anomalies were identified.

Phase I Field Operations: A geophysical survey was conducted around the Battery to confirm the absence or presence of underground anomalies. The geophysical survey results indicated mostly debris or infrastructure, as identified on the geophysical survey map in Appendix E. No responses of significant size to be considered vaults or storage facilities or unique features which would require new sampling locations were identified. No borings were advanced and no environmental samples were collected.

Deviations from the RI WP: None.

4.6 Plotting Room 113

Records review revealed concern for potential buried metal debris or unknown USTs around Plotting Room 113. The RI WP recommended a geophysical survey around the building and Geoprobe® borings if underground anomalies were identified.

Phase I Field Operations: A geophysical survey was conducted around Plotting Room 113 in May 2016 to confirm the absence or presence of underground anomalies. The geophysical survey results indicated a potential waste area on the north side of the building, with concentrated subsurface metal debris, as identified on the geophysical survey map in Appendix E.

In June 2016, three borings were conducted to the depth of the perched aquifer within the subsurface anomaly area (P113-SB01 through -SB03). The soil cores were screened with a PID; no readings above 0.0 ppm were observed. Two soil samples were collected per boring from P113-SB01 and -SB02: one from the upper portion and one just above the soil-groundwater interface. Only one sample was collected from P113-SB03 because the groundwater was encountered at 1 ft bgs. Soil samples were submitted for laboratory analysis of the NYSDEC STARS lists for fuel oil and gasoline VOCs, SVOCs, and lead.

A temporary well was installed in each boring. One grab groundwater sample was collected from each boring and submitted for laboratory analysis of VOCs, SVOCs, and lead. Phase I sampling locations at Plotting Room 113 are shown on **Figure 4-5**.

Deviations from the RI WP: None.

4.7 Building 2010 (UST 30)

Building 2010 was formerly operated as a groundwater supply well pump house. The well house contained a power generator for groundwater pump operation which was connected to UST 30. A 100-gallon gasoline UST was removed from the southeast corner of Building 2010 in October 1993. The excavation was 4.5 ft by 7 ft by 4.5 ft deep. The NYSDEC Tank Removal Form indicated that no release had occurred from the UST. Low levels of petroleum were detected in soil samples from the excavation; however, lead was reported to be as high as 600 ppm (NYSDEC Tank Removal Form, December 1994).

Phase I Field Operations: To determine the presence or absence of lead in soil and groundwater, two Geoprobe® borings (2010-SB01 and -SB02) were advanced adjacent to the former 100-gallon UST excavation at the southeast corner of Building 2010 to a depth of 7 ft bgs. Four soil samples were collected from each boring, from the 0 – 4 ft bgs, 4 – 5 ft bgs, 5 – 6 ft bgs, and 6 – 7 ft bgs intervals, for laboratory analysis of lead.

A temporary well was set in 2010-SB02 and a grab groundwater sample was collected for laboratory analysis of lead. Phase I sampling locations at Building 2010 are shown on **Figure 4-6**.

Deviations from the RI WP: A temporary well was not placed at 2010-SB01 and thus a groundwater sample was not obtained from this boring; the on-site USACE and AECOM geologists agreed that the formation was too tight to produce sufficient water for sample collection.

4.8 Building F100C (UST 34)

Building F100C has previously been referred to in the Cashin Report as Building 40 and formerly operated as a groundwater well supply pump house. UST 34 was a 275 gallon gasoline tank removed from the south side of Building F100C in October 1993. Ten yards of petroleum-impacted soil was removed from around the UST at that time. Low levels of petroleum were detected in soil samples from the excavation and lead was reported to be as high as 549 ppm (NYSDEC Tank Removal Report, December, 1994).

Phase I Field Operations: To confirm the presence or absence of lead above regulatory concentrations in soil and groundwater, two Geoprobe® borings were advanced immediately adjacent to the former 100-gallon UST excavation at the south of Building F100C to a depth of 7 ft bgs. Four soil samples were collected from each boring, from the 0 – 4 ft bgs, 4 – 5 ft bgs, 5 – 6 ft bgs, and 6 – 7 ft bgs intervals, for laboratory analysis of lead.

Temporary wells were set in the borings and one grab groundwater grab sample was collected from each boring for laboratory analysis of lead. Phase I sampling locations at Building F100C are shown on **Figure 4-7**.

Deviations from the RI WP: None.

4.9 AST-35 (H-13)

One aboveground storage tank (AST) at Camp Hero (AST-35, also identified as H-13 in the Cashin Report) did not have complete closure documentation at the time of records review. The H-13 location was identified in the Cashin Report as a sewage holding tank; however, the Cashin Report and archive drawings indicated that a 200,000-gallon diesel fuel AST was located at this site (Cashin 1998). The archive research indicated that there was a 1,000-gallon release from this tank; however, the available documentation is incomplete.

Phase I Field Operations: Four Geoprobe® borings (AST35-SB01 through -SB04) were advanced to 10 ft bgs (just past the depth of the perched water table) around the concrete containment unit for the former AST, in compliance with 6 NYCRR 613.9(b). The soil cores were screened with a PID; no readings above 0.0 ppm were observed. However, elevated PID readings were observed at the adjacent Fuel Pump House (FPH) AOC (see below). Two soil samples were collected from each boring above the groundwater-soil interface. Soil samples were submitted for laboratory analysis of petroleum compounds by the NYSDEC STARS list for fuel oil VOCs and SVOCs.

A temporary well was installed in each boring and one groundwater sample was collected from each boring for analysis of VOCs and SVOCs. Phase I sampling locations at AST-35/H-13 are shown on **Figure 4-8.**

Deviations from the RI WP: The RI WP recommended that one of the four Geoprobe® borings were to be located within the containment unit of the former AST. However, access inside the containment wall was not available for the Geoprobe® rig, and the four borings were conducted around the accessible portions of the containment wall.

Additionally, the RI WP proposed two piezometers upgradient and downgradient of AST-35 to determine groundwater flow direction around AST-35, the FPH, and Building 203. However, piezometers were not needed within in the AST-35 AOC because the temporary wells installed at AST-35 and the FPH provided sufficient coverage of the area. However, three piezometers were installed at the Building 203 AOC to assist in determining groundwater flow direction.

4.10 Fuel Pump House and Distribution Line for AST-35

Archive drawings indicated that a fuel pump house is located on the northwest side of the former AST-35 pad and that a fuel line may have extended from the former AST-35 location to the former generators at Building 203. No additional information about the fuel line is available. During the January 2016 site walk, fuel odor was noticed inside the Fuel Pump House.

Phase I Field Operations: A geophysical survey was conducted around the fuel pump house in May 2016 to confirm the absence or presence of the fuel pipeline. The geophysical survey results identified the fuel pipeline extending southwest from the fuel pump house, as shown on the geophysical survey map in Appendix E. In June 2016, the fuel pump house distribution line was further traced with a hand-held magnetometer. Hand digging along the distribution line confirmed that the distribution line had been cut and removed after approximately 6-feet from the fuel house. Soil excavated from around the existing fuel line did not indicate noticeable staining or petroleum odor.

Four Geoprobe® borings (FPH-SB01 through -SB04) were conducted to 10 ft bgs around the FPH building and remaining portion of the distribution line, in compliance with 6 NYCRR 613.9(b) (NYCRR 2015b). The soil cores were screened with a PID; elevated PID readings were observed at locations FPH-SB02 (maximum of 13.0 PPM) and FPH-SB04 (maximum of 203 PPM). Water was encountered between 1 ft bgs and 5 ft bgs in the borings; two soil samples were obtained from each boring above the soil-water interface. Sample intervals were biased to depths where there were elevated PID readings or visual indicators of staining were observed. Soil samples were submitted for laboratory analysis of petroleum compounds by the NYSDEC STARS list for fuel oil VOCs and SVOCs.

A temporary well was installed in each boring and one groundwater sample was collected from each boring for analysis of VOCs and SVOCs. Petroleum odor was observed in the purge water from all four temporary wells. Phase I sampling locations at the FPH and Distribution Line for AST-35/ H-13 are shown on **Figure 4-9**.

Deviations from the RI WP: The RI WP proposed nine soil borings at the FPH (three at the building, six along the distribution line to Building 203), at locations based on the results of the geophysical survey. However, because the fuel pipe was cut approximately 6 ft from the FPH, only four borings were conducted around the FPH and the remaining portion of the fuel line.

Additionally, the RI WP proposed that one of the borings would be conducted inside the FPH. However, access inside the FPH was not available and the Geoprobe® rig would not have been able to clear the ceiling of the FPH if access had been available. Therefore, borings were not completed inside the building but relocated immediately adjacent to the building.

4.11 Building 203

Former Building 203, the former power building, housed four large generators which supplied electrical power to Camp Hero. USTs outside of Building 203 were utilized to supply fuel and lubricants to the generators.

Previous Actions and Investigations: In 1994, UST 16 (25,000 gallon #2 fuel oil), UST 18 (25,000 gallon #2 fuel oil), and UST 17 (1000 gallon lube oil) were removed from the perimeter of former Building 203. USTs 16 and 18 were located on the south side of the building and UST 17 was located on the southeast side of the building. Upon removal of USTs 16 and 18, a green liquid that appeared to be ethylene glycol was observed on the sidewalls of the excavation and on water standing in the bottom of the excavation at 17 ft bgs. A solvent odor was present and it was suspected that solvents had been dumped around the building based on visual evidence of surface soil staining and elevated volatile and semivolatile laboratory results of soil. The area behind former Building 203 and adjacent to the USTs was described as a dumping ground for waste oil and spent solvents. A French drain was also observed during excavation activities to surround the Building 203 foundation. The French drain was suspected of acting as a conduit to allow hazardous liquids to migrate around the foundation of the building and into the subsurface soil (NYSDEC Spill Report 93-09575 1993).

Additionally, several drums of glycol were identified at the site during the 1993 UST removal action and several hundred feet of piping containing 150 gallons of ethylene glycol were noted in the former power generator building, presumably used for cooling the generators (NYSDEC Spill Report 93-09575 1993). However, ethylene glycol is a clear, colorless, and viscous liquid that is miscible in water and rapidly biodegrades in soils. It is very likely that ethylene glycol in soils would not be detected at this time decades after it was released. In addition, the soils and foundation around former Building 203, which likely contained ethylene glycol, were excavated during decommission of the building.

In 1995, the single excavation pit for USTs 16 and 18 was over-excavated and 2,500 yards of soil were removed. A Site Assessment Report was submitted for the site to NYSDEC in June 1995 (USACE, 1995). Nine Geoprobe® borings were conducted surrounding the USTs excavation and two Geoprobe® locations were conducted near the center of the excavation. The Geoprobe® location near the center of the excavation was advanced to 53 ft bgs in an attempt to reach groundwater; however, no groundwater was intercepted to this depth. Dense clay was found at depth and surrounding the UST excavation. A soil sample was taken at 53 ft bgs with analysis results below screening criteria. A temporary well was installed to 21 ft below grade, which slowly recharged with groundwater overnight. The results of the soil samples and the groundwater sample taken from the Geoprobe® boreholes were below screening criteria. However, the laboratory method detection limits utilized in the assessment at that time are roughly 10 orders of magnitude higher than what is currently required to evaluate human health risk. The Spill Report Case was closed by the NYSDEC in July 1995.

In 2000, during additional site-wide environmental assessment at Camp Hero by the USACE, a surface water sample was obtained from a drainage area below Building 203 near where a small ditch leading from Building 203 was observed to outfall (Weston 2000). The sample was analyzed for PCBs, SVOCs, and metals. No PCBs or SVOCs were detected in the surface water sample. Two metals, zinc and arsenic, were detected in the sample but were below screening criteria.

Phase I Field Operations: Five Geoprobe® borings (203-SB01 through -SB05) were advanced within the area of the former Building 203 and UST excavation to the depth of the perched aquifer or to 25 ft bgs, whichever was encountered first. Building 203 and USTs have been excavated and replaced with clean fill; the borings were located just beyond the excavation and fill zones to the extent possible. The soil cores were screened with a PID; no readings above 0.0 ppm were observed in borings 203-SB01 through -SB03, but elevated readings of up to 11.3 ppm and 402.8 ppm were observed in borings 203-SB04 and -SB05, respectively. A dense clay layer was encountered between 2 and 20 ft bgs across the AOC; the Phase I RI soil sampling was focused on the layer just above the clay as a potential contaminant transport zone from former Building 203 and the USTs.

Two subsurface soil samples were collected from each boring above the sand-clay interface, with the exception of 203-SB02, because the clay layer was encountered at 2 ft bgs. Sample intervals focused on those with the largest PID readings, if elevated PID readings were observed. Soil samples were submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals.

Temporary wells were installed in the borings and grab groundwater samples were collected for laboratory analysis of VOCs, SVOCs, PCBs, and metals. However, recharge in some of the wells was insufficient to collect the required volume for all planned analyses. The wells were visited multiple times by the sampling team and the collected volume was submitted for laboratory analysis of a shortened analyte suite: VOCs, metals, and one liter for SVOCs were submitted.

Additionally, three piezometers were installed upgradient and downgradient of the Building 203 UST 16 and 18 excavations (PZ-1 through PZ-3) to help determine radial groundwater flow and direction information in the vicinity; analytical samples were not collected from these piezometers. Phase I sampling locations and piezometer locations at Building 203 are shown on **Figure 4-10**.

Upon gauging the piezometers, approximately 5 ft of light non aqueous phase liquid (LNAPL) was observed in piezometer PZ-3. The LNAPL appeared to be weathered petroleum product. Thickness was physically measured to be 8.00 ft to 13.30 ft with 5 ft measured using an interface probe. A petroleum release at AOC Building 203 was made to the NYSDEC hotline by USACE (Ms. Megan Cullen). Pollution Complaint Number PC-1602757 was assigned to the reported release. Mr. Dess

(NYS Camp Hero Park Superintendent) was also notified that a release at former Building 203 had been reported to NYSDEC.

Deviations from the RI WP: As detailed above, an abbreviated analytical suite was submitted due to recharge of groundwater in the temporary wells. Additional piezometers were installed to help determine groundwater flow direction, which were not in the RI WP.

4.12 Suspected Tank A

Seven suspected tanks were identified during the records review (Suspected Tanks A through G); no closure documentation was available for these tanks, but archive drawings indicated possible locations of the tanks. The suspected UST located behind former Building 20 (former Fire Department) was designated Suspected Tank A.

Phase I Field Operations: A geophysical survey was conducted around former Building 20 to confirm the absence or presence of Suspected Tank A. The geophysical survey results indicated subsurface anomalies, including inferred utility junctions, documented culvert end-points, and confirmed fence-line and building infrastructures, as identified on the geophysical survey map in Appendix E. However, a tank-sized object was not identified at the location indicated in the archive drawings, nor elsewhere in the survey data, implying that the tank had been removed. Additionally, no unique features were identified which should present new concerns of potential environmental release or require new sampling locations.

Because no tank-sized features were identified in the geophysical survey, no borings were advanced and no environmental samples were collected.

Deviations from the RI WP: None.

4.13 Suspected Tank B

Seven suspected tanks were identified during the records review summary (Suspected Tanks A through G); no closure documentation was available for these tanks, but archive drawings indicated possible locations of the tanks. A suspected UST located at Building 22 was designated Suspected Tank B.

Phase I Field Operations: A geophysical survey was conducted around Building 22 to confirm the absence or presence of Suspected Tank B. The geophysical survey results identified two possible tanks on the east side of Building 22, as identified on the geophysical survey map in Appendix E. The location the first of the two anomalies was consistent with location of the suspected tank identified in historical records (Suspected Tank B). The second tank-like anomaly was just north of Building 109. This anomaly was designated as Suspected Tank H and was

investigated as a separate AOC (see below). Signals received to the west side of Building 22 were considered to be likely associated with subsurface utilities.

In June 2016, small "test holes" were conducted at the Suspected Tank B location using shovels. Miscellaneous building debris was uncovered, but no evidence of a tank was identified. However, a petroleum odor was noted in the uncovered soil; therefore, four borings (STB-SB01 through -SB04) were advanced to 10 ft bgs (just below the depth of the water table) in the vicinity of the petroleum odor. The soil cores were screened with a PID; no readings above 0.1 ppm were observed. One sample was collected from each boring just above the soil-water interface. An additional three surface soil samples were collected (STB-SS05 through -SS07) from 0 to 1 ft bgs in the vicinity of the borings. Soil samples were submitted for analysis of the NYSDEC STARS list for fuel oil VOCs and SVOCs.

Temporary wells were placed in the borings. Because a tank was not present in the subsurface, grab groundwater samples were only collected from two of the borings: one up-gradient and one down-gradient of the soil with petroleum odor (STB-SB01 and -SB03, respectively). Groundwater samples were submitted for analysis of VOCs and SVOCs. Phase I sampling locations at Suspected Tank B are shown on **Figure 4-11**.

Deviations from the RI WP: The RI WP proposed collection of two samples per boring and no separate surface soil samples; because no tank was located, only one sample was collected per boring and an additional three surface soil samples were collected. Surface soil samples were added based on the observation of petroleum odors in near surface soils but not at depth in the borings. The RI WP also proposed collection of four grab groundwater samples if a tank was located. Because no tank was located, only two grab groundwater samples were collected.

Additionally, after the May 2016 field activities, USACE and AECOM-Tidewater JV discussed collection of a grab groundwater sample from the existing well in the parking lot behind Building 22. During the June 2016 field activities, the USACE and AECOM-Tidewater JV team agreed that samples will not be collected from monitoring wells during Phase I; rather, the well will be sampled via low-flow methodology during Phase II when other newly-installed monitoring wells are sampled, pending results of the Phase I investigation.

4.14 Suspected Tank C

Seven suspected tanks were identified during the records review summary (Suspected Tanks A through G); no closure documentation was available for these tanks, but archive drawings indicated possible locations of the tanks. A suspected UST located at former Building 2 was designated Suspected Tank C.

Phase I Field Operations: A geophysical survey was conducted around former Building 2 to confirm the absence or presence of Suspected Tank C. The geophysical survey identified multiple underground anomalies in the area of former Building 2, one of which was consistent with the location of the suspected tank identified in historical records, as identified on the geophysical survey map in Appendix E. Five additional anomalies were identified which were believed to be historic underground utilities.

In June 2016, small "test holes" were conducted at the Suspected Tank C location identified by the geophysical survey using shovels. Miscellaneous building debris was uncovered, and no evidence of a tank or petroleum-contaminated soil was identified. Therefore, no borings were conducted and no environmental samples were collected.

Deviations from the RI WP: None.

4.15 Suspected Tank D

Seven suspected tanks were identified during the records review summary (Suspected Tanks A through G); no closure documentation was available for these tanks, but archive drawings indicated possible locations of the tanks. A suspected UST located at former Building 104R was designated Suspected Tank D.

Phase I Field Operations: A geophysical survey was conducted around Building 104R to confirm the absence or presence of Suspected Tank D. The geophysical survey results indicated an abundance of utility connections along with former building and concrete pad infrastructure, as identified on the geophysical survey map in Appendix E. However, a tank-sized object was not identified at the location indicated in the archive drawings, nor elsewhere in the survey data, implying that the tank had been removed. Additionally, no unique features were identified which should present new concerns of potential environmental release or require new sampling locations.

Because no tank-sized features were identified in the geophysical survey, no borings were advanced and no environmental samples were collected.

Deviations from the RI WP: None.

4.16 Suspected Tank E (Building 3001)

Building 3001 has also historically been referred to as Building 47 (Cashin Report), State Park Police Lilco Building, and AT&T Building. UST 26 was previously removed from Building 3001, and another tank (AST 49) remains in use at the building. Archive drawings suggested a third UST in the vicinity of the former UST 26 location (Suspected Tank E). Additionally, one existing well is located on the South side of Building 3001, which was previously used as a water source in the building prior to

connection to Suffolk County Water in 2011. The RI WP recommended collection of one grab groundwater sample from the existing well for analysis of VOCs and SVOCs.

Phase I Field Operations: A geophysical survey was conducted around Building 3001 to confirm the absence or presence of Suspected Tank E. The geophysical survey results indicated building and fence-line interference, along with verified manholes and telephone pole surface features, as identified on the geophysical survey map in Appendix E. However, a tank-sized object was not identified at the location indicated in the archive drawings, nor elsewhere in the survey data, implying that the tank had been removed. Additionally, no unique features were identified which should present new concerns of potential environmental release or require new sampling locations. Because tank-sized features were not identified in the geophysical survey, borings were not completed at this AOC.

Additionally, the existing well, which is no longer used at Building 3001, could not be sampled as the well is disconnected and access to groundwater through the well head seal was not available.

Deviations from the RI WP: None.

4.17 Suspected Tank F

Archive figures indicated that Suspected Tank F could be located at the pump house near Battery 216 (also known as Bunker-4). This groundwater pump house was suspected to have a UST in proximity to the building, because similar pump house on Camp Hero had a 100 gallon gasoline UST removed.

Phase I Field Operations: A geophysical survey was conducted in the vicinity of the pump house near Battery 216 to confirm the absence or presence of Suspected Tank F. Due to dense vegetation and terrain, the area was assessed using AGM. Interferences (e.g., buildings, fences) or metallic items large enough to represent a UST were not identified, as shown on the geophysical survey map in Appendix E. Because tank-sized features were not identified, no borings were advanced and no environmental samples were collected.

Deviations from the RI WP: None.

4.18 Suspected Tank G

An additional pump house was noted at Well 4 during the January 2016 site walk. This groundwater pump house was suspected to have a UST (Suspected Tank G) in proximity to the building, because similar pump house on Camp Hero had a 100 gallon gasoline UST removed.

Phase I Field Operations: A geophysical survey was conducted around the pump house to confirm the absence or presence of Suspected Tank G. Due to dense vegetation and terrain, the

area was assessed using AGM. No interferences (e.g., buildings, fences) or metallic items large enough to represent a UST were identified, as shown on the geophysical survey map in Appendix E. Because no tank-sized features were identified, borings were not completed at this AOC.

4.19 Suspected Tank H

Seven suspected tanks were identified during the records review summary (Suspected Tanks A through G). Geophysical surveys were conducted in May 2016 to confirm the presence or absence of the suspected tanks. During the geophysical survey around Building 22, an additional tank-sized anomaly was identified just north of Building 109. This anomaly was designated as Suspected Tank H and was investigated as a separate AOC.

Phase I Field Operations: In June 2016, small "test holes" were conducted at the Suspected Tank H location using shovels. Miscellaneous building debris was uncovered, but there was not any evidence of a tank or petroleum impacts. Therefore, borings were not completed at this AOC.

Deviations from the RI WP: The Suspected Tank H AOC was not included in the RI WP but was added to the investigation after the geophysical surveys in May 2016.

4.20 Abandoned Waste Disposal System (Site-Wide)

The site-wide Abandoned Waste Disposal System is a suspected former area of hazardous waste dumping. The abandoned site-wide sanitary sewer was identified during the 2016 historical records search from archive drawings of Camp Hero provided by the NY State Parks; the system was abandoned and has not been used by the NY State Parks. The drawings indicate that septic fields and cesspools were also utilized at Camp Hero prior to construction of the site-wide sanitary sewer system. The system was connected to a chlorine chamber for treatment prior to discharge to the Atlantic Ocean at a headwall outfall. The location of the site-wide sanitary sewer line and former septic fields and cesspools are shown on the Site Map (**Figure 1-2**).

Phase I Field Operations: Twenty-seven Geoprobe® borings (WDS-SB01 through -SB27) were advanced throughout the abandoned waste disposal system, at locations targeting former leach fields and cesspools downgradient from buildings which may have utilized hazardous materials. Boring locations were biased to potential weak sites or collection areas along the sewer line, such as locations of 90-degree turns, where the sanitary line was joined by a secondary sanitary line from former operations buildings, collection tanks, and at the chlorine contact chamber. The locations of former sanitary leach fields, septic tanks, and cesspools utilized prior to construction of the site-wide sanitary sewer system were also included in the soil and groundwater sampling.

Borings were advanced to the depth of the targeted abandoned waste disposal system features (bottom of the leach field, septic tank, cesspool, etc.). The soil cores were screened with a PID;

readings above 0.0 ppm were not observed. One soil sample was collected from each boring at depth. Temporary wells were set in each boring and grab groundwater samples were collected. Soil and groundwater samples were sent to the laboratory for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sample locations for the site-wide abandoned waste disposal system are shown on **Figures 4-12** through **4-16**.

Deviations from the RI WP: At some locations, groundwater recharge was insufficient to fill all required sample bottleware, even after multiple attempts; in those instances, the volume obtained was submitted for analysis of shortened list of analytes.

4.21 Motor Pool

The Motor Pool building contained a hydraulic lift for vehicle maintenance. According to the State Park Superintendent (Mr. Tom Dess) in a phone interview, the concrete floor over the hydraulic lift was capped at the time the State Park began utilizing the Facility. Since that time, the Motor Pool building has been beneficially reused by the NY State Park. A 1940 Camp Hero archive site map identifies the Motor Pool building was once utilized as an Ordnance Repair Shop. A floor drain was likely present in the building during DoD use of the building.

Additionally, a cesspool on the east side of the motor pool, downgradient from the building, has also been identified through the historical records search. There is potential that petroleum, munitions constituents, and/or hazardous materials may have drained through the floor drain, which may have led to the cesspool. There was no evidence of a discharge pipe from the Motor Pool Building to the ground surface outside of the Motor Pool Building observed during a site walk over in this area conducted on 3 November 2015 during the project kick-off meeting.

One existing groundwater supply well currently utilized for non-potable purposes at the Motor Pool (untreated tap) is located on the west side of the building.

Phase I Field Operations: At the location of the former hydraulic lift, one Geoprobe® boring (MP-SB01) was advanced through the concrete slab adjacent at the former hydraulic lift to 10 ft bgs, just past the depth of the bottom of the former lift, which is assumed to be 8 to 10 ft bgs. Concrete coring was conducted prior to boring. Additionally, concrete and debris were encountered in the boring around 9 ft bgs. The soil core was screened with a PID; elevated PID readings from 5 to 10 ft bgs were observed (maximum of 21.0 ppm). One soil sample was collected 4 to 5 ft bgs from the non-native and native soil interface, which was also just above the soil-water interface, for analysis of the NYSDEC STARS list for fuel oil VOCs and SVOCs. A temporary well was placed in the boring and a grab groundwater sample was collected for analysis of VOCs and SVOCs. Petroleum odor was observed in the purge water during groundwater sample collection. The temporary well was abandoned and the concrete was patched at grade once sample collection was complete.

Adjacent to the location of the former floor drain to the cesspool just outside the building (approximately 6 ft from the edge of the building), one Geoprobe® boring (MP-SB02) was advanced to 15 ft bgs, just past the depth of the perched water table. The soil core was screened with a PID; no readings above 0.0 ppm were observed. Two soil samples were collected from the boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from 11 to 12 ft bgs, just above the soil-water interface. Soil samples were submitted for laboratory analysis of the NYSDEC STARS list for fuel oil VOCs and SVOCs and for energetics. A temporary well was placed in the boring and a grab groundwater sample was collected for analysis of VOCs, SVOCs, and energetics.

Along the sewer line from the building to the cesspool, one Geoprobe® boring (MP-SB03) was advanced to 15 ft bgs, just past the depth of the perched water table. Two soil samples were obtained from the boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from 8 to 9 ft bgs, just above soil-water interface, for laboratory analysis of the NYSDEC STARS list for fuel oil VOCs and SVOCs, PCBs, and energetics. A temporary well was placed in the boring and a grab groundwater sample was collected for analysis of VOCs, SVOCs, PCBs, and energetics.

Additionally, one grab groundwater sample was collected from the existing well located on the west side of the Motor Pool from an available untreated tap for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, energetics, and metals. The Phase I sampling locations at the Motor Pool are shown on **Figure 4-17**.

Note that an additional soil boring (WDS-SB11) was conducted immediately adjacent to the cesspool as part of the site-wide abandoned waste disposal system AOC.

Deviations from the RI WP: None.

4.22 Engineering Field Office

A former engineering field office building was identified on a 1940 site map located adjacent to the Motor Pool building. The 1940 site map identifies the motor pool building as once utilized as an Ordnance Repair Shop. Archive pictures of the engineering field office indicate it was a two-story high wooden building with double doors. Work related to ordnance repair may have also occurred in the engineering field office located adjacent to the Motor Pool building.

Phase I Field Operations: One soil boring was advanced downgradient of the former engineering field office, on the south side of the building within the drainage area adjacent to the building foundation, to 14 ft bgs. Two soil samples were collected from the boring, one surface soil sample (0 to 1 ft bgs) and one subsurface soil sample just above perched groundwater-soil

interface (7 to 8 ft bgs), for laboratory analysis of energetics. One grab groundwater sample was also collected from a temporary well for analysis of energetics. The Phase I sampling location for the Engineering Field Office is shown on **Figure 4-18**.

Deviations from the RI WP: None.

4.23 Former Building 34

During the May 2016 Phase I RI activities, the USACE and AECOM-Tidewater JV team discovered a building foundation, old furnace, and building debris in the H-16 area east of the Motor Pool Building at former Building 34. USACE requested that AECOM review locations of proposed borings and surface and near-surface soil samples at nearby H-5 and H-16 in relation to this debris and shift sample locations to cover this debris area. This area was identified as a new AOC, former Building 34.

Phase I Field Operations: One Geoprobe® boring (034-SB01) was advanced to 10 ft bgs on the north side of former Building 34. Water was encountered at 2 ft bgs. The soil core was screened with a PID; no readings over 0.0 ppm were observed. Two soil samples were collected from the boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from 1 to 2 ft bgs, just above the soil-water interface. Soil samples were submitted for laboratory analysis of PAHs, PCBs, and metals. A temporary well was placed in the boring and a groundwater sample was collected for laboratory analysis of PAHs, PCBs, and metals.

Additionally, four co-located surface soil and near-surface soil samples (locations 034-SS02 through -SS05) were collected downgradient of the debris toward the embankment of revetments southeast of former Building 34. The revetments are narrow, wooden stream channelization structures found in stream beds throughout Camp Hero State Park, which appear to have been installed to control surface water flow across the facility. Surface soil and near-surface soil samples were submitted for laboratory analysis of PAHs, PCBs, and metals. Phase I sample locations at former Building 34 are shown in **Figure 4-19**.

Deviations from the RI WP: This is a new AOC that was not included in the WP.

4.24 Drum Location (H-1)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-1. One drum was present with no labeling or identification. No liquid was present in the drum. Two co-located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were

collected from underneath the drum for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-1 are shown on **Figure 4-20**.

Deviations from the RI WP: None.

4.25 Drum Location (H-2)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-2. One drum was present with no labeling or identification. Liquid was not present in the drum. Two co-located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were collected from underneath the drum for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-2 are shown on **Figure 4-21**.

Deviations from the RI WP: None.

4.26 Drum Location (H-3)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-3. One drum was present with no labeling or identification. Liquid was not present in the drum. Two co-located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were collected from underneath the drum for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-3 are shown on **Figure 4-22**.

Deviations from the RI WP: None.

4.27 Construction Debris Area (H-4)

The Cashin Report noted areas H-4 and H-6 contained construction debris.

Phase I Field Activities: A walk-over survey was conducted to identify the amount and location of construction debris at H-4.

Three Geoprobe® borings (H4-SB01 through -SB03) were advanced to 10 ft bgs (just past the depth of the perched aquifer) under the debris or on the downgradient edge of the debris. The soil cores were screened with a PID; no readings above 0.0 ppm were observed. Two soil samples were obtained from each boring: one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample just above the perched groundwater-soil interface.

Temporary wells were installed in each boring. One grab groundwater sample was collected from each boring. Soil and groundwater samples were analyzed for lead from lead-based paint and PCBs. Phase I sampling locations at H-4 are shown on **Figure 4-23**.

Deviations from the RI WP: None.

4.28 Drum Location with Construction Debris (H-5)

Five drums and construction debris were noted at area H-5 in the Cashin Report, located in a topographic swale southeast of the Motor Pool Building (Cashin 1998). Three of the drums were identified as contents unknown. However, there was no evidence of these drums present during a Site Walk Over in this area conducted on November 3, 2015 during the RI/FS Project kick-off meeting. Tom Dess (NYS Camp Hero Superintendent) indicated the parks had removed the debris and a motorcycle frame from the area previously.

Phase I Field Operations: Four surface soil samples (0 to 1 ft bgs) and four co-located near-surface soil samples (1 to 2 ft bgs) were collected in the vicinity of the former drums and construction debris. The two soil sample locations near the former drums (H5-SS01 and -SS02) were sampled for VOCs, SVOCs, PCBs, and metals. The two soil samples at the construction debris area (H5-SS03 and -SS04) were analyzed for lead from lead-based paint and PCBs. Phase I sampling locations for H-5 are shown on **Figure 4-24**.

Deviations from the RI WP: Eight surface soil and eight near-surface soil samples were proposed for H-5 in the RI WP. During the May 2016 site walk, USACE and AECOM-Tidewater JV agreed that four sample locations instead of eight were sufficient.

4.29 Construction Debris Area (H-6)

The Cashin Report noted areas H-4 and H-6 contained construction debris.

Phase I Field Activities: A walk-over survey was conducted to identify the amount and location of construction debris at H-6.

Three Geoprobe® borings (H6-SB01 through -SB03) were advanced to 8 ft bgs (just past the depth of the perched aquifer) under the debris or on the downgradient edge of the debris. The soil cores were screened with a PID; no readings above 0.0 ppm were observed. Two soil samples were obtained from each boring, one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample just above the perched groundwater-soil interface.

Temporary wells were installed in each boring. One grab groundwater sample was collected from each boring. Soil and groundwater samples were analyzed for lead from lead-based paint and PCBs. Phase I sampling locations at H-6 are shown on **Figure 4-25**.

Deviations from the RI WP: None.

4.30 Possible Boilers (H-7 and H-8)

The Cashin Report noted three locations at Camp Hero which contained what appeared to be old boilers (1998): H-7, H-8, and H-9. The RI WP proposed a visual survey to determine whether boilers still exist. If the boilers were present, one surface soil sample (0–1 ft bgs) was to be collected. If stained soils were noted or if field screening of the surface soil samples with the PID (in the plastic, re-sealable bag) indicated the presence of petroleum during the survey, one Geoprobe® boring was to be advanced for the collection of two subsurface soil samples and one grab groundwater sample.

Phase I Field Operations: An extensive visual and magnetometer survey was conducted by the project team; however, the team was unable to locate debris noted by previous Cashin Report at AOC H-7 and H-8 after multiple attempts. As such, sampling activities were not completed at these AOCs.

Deviations from the RI WP: None.

4.31 Possible Boiler (H-9)

The third boiler noted in the Cashin Report, H-9, was confirmed present during visual survey during the initial project site walk (Cashin, 1998).

Phase I Field Operations: A visual survey was conducted and confirmed that the boiler at location H-9 still existed in June 2016. One surface soil sample (H9-SS01) was collected from 0 to 1 ft bgs for laboratory analysis of PAHs and metals. Field screening of the surface soil sample with the PID (in the plastic, re-sealable bag) was conducted; no readings above 0.0 ppm were observed. Because stained soils were not observed and field screening did not indicate elevated PID readings, borings were not completed in accordance with the RI WP. The Phase I sampling location at H-9 is shown on **Figure 4-26**.

Deviations from the RI WP: None.

4.32 Former Power Plant (H-11)

The Cashin Report recommended investigation potential petroleum, metals, and PCBs in soil and groundwater associated with the former power plant. In an August 2000 environmental assessment, five groundwater, two surficial soil, two subsurface soil, and two sediment samples were collected and analyzed for PCBs, SVOCs, and metals (Weston 2000).

At that time, the former Power Plant location contained three to five feet of fill material, consisting mostly of charcoal. PCBs were not detected in soils or groundwater from the area. Beryllium was

detected above the regulatory criteria in one subsurface soil (SS-1) and chromium and lead were detected at concentrations that slightly exceeded screening criteria in one of five groundwater sample locations (GW-2). The levels of chromium and lead were somewhat elevated in relation to the reference well located up-gradient of the former Power Plant location. Results from surface water and sediment samples indicated no evidence of contaminant transport pathways from the buildings to adjacent sensitive environmental areas, such as forested wetlands and streams (Weston 2000).

Additional investigation of the power plant was included in the Phase I investigation to confirm the Weston results (Weston 2000).

Phase I Field Operations: Two Geoprobe® borings (H11-SB01 and -SB02) were advanced to 10 ft bgs (just past the depth of water) within the footprint of the former Power Plant Building. The soil cores were screened with a PID; there were not any readings detected at location H11-SB01, but elevated PID readings (21.7 ppm maximum) were observed 3 to 5 ft bgs at location H11-SB02. Two soil samples were obtained from each boring, one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample from 3 to 4 ft bgs, just above the perched groundwater-soil interface or in the interval with elevated PID readings.

A temporary well was installed in each boring and a grab groundwater samples were collected. Soil and groundwater samples were submitted for laboratory analysis of PAHs, PCBs, and metals. Phase I sampling locations for the former power plant are shown on **Figure 4-27**.

Note that two Geoprobe® borings were also conducted in the tile drain field associated with the former Power Plant Building as part of the site-wide abandoned sanitary sewer investigation and are discussed under that AOC. Those results will be incorporated into approach for this AOC.

Deviations from the RI WP: None.

4.33 Sewage Ejector Station (H-12)

The sewage ejector station, located near the former heating plant, was noted in the Cashin Report as a potential concern due to waste handling.

Phase I Field Operations: One Geoprobe® boring (H12-SB01) was advanced to 10 ft bgs within the footprint of the former ejector station. The soil core was screened with a PID and there were not any readings above 0.1 ppm recorded. Two soil samples were collected: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from 4 to 5 ft bgs, just above the soil-water interface. A temporary well was placed in the boring and a grab groundwater sample was collected. Soil and groundwater samples were submitted for laboratory analysis of VOCs, SVOCs,

PCBs, and metals. Phase I sampling locations for the Sewage Ejector Station are shown on **Figure 4-28**.

Deviations from the RI WP: None.

4.34 Former Coal Storage (H-14)

Two former coal storage areas were identified in the Cashin Report and on archive drawings obtained during the 2016 historical records search (H-14 and H-15).

Phase I Field Operations: Three Geoprobe® borings (H14-SB01 through -SB03) were advanced within the suspected area of the H-14 coal storage area. The soil cores were screened with a PID and there were not any readings above 0.0 ppm recorded. Two soil samples were obtained from each boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample just above the soil-water interface or at the depth of the boring, if not water was encountered.

Temporary wells were placed in all three boring locations; grab groundwater samples were collected from H14-SB01 and -SB03. H14-SB02 was dry upon gauging and a groundwater sample could not be collected. Soil and groundwater samples were submitted for laboratory analysis of PAHs and metals. Phase I sampling locations for H-14 are shown on **Figure 4-29**.

Deviations from the RI WP: None.

4.35 Former Coal Storage (H-15)

Two former coal storage areas were identified in the Cashin Report and on archive drawings obtained during the 2016 historical records search (H-14 and H-15).

Phase I Field Operations: Three Geoprobe® borings (H15-SB01 through -SB03) were advanced within the suspected area of the H-15 coal storage area. The soil cores were screened with a PID and there were not any readings above 0.0 ppm recorded. Groundwater was not encountered in the borings. Two soil samples were obtained from each boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample just above where moisture was encountered or at the depth of the boring. Soil samples were submitted for laboratory analysis of PAHs and metals. Phase I sampling locations for H-15 are shown on **Figure 4-30**.

Deviations from the RI WP: Temporary wells were placed in all three boring locations; however, all three wells were dry upon gauging and groundwater samples could not be collected despite multiple attempts.

4.36 Former Sewage Treatment Area (H-16)

The Cashin Report reported a sewage treatment area just east of the Motor Pool. Historic site drawings indicated a proposed sewage treatment plant in this area; however, the available documentation was incomplete and the RI WP recommended additional investigation.

Phase I Field Operations: A walk-over survey was conducted to attempt to identify the status and size of former sewage treatment area at this location; however, no indicators were present other than some mounding. One Geoprobe® boring was advanced to the perched groundwater table in the former sewage treatment area. The soil core was screened with a PID and there were not any readings above 0.0 ppm that were recorded. Two soil samples were obtained the boring: one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample from 4 to 5 ft bgs, just above the groundwater-soil interface.

A temporary well was placed in the boring and a grab groundwater sample was collected. Soil and groundwater samples were submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals. The Phase I sampling location for H-16 is shown on **Figure 4-31**. Additionally, one boring location associated with the abandoned site-wide waste disposal system (WDS-SB11) was located within the H-16 area.

Deviations from the RI WP: Two borings were planned for H-16 in the RI WP; however, because one boring associated with the abandoned site-wide waste disposal system (WDS-SB11) was located within the H-16 area, one of the two H-16 borings was reallocated to former Building 34, a new AOC established during the Phase I field activities (see Section 4.23 for more details).

4.37 Open Pits (H-17)

The Cashin Report noted two open pit locations which may have been dumping areas (H-17 and H-21). Geospatial analysis of these areas by the USACE AGC were inconclusive (USACE 2016). Based on visual inspection of the areas, there have been ground disturbances; therefore, the goal of the Phase I investigation was to confirm or deny suspected waste related to DoD utilization of this area.

Phase I Field Operations: Three Geoprobe® borings (H17-SB01 through -SB03) were advanced in the vicinity of the ground disturbances at H-17, two topographically downgradient and one upgradient of the disturbance. During the initial attempt on each boring, groundwater was not encountered and the sandy lithology caused boreholes to collapse around 20 ft bgs. The team returned at a later date with steel casing and advanced borings to 35 ft bgs (greater than the 25 ft bgs established in the RI WP), in attempt to reach groundwater. Two soil samples were obtained from each boring: one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample from 4 to 5 ft bgs. Groundwater was encountered in two of the three borings; temporary wells were installed in those two borings (H17-SB02 and -SB03) and grab groundwater samples

were collected. Soil and groundwater samples were submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-17 are shown on **Figure 4-32**.

Deviations from the RI WP: As detailed above, one of the three planned groundwater samples was not obtained.

4.38 Drum Location (H-18)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-18. Minimal drum remnants were present with no labeling or identification; liquid was not present in the drum remnants. Two co-located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were collected in the vicinity of the drum remnants for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-18 are shown on **Figure 4-33**.

Deviations from the RI WP: None.

4.39 AST 550-Gallon (H-19)

The Cashin Report noted one discarded 550-gallon above ground storage tank was located in the area of Camp Hero between Hill 72 and 83, in the northern section of the site (see **Figure 1-2**).

Phase I Field Operations: A walk-over survey was conducted and confirmed that the 550-gallon AST still exists at Camp Hero. Liquid was not present in the tank. Two surface soil samples (H19-SS01 and -SS02) were collected from 0 to 1 ft bgs adjacent to the tank for analysis of VOCs, PAHs, and metals. The soils were screened with a PID and there were not any readings above 0.0 ppm that were recorded. Because there were not any elevated PID readings or petroleum-stained soils observed, Geoprobe® borings were not conducted. Phase I sampling locations at H-19 are shown on **Figure 4-34**.

Deviations from the RI WP: None.

4.40 Drum Location (H-20)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-20. One drum was present, with no labeling or identification, located inside the wooden revetment (as described above in Section 4.23). Liquid was not present in the drum. Two co-

located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were collected from underneath the drum within the revetment for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-20 are shown on **Figure 4-35**. Photographs of the sampling at H-20 are located in the Photograph Log (H-20).

Deviations from the RI WP: None.

4.41 Open Pits (H-21)

The Cashin Report noted two open pit locations which may have been dumping areas (H-17 and H-21). Geospatial analysis of these areas by the USACE AGC were inconclusive (USACE 2016). Based on visual inspection of the areas, there have been ground disturbances; therefore, the goal of the Phase I investigation was to confirm or deny suspected waste related to DoD utilization of this area.

Phase I Field Operations: Three Geoprobe® borings (H21-SB01 through -SB03) were advanced to 15 ft bgs in the vicinity of the ground disturbances. Two soil samples were obtained from each boring: one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample at varying depths. Temporary wells were installed in the borings and grab groundwater samples were collected. Soil and groundwater samples were submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-21 are shown on **Figure 4-36**.

Deviations from the RI WP: None.

4.42 Drum Location (H-22)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-22. One drum was present with no labeling or identification. Liquid was not present in the drum. Two co-located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were collected from underneath the drum for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-22 are shown on **Figure 4-37**.

Deviations from the RI WP: None.

4.43 AGC Sites 1, 2, and 4

As part of this investigation, the Hydrologic and Environmental Analysis Branch of the Warfighter Support Directorate of the USACE ACG was tasked to search, collect, and review historical aerial photography from 1940 to 1982 searching for features associated with dumps within the former Camp Hero boundary. Their report concluded that there was no photographic evidence of debris accumulation suggestive of a dump in the years collected within the timeframe of this project.

However, four areas were identified where dumping could have taken place, described as access points to cleared areas near or along the bluff (USACE 2016). The four areas were designated "AGC Sites 1, 2, 3, and 4" for this RI. AGC Site 3 corresponds to the "Camp Hero State Park Bluffs" AOC, which was already established as a part of this investigation (see below).

Phase I Field Operations: To investigate potential buried debris, a visual inspection and screening-level geophysical survey using a metal detector were conducted during Phase I field activities. Visual and magnetometer results did not identify any subsurface anomalies indicative of waste dumping. As such, borings were not advanced at this AOC.

Deviations from the RI WP: None.

4.44 Camp Hero State Park Bluffs/AGC Site 3

A boiler or small tank and metal debris was observed at the bottom of the steep slope along the southern bluffs of Camp Hero during the Site Walk conducted in October 2015. Additionally, the USACE AGC identified this location as an area where dumping could have taken place. Based on a previous walk-over survey, it was concluded that the miscellaneous metal debris was inert and did not previously contain liquid contents.

Phase I Field Operations: The boiler was removed from the bluffs and disposed of as solid waste.

Deviations from the RI WP: None.

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Appendix A

Figures

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Appendix B

Tables

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Coordination with Stakeholders

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Army Geospatial Center Report

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Appendix F

Community Air Monitoring Data

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Appendix G

Laboratory Analytical Reports and Validation

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Appendix G1

Laboratory Analytical Sample Reports

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Laboratory Investigation-Derived Waste Analytical Report

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Data Validation Reports

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Appendix H

Daily Field Reports

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Appendix I

Photograph Log

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Appendix A

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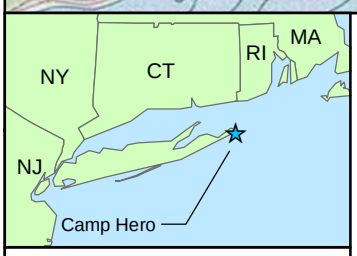

MAP LOCATION

N
W E
S

0 1,000 2,000 Feet

1 inch = 2,000 feet

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General Location Map

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 1-1**

9/29/2016 1:24,000 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 1-1 General Location.mxd

Figure 1-2 Site Map with AOC Locations

Please see attached map.

Figure 3-1 Soil Survey Site Map

Please see attached map.

MAP LOCATION

N
W E
S

0 25 50
Feet

1 inch = 50 feet

NAD 1983 StatePlane Long Island FIPS 3104

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Background Area 01 Sampling Locations

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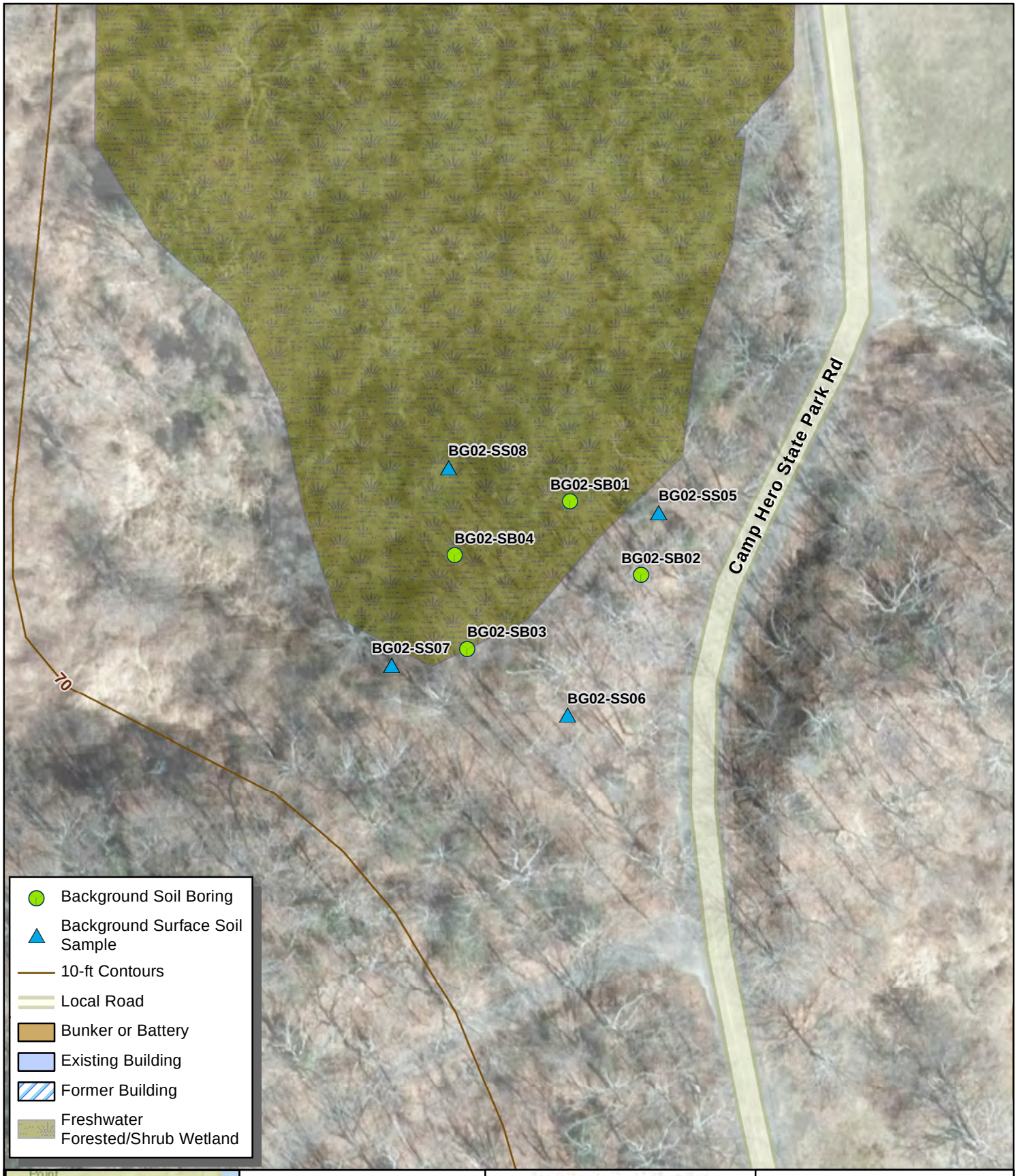
PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 3-2**

9/29/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 3-2 BG01.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W E
S

0 25 50
Feet

1 inch = 50 feet

NAD 1983 StatePlane Long Island FIPS 3104

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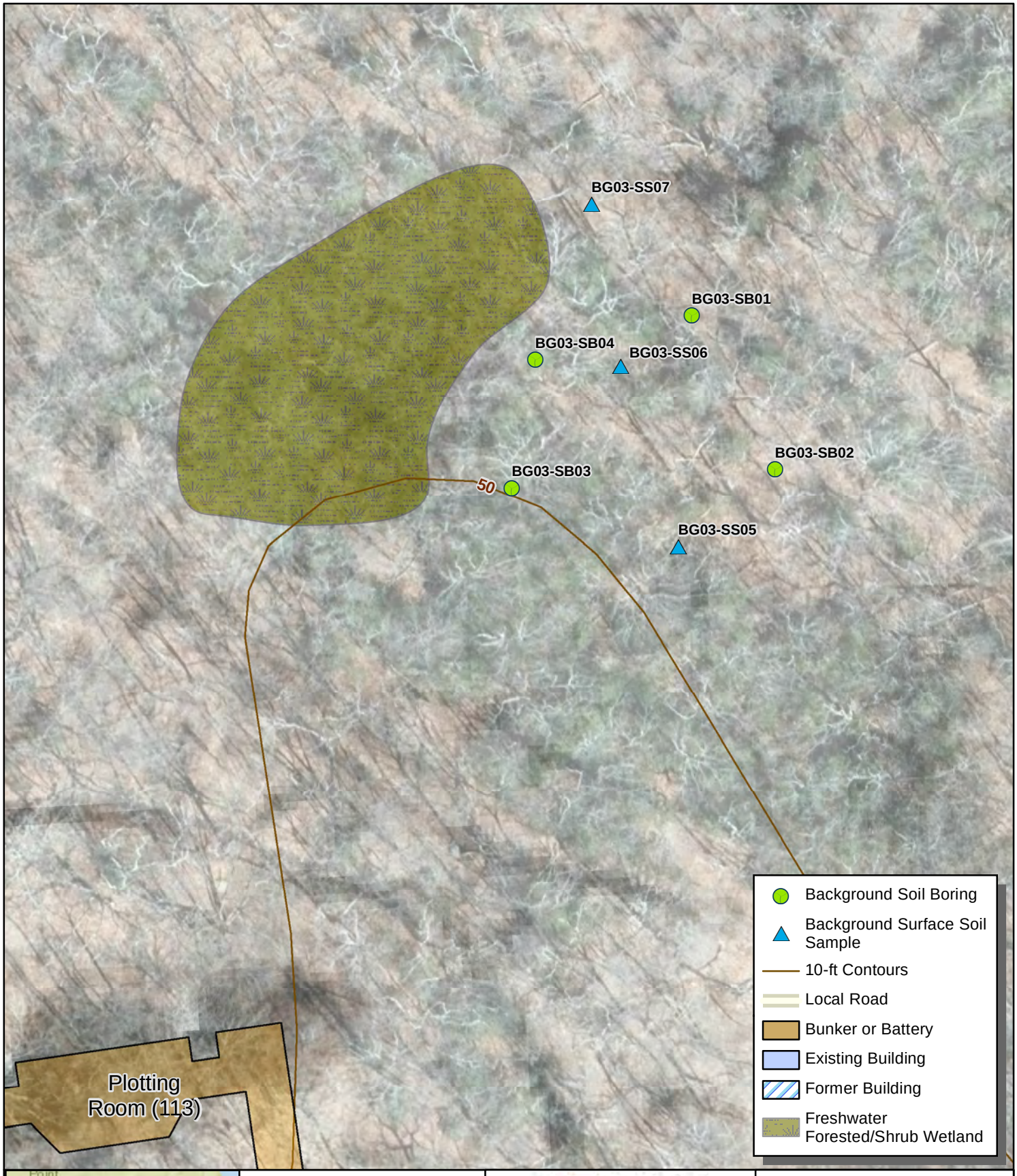
Background Area 02 Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 3-3**

9/29/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 3-3 BG02.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W E
S

0 25 50
Feet

1 inch = 50 feet

NAD 1983 StatePlane Long Island FIPS 3104

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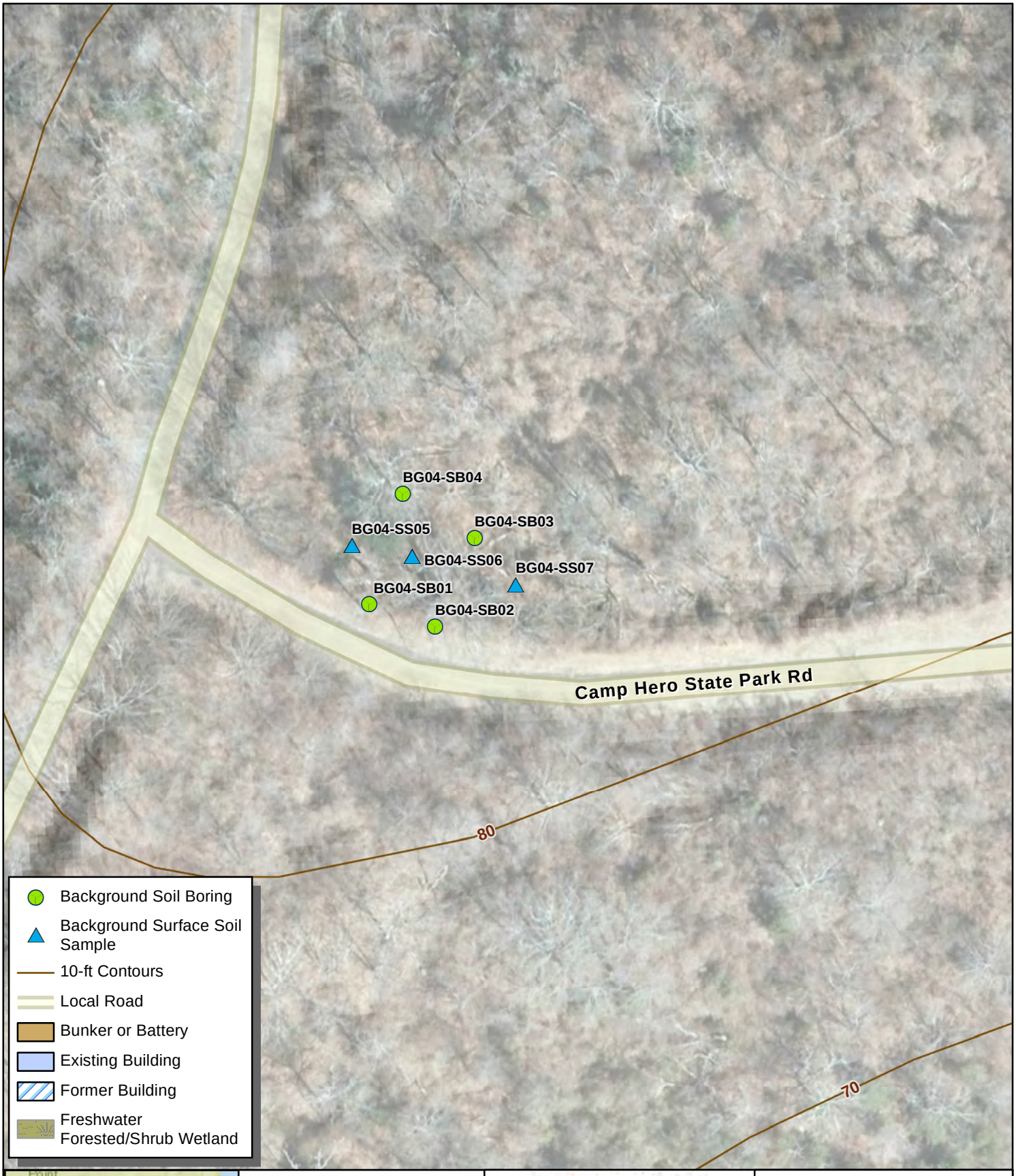
Background Area 03 Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 3-4**

9/29/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 3-4 BG03.mxd (USCHL1FP002\Data\Library\Gisprojects\)



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Background Area 04 Sampling Locations

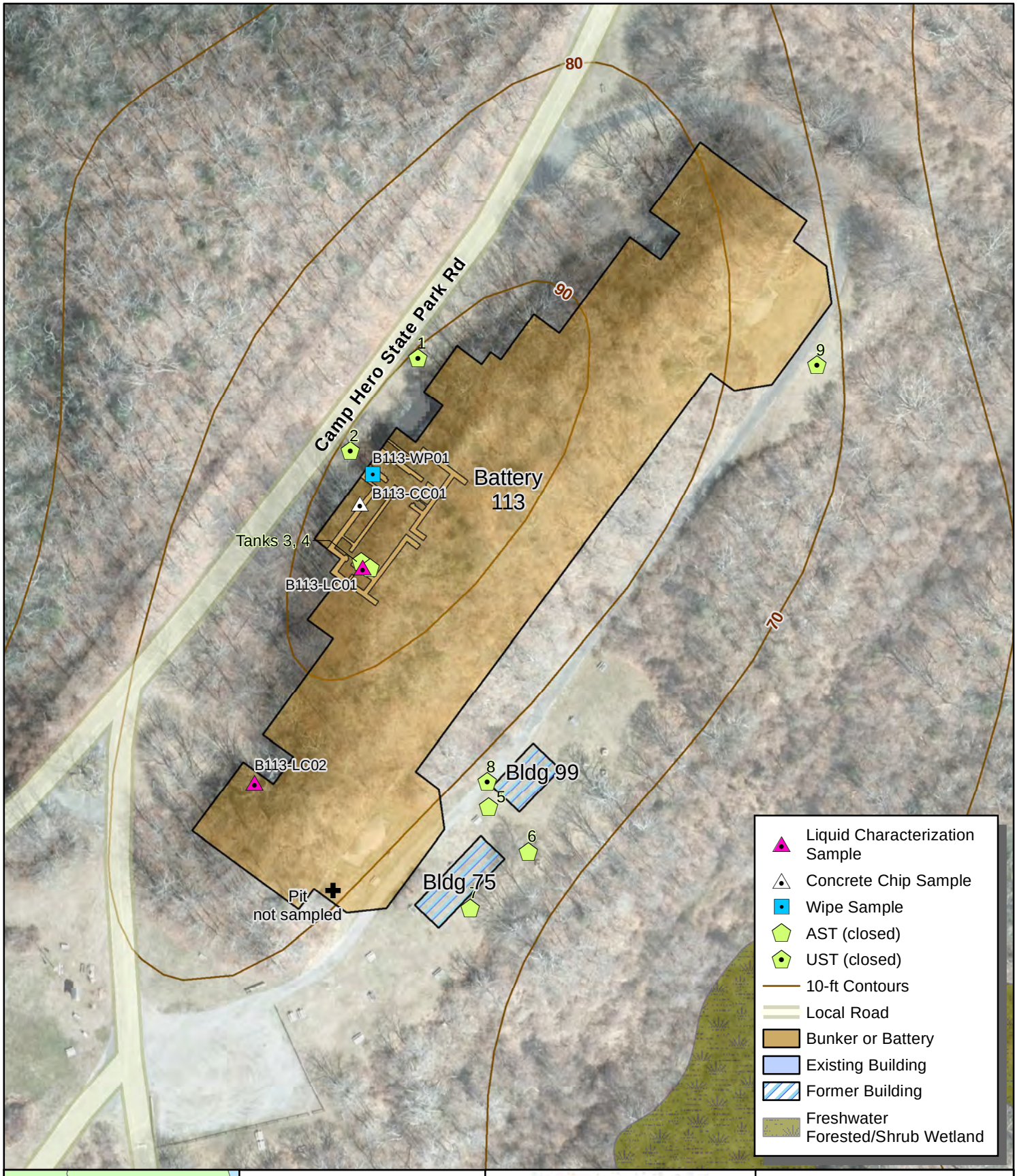
Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 3-5**

9/5/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 3-5 BG04.mxd (USCHL1FP002\Data\Library\Gisprojects\)

Figure 4-1 Groundwater Elevations, June 2016

Please see attached map.



MAP LOCATION

N
W
E
S

0 50 100 Feet

1 inch = 100 feet

NAD 1983 StatePlane Long Island FIPS 3104

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Battery 113 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-2**

8/25/2016 1:1,200 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-2 Battery 113.mxd (USCHL1FP002\Data\Library\Gisprojects\)

MAP LOCATION

N
W
E
S

0 15 30

Feet

1 inch = 30 feet

NAD 1983 StatePlane Long Island FIPS 3104

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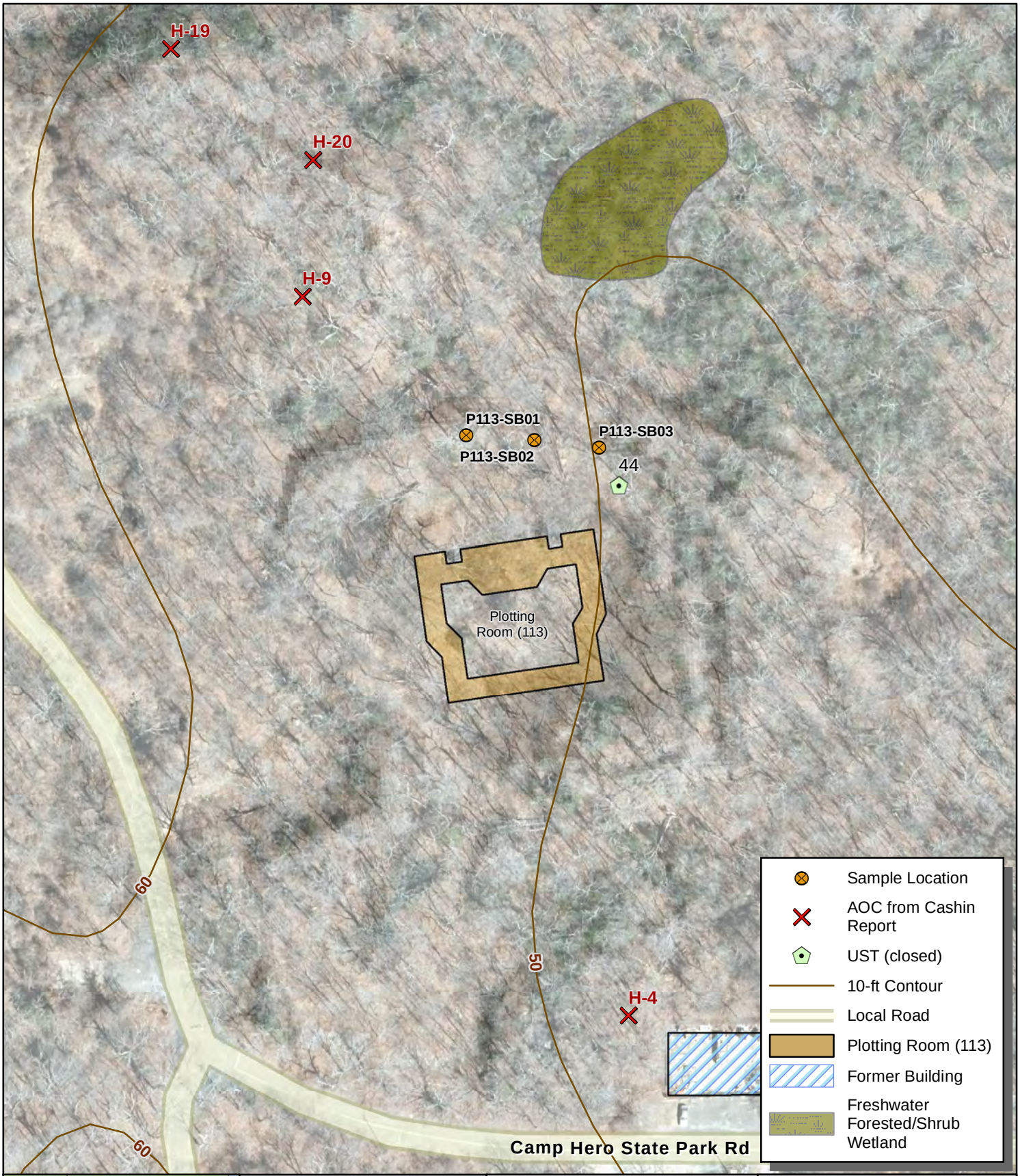
Building 201
Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-4**

8/26/2016 1:360 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-4 Building 201.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W E
S

0 50 100 Feet

1 inch = 100 feet

NAD 1983 StatePlane Long Island FIPS 3104

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Plotting Room 113
Phase 1 RI Sampling Locations

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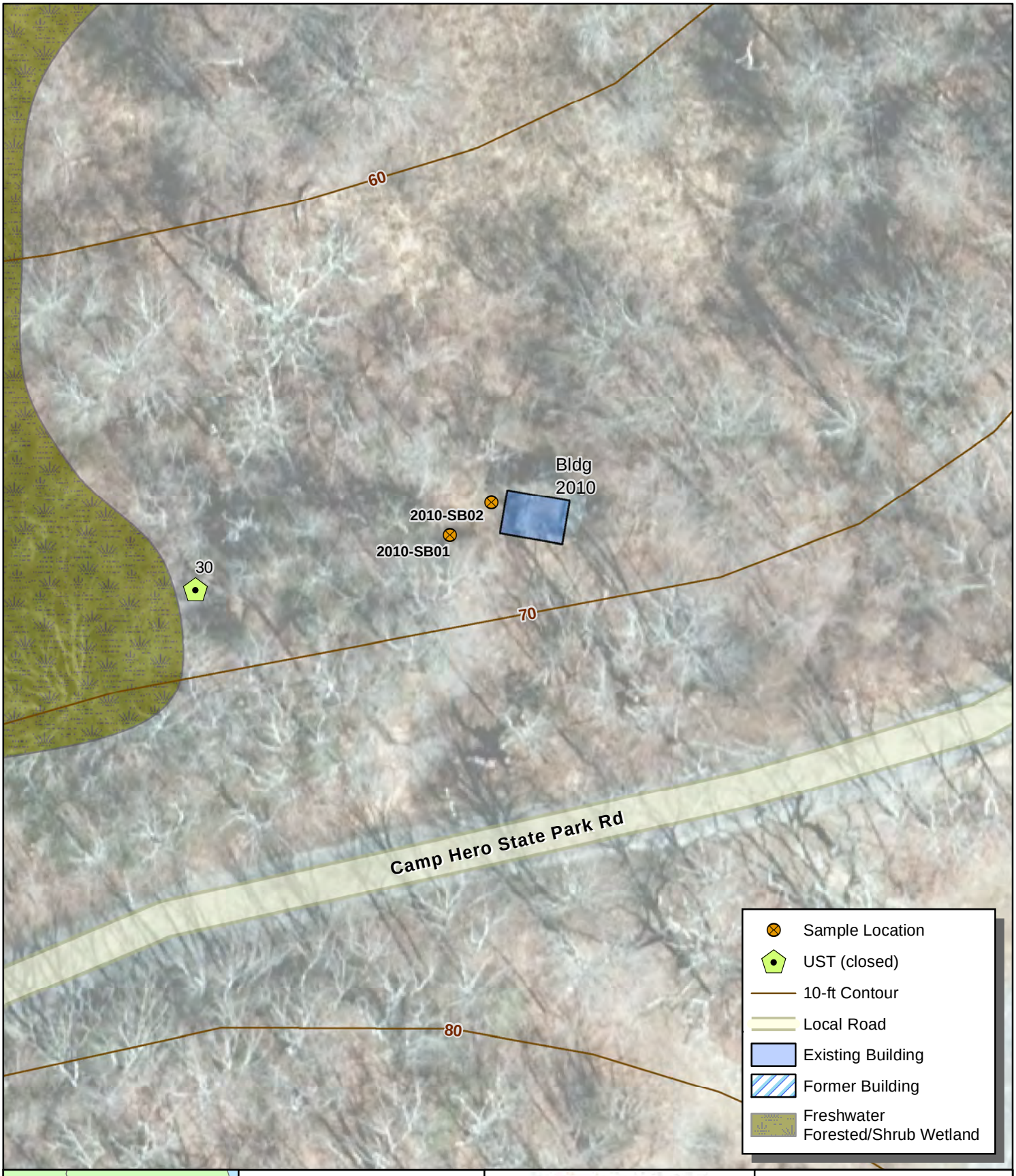
PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-5**

8/26/2016 1:1,200 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-5 Plotting Room 113.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 15 30
Feet

1 inch = 36 feet

NAD 1983 StatePlane Long Island FIPS 3104

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Building 2010 Phase 2 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-6**

MAP LOCATION

N
W E
S

0 20 40
Feet

1 inch = 40 feet

NAD 1983 StatePlane Long Island FIPS 3104

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Building F100C Phase 2 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-7**

9/14/2016 1:480 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-7 Bldg F100C.mxd (USCHL1FP002\Data\Library\Gisprojects\)

MAP LOCATION

N
W E
S

0 15 30
Feet

1 inch = 30 feet

NAD 1983 StatePlane Long Island FIPS 3104

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AST-35 (H-13) Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-8**

9/5/2016 1:360 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-8 AST 35.mxd (USCHL1FP002\Data\Library\Gisprojects\)

MAP LOCATION

N
W E
S

0 12.5 25
Feet

1 inch = 25 feet

NAD 1983 StatePlane Long Island FIPS 3104

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Fuel Pump House and Distribution Line for AST-35 Phase 1 RI Sampling Locations

Camp Hero Phase 1 Technical Memorandum

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-9**

8/26/2016 1:300 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-9 Fuel Pump House.mxd (USCHL1FP002\Data\Library\Gisprojects\)

MAP LOCATION

N
W
E
S

0 15 30

Feet

1 inch = 30 feet

NAD 1983 StatePlane Long Island FIPS 3104

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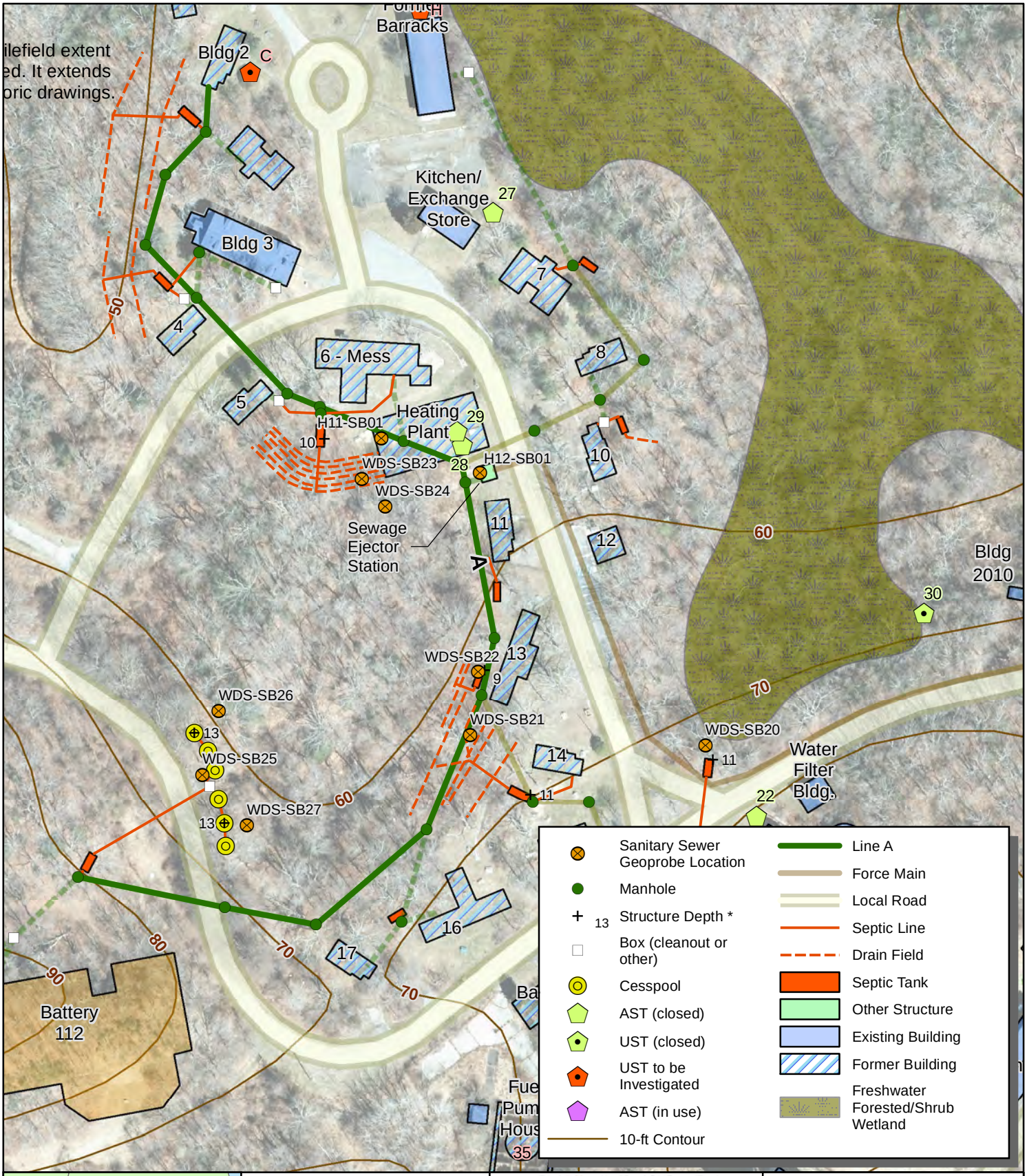
Building 22 (Tank B)
Phase 1 RI Sampling Locations

Camp Hero Phase I Field Invstigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-11**

9/5/2016 1:360 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-11 Bldg 22 - Tank B.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 65 130 Feet

1 inch = 135 feet

NAD 1983 StatePlane Long Island FIPS 3104

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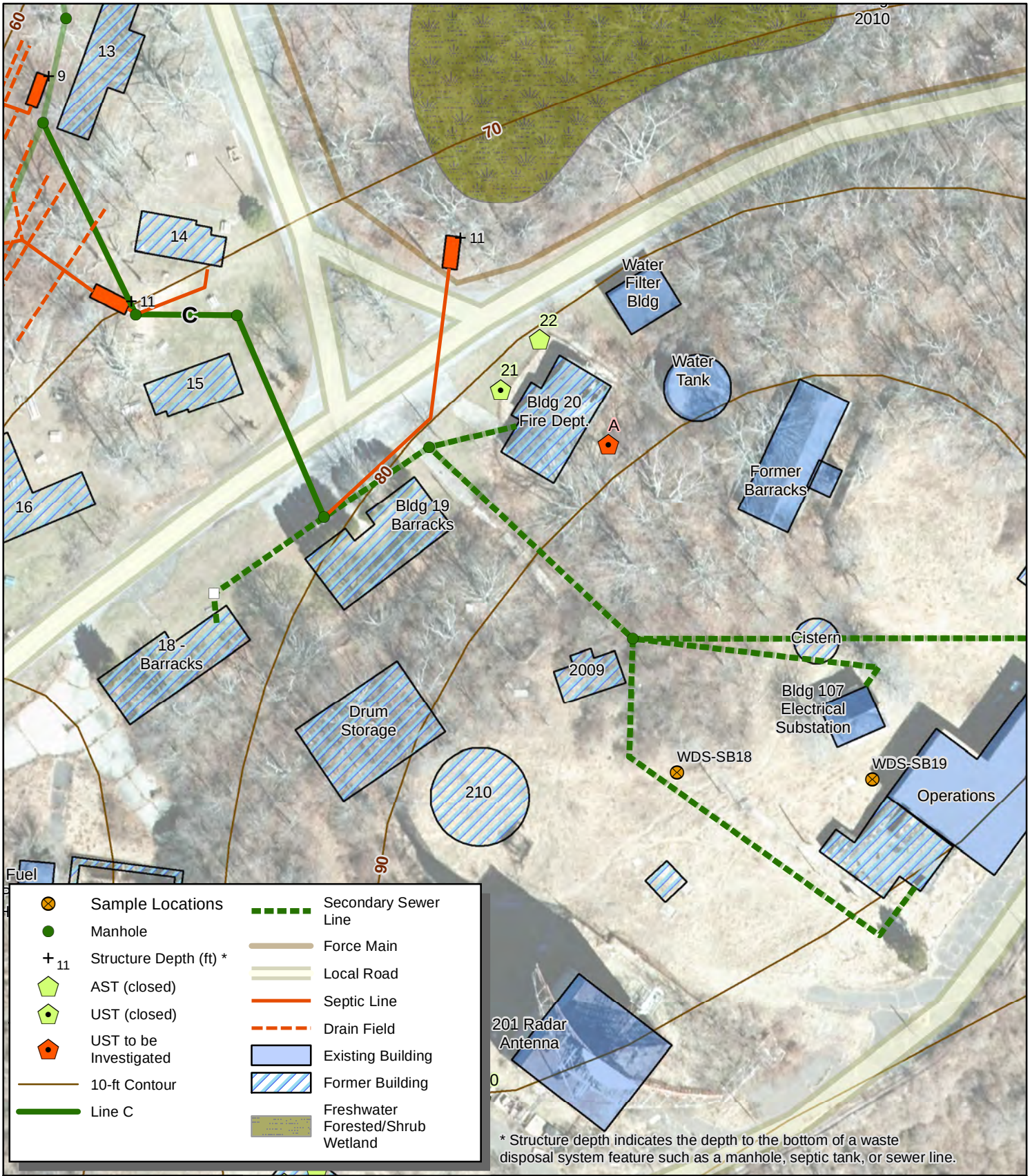
Line A Abandoned Waste Disposal Systems Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-12**

9/19/2016 1:1,620 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-12 SS Line A.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 37.5 75 Feet

1 inch = 75 feet

NAD 1983 StatePlane Long Island FIPS 3104

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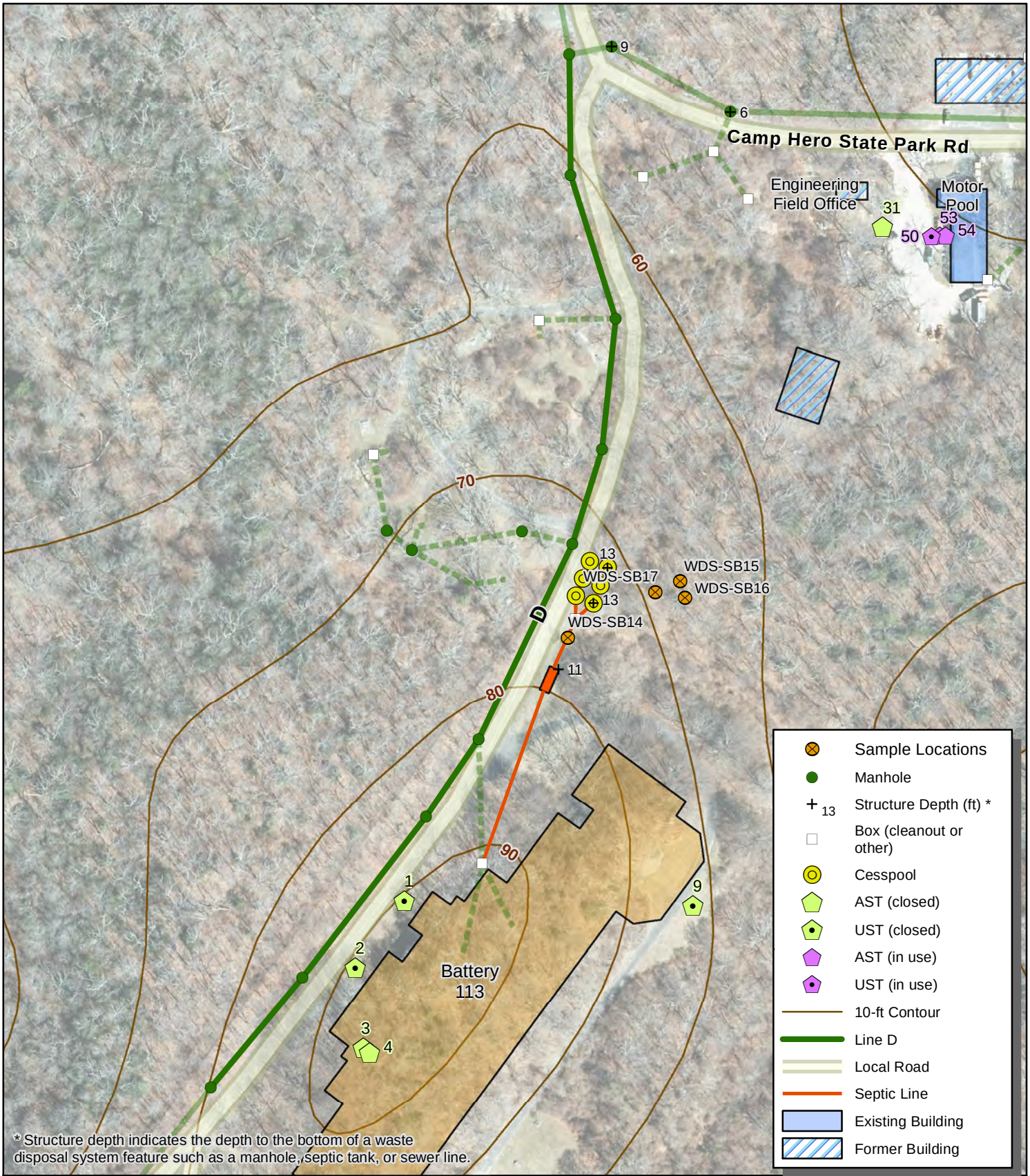
Line C Abandoned Waste Disposal Systems Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-13**

8/29/2016 1:900 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-13 SS Line C.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 70 140 Feet

1 inch = 140 feet

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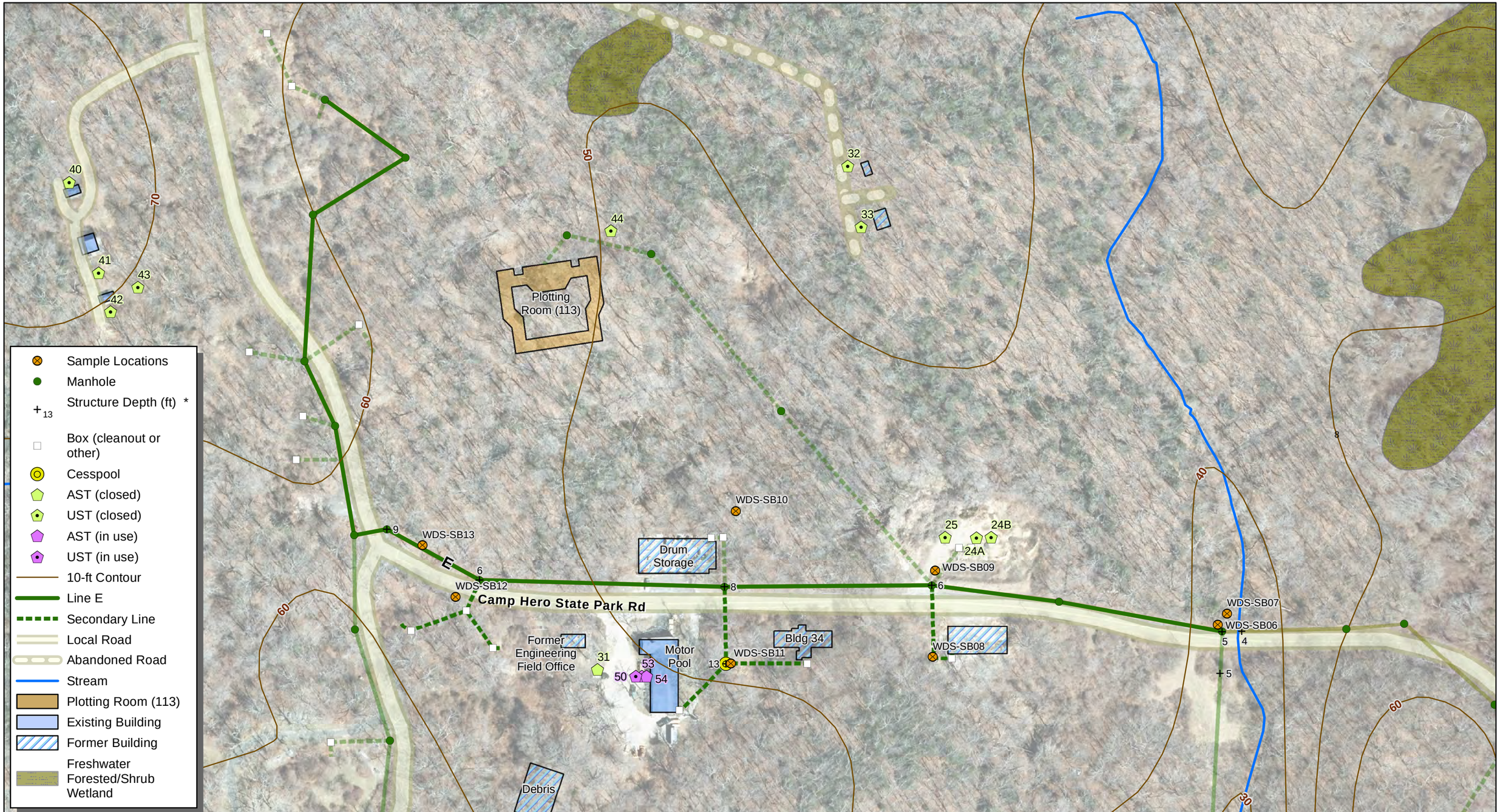
Line D Abandoned Waste Disposal Systems Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-14**

8/31/2016 1:1,680 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-14 SS Line D.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

* Structure depth indicates the depth to the bottom of a waste disposal system feature such as a manhole, septic tank, or sewer line.

Surface water features obtained from National Hydrography Dataset (NHD) Dates of publication vary.

Wetlands shapes from U. S. Fish and Wildlife Service. 2015. National Wetlands Inventory website. http://www.fws.gov/wetlands/

NAD 1983 StatePlane Long Island FIPS 3104

N W E S

0 62.5 125 250 Feet

1 inch = 125 feet

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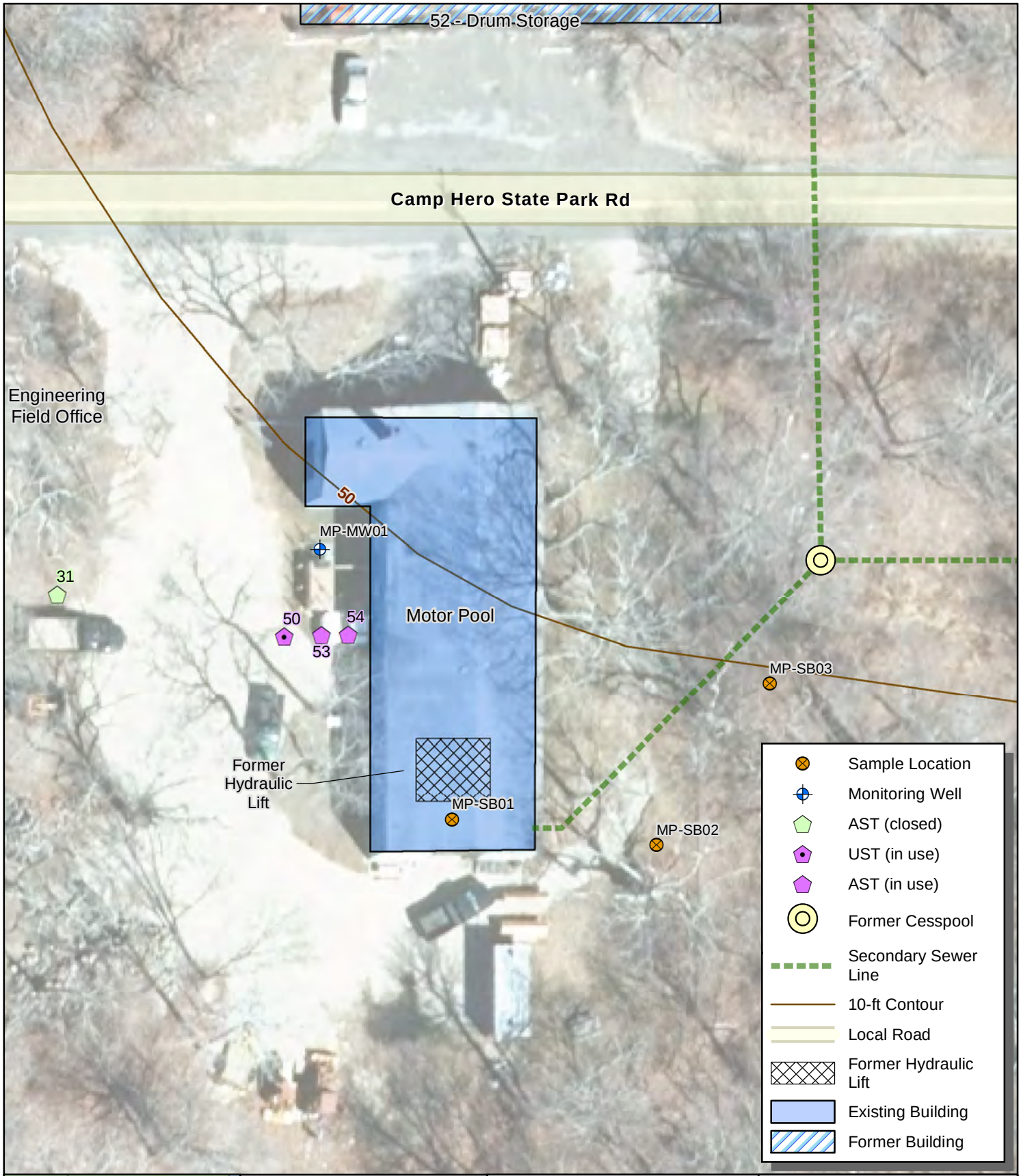
Line E Abandoned Waste Disposal Systems Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-15**

9/19/2016 1:1,500 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-15 SS Line E.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W E
S

0 15 30
Feet

1 inch = 30 feet

NAD 1983 StatePlane Long Island FIPS 3104

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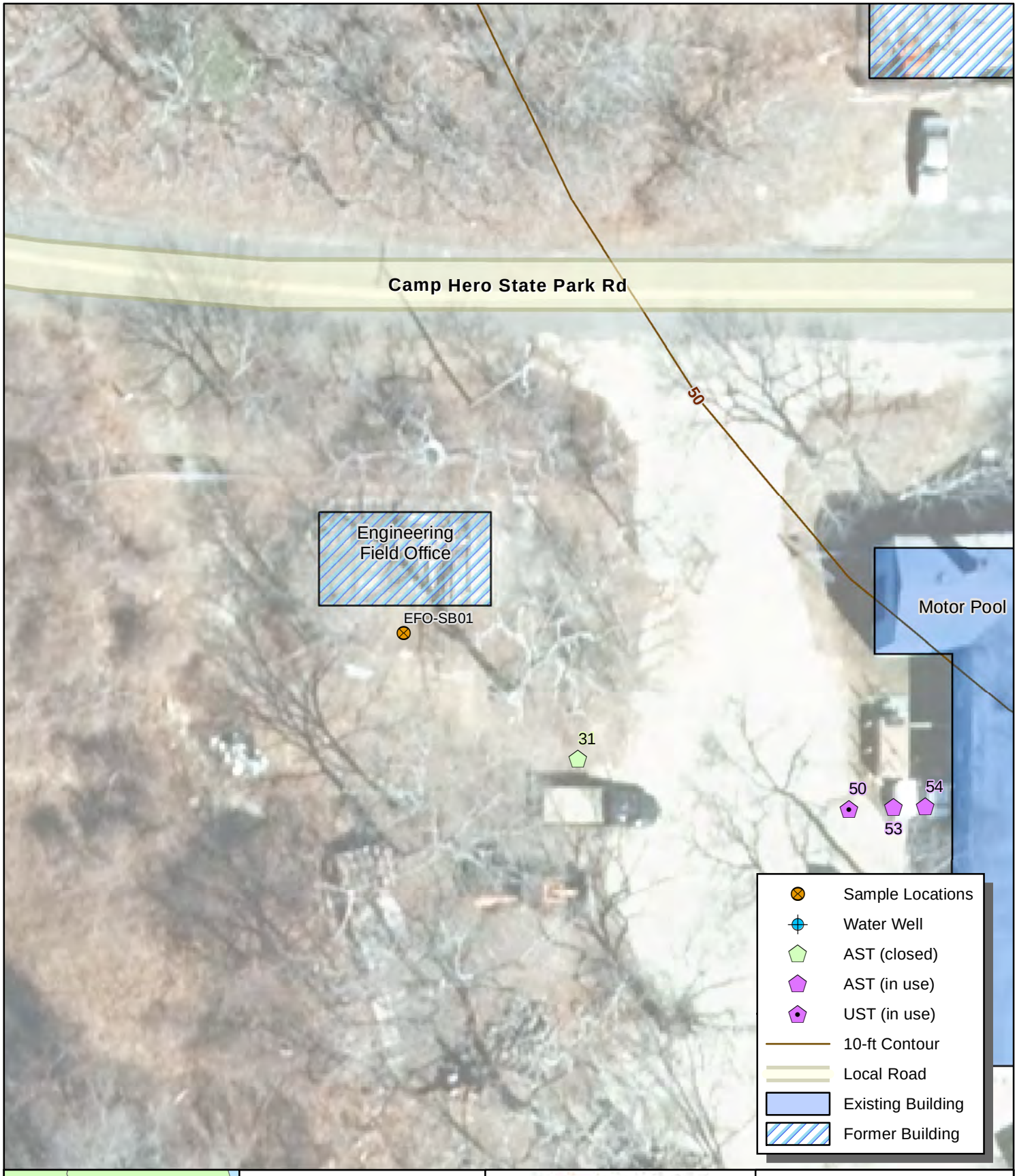
Motor Pool
Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-17**

9/8/2016 1:360 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-17 Motor Pool.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W E
S

0 12.5 25

Feet

1 inch = 25 feet

NAD 1983 StatePlane Long Island FIPS 3104

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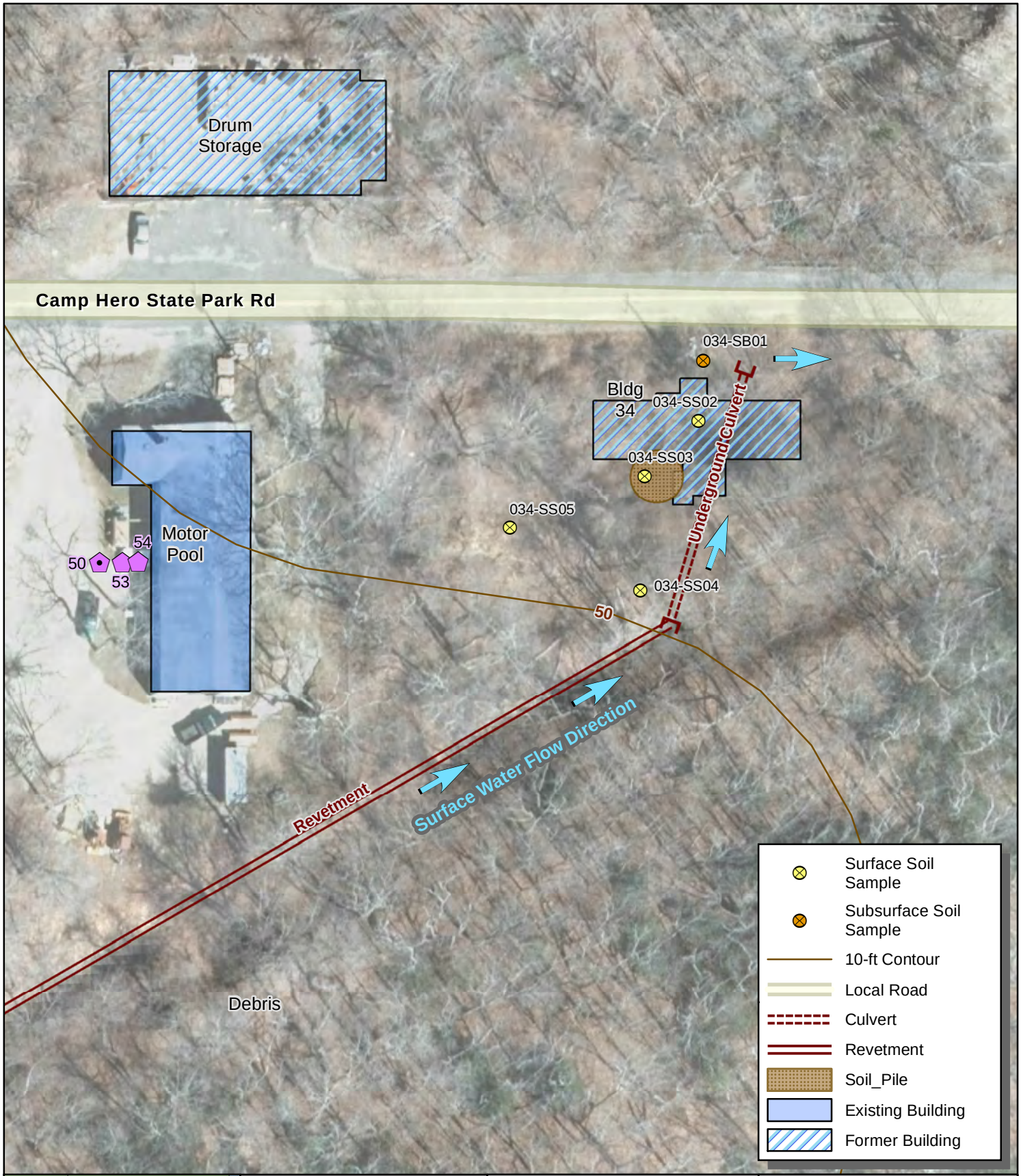
Engineering Field Office
Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-18**



MAP LOCATION

N
W E
S

0 25 50

Feet

1 inch = 50 feet

NAD 1983 StatePlane Long Island FIPS 3104

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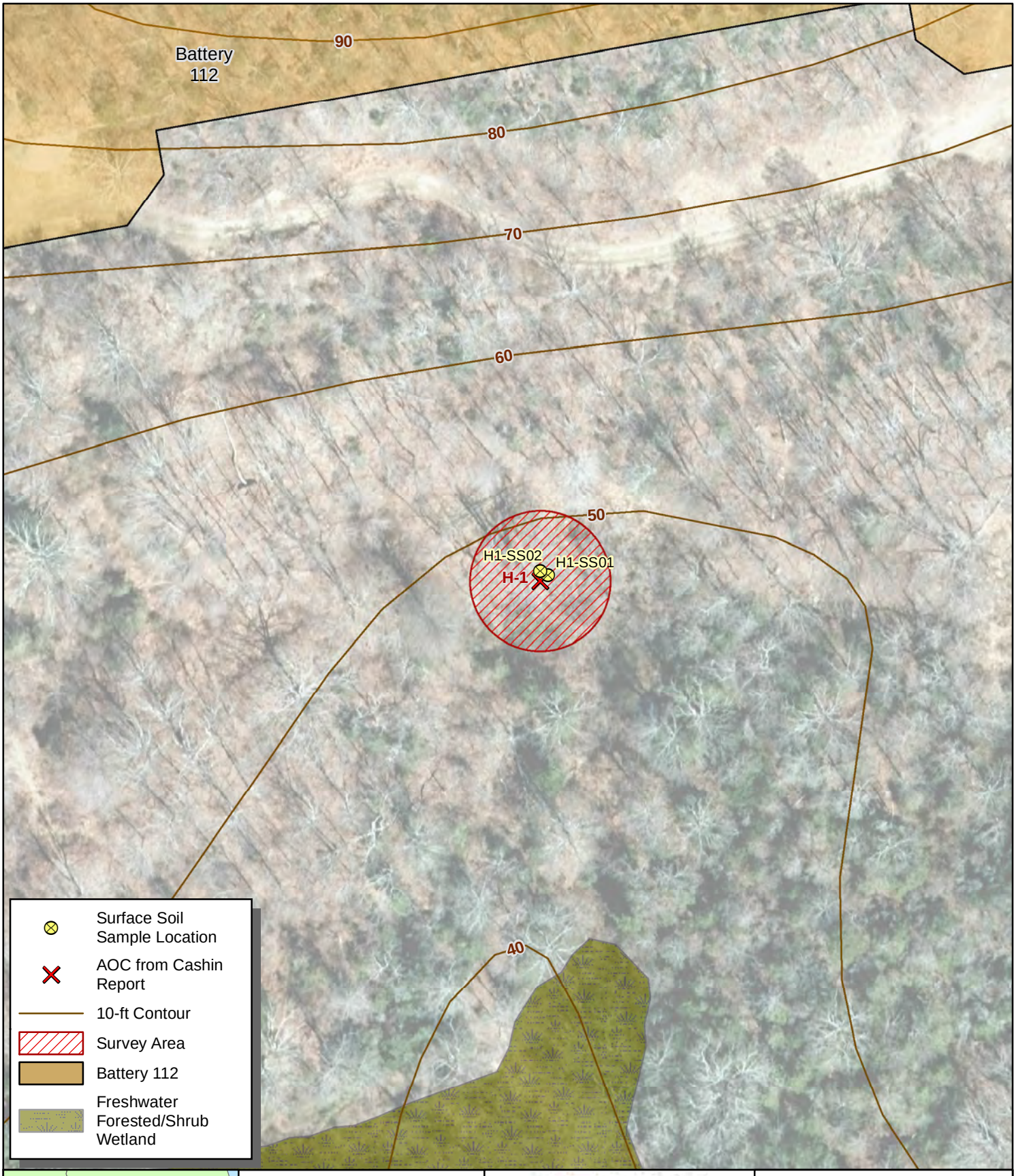
Former Building 34
Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-19**

8/26/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-19 Building 34.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 30 60
Feet

1 inch = 65 feet

NAD 1983 StatePlane Long Island FIPS 3104

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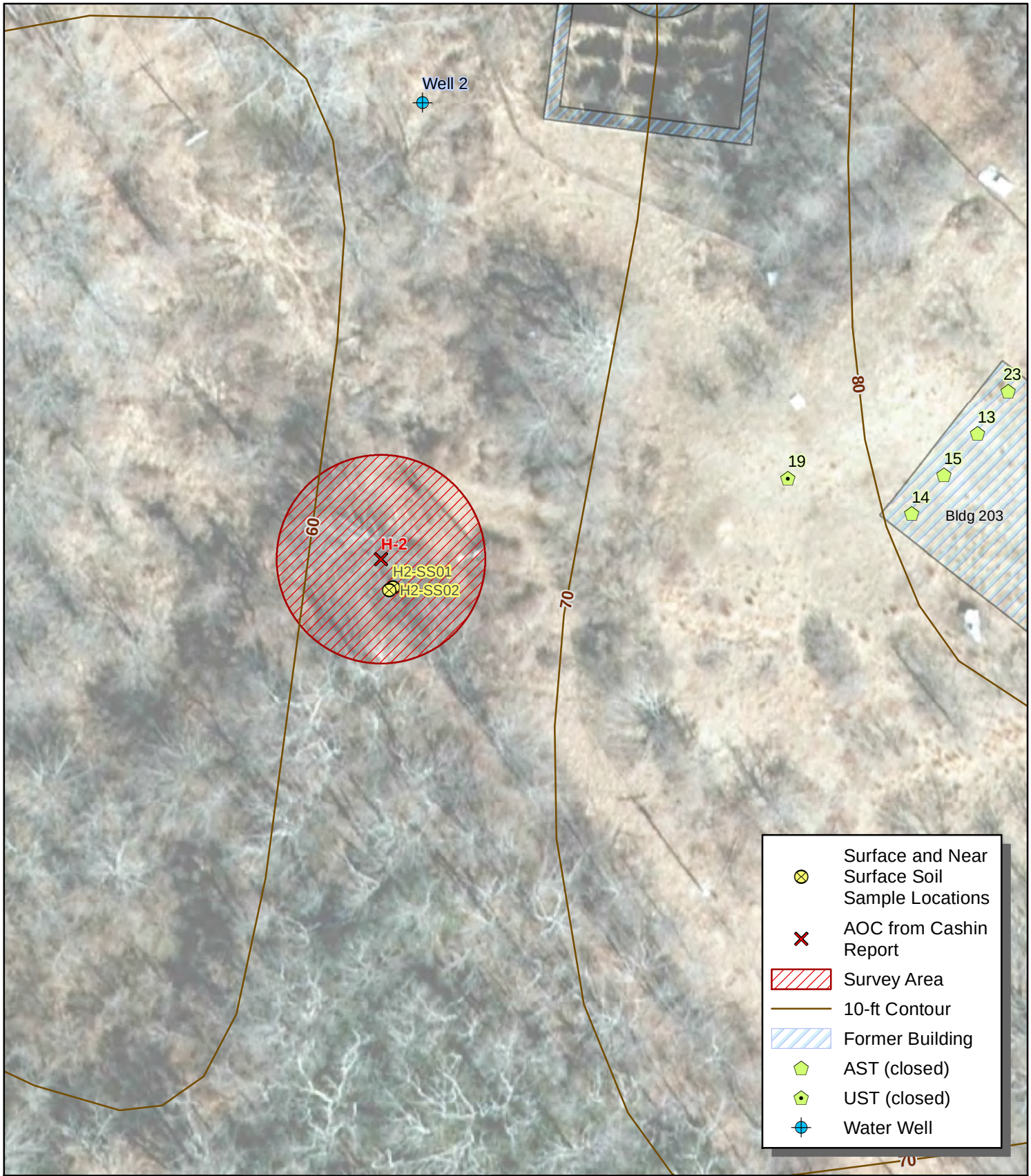
H-1 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-20**

9/8/2016 1:780 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-20 H-1.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W E
S

0 20 40 Feet

1 inch = 40 feet

NAD 1983 StatePlane Long Island FIPS 3104

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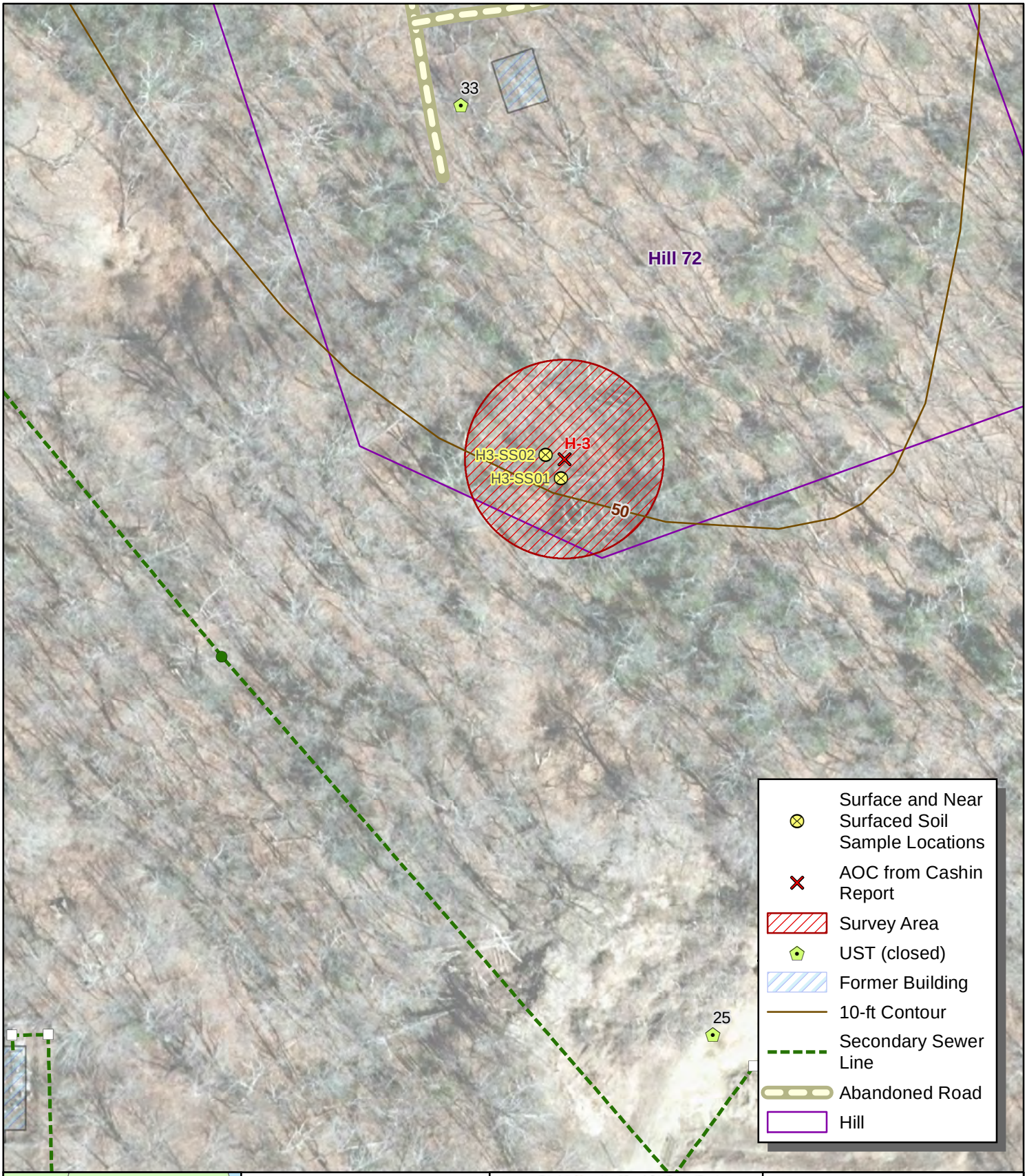
H-2 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-21**

9/6/2016 1:480 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-21 H-2.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 30 60

Feet

1 inch = 60 feet

NAD 1983 StatePlane Long Island FIPS 3104

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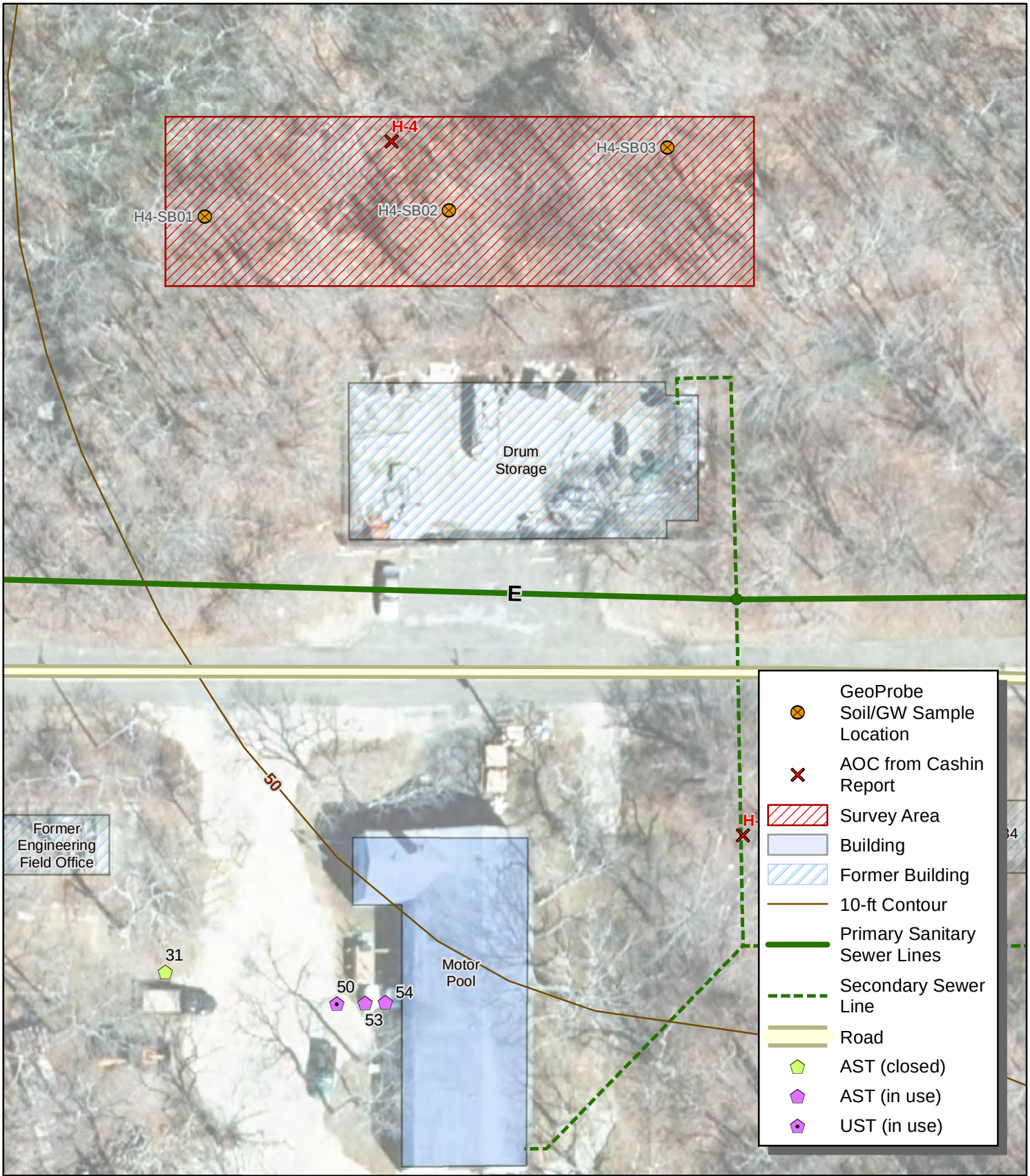
H-3 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-22**

9/7/2016 1:720 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-22 H-3.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 20 40 Feet

1 inch = 40 feet

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H-4 Phase 1 RI Sampling Locations

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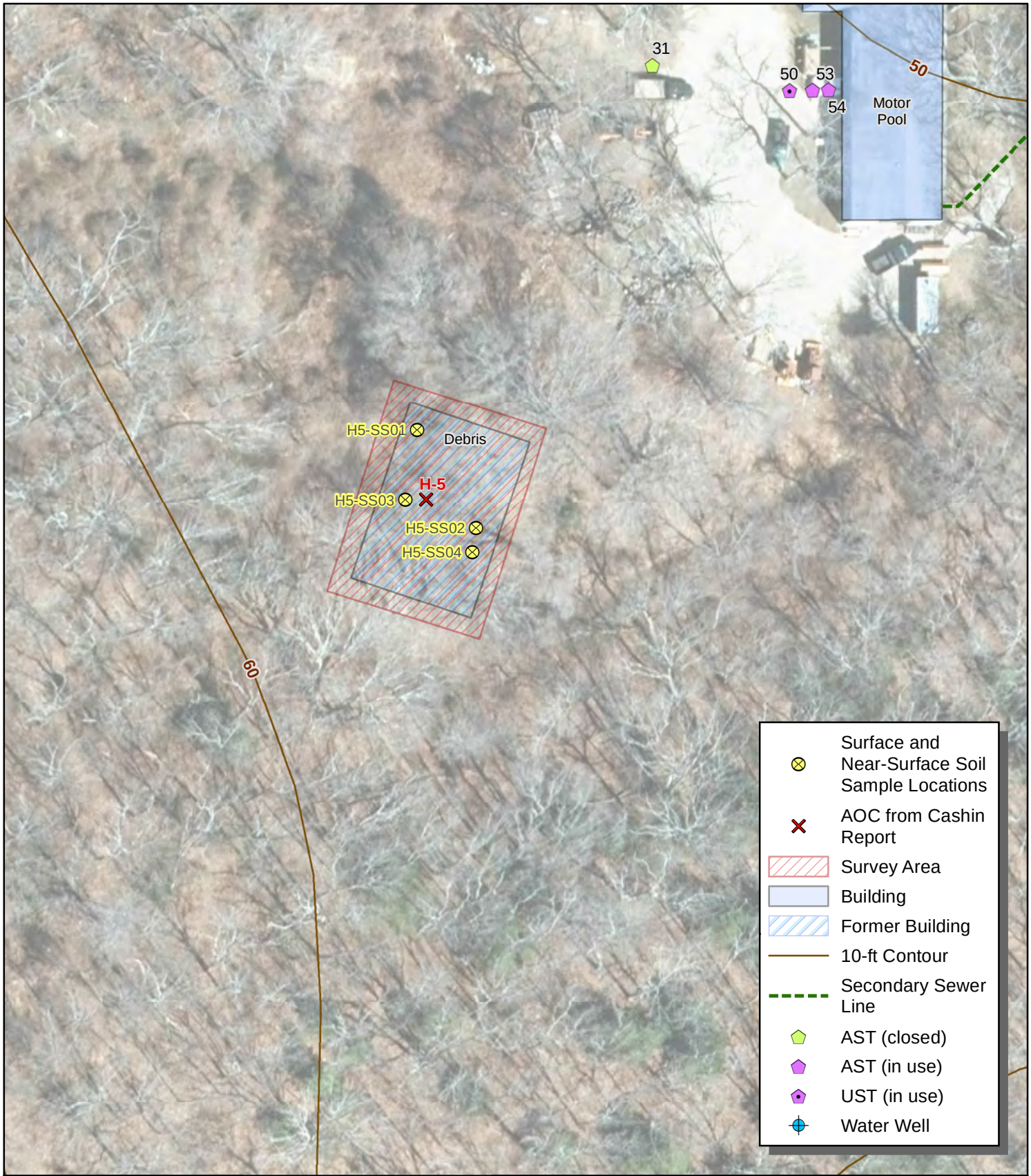
60443903	DDS	September 2016	**Figure 4-23**

9/2/2016 1:480 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-23 H-4.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
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0 25 50

Feet

1 inch = 50 feet

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H-5 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

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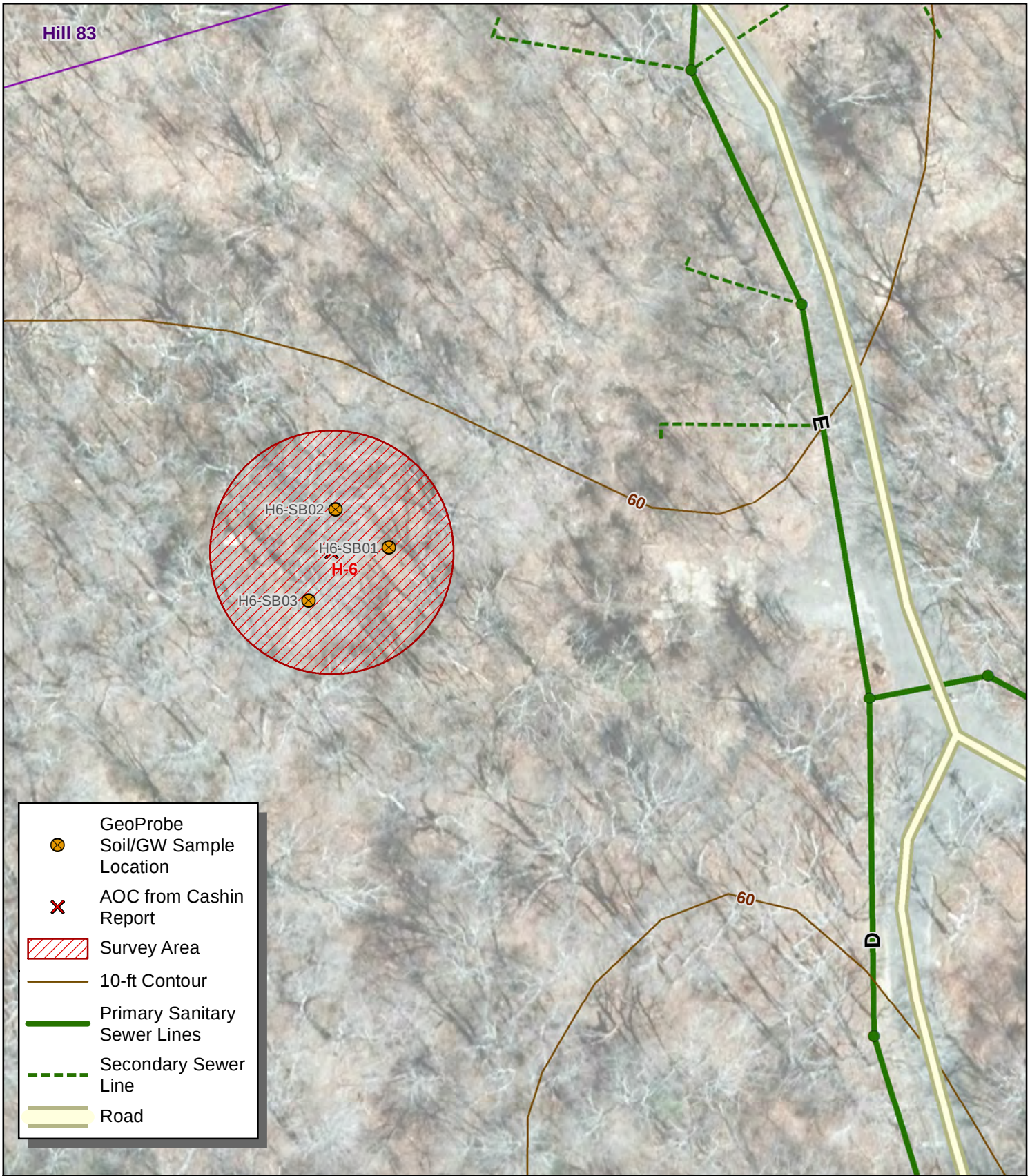
60443903	DDS	September 2016	**Figure 4-24**

9/7/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-24 H-5.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

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0 25 50

Feet

1 inch = 50 feet

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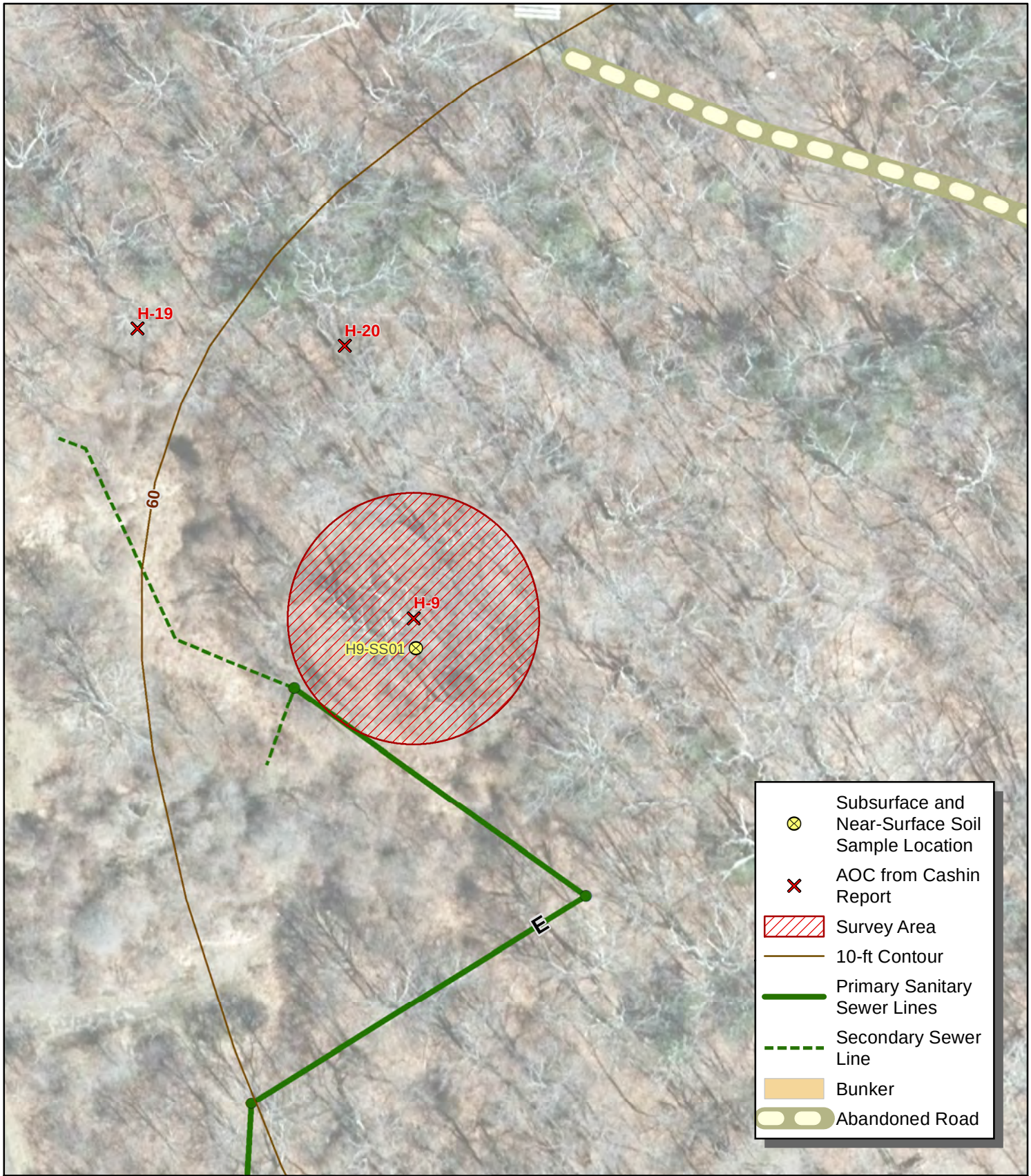
H-6 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-25**



MAP LOCATION

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0 25 50

Feet

1 inch = 50 feet

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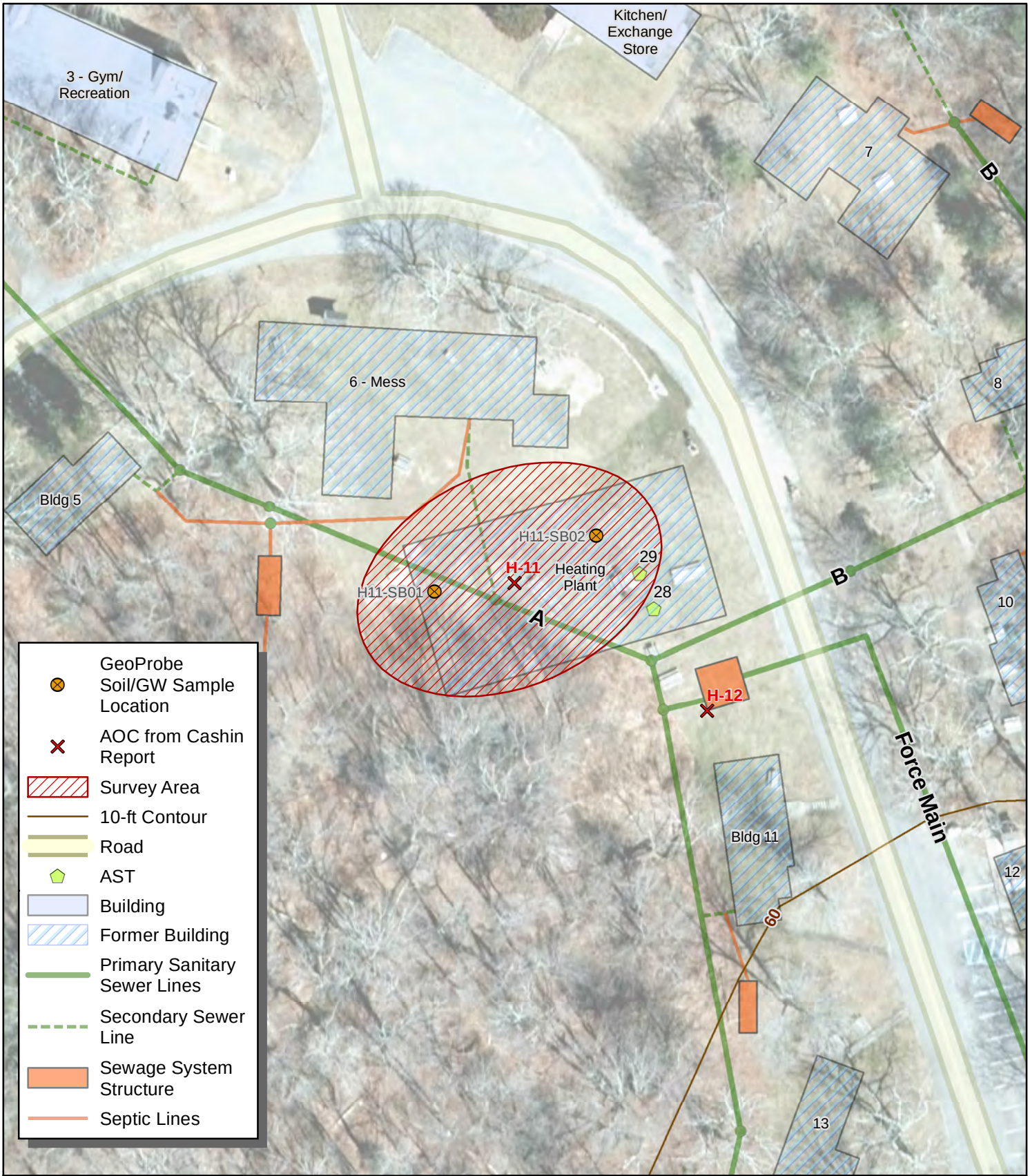
H-9 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-26**

9/2/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-26 H-9.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
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0 25 50

Feet

1 inch = 50 feet

NAD 1983 StatePlane Long Island FIPS 3104

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H-11 Phase 1 RI Sampling Locations

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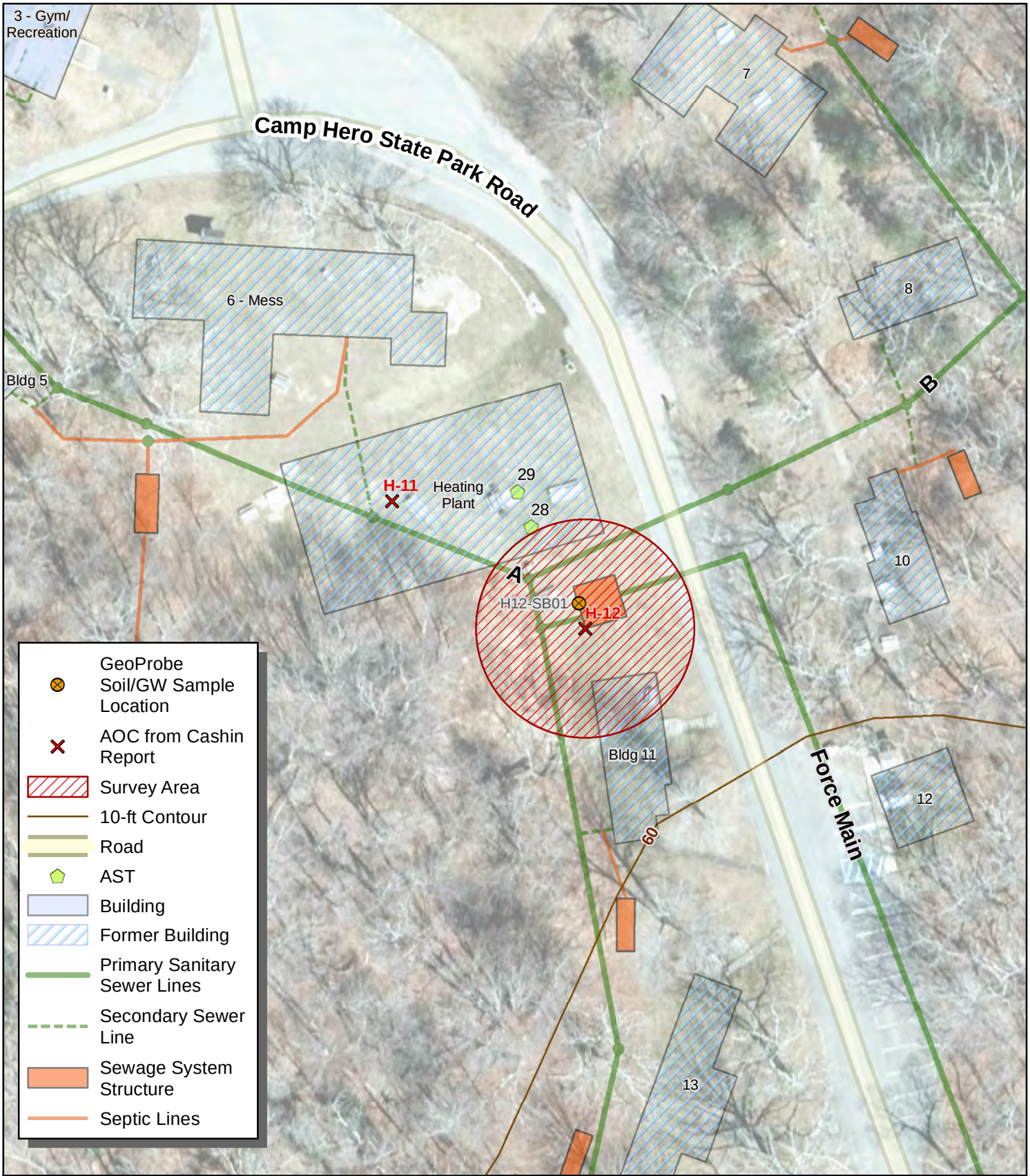
PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-27**

9/6/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-27 H-11.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
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0 25 50

Feet

1 inch = 50 feet

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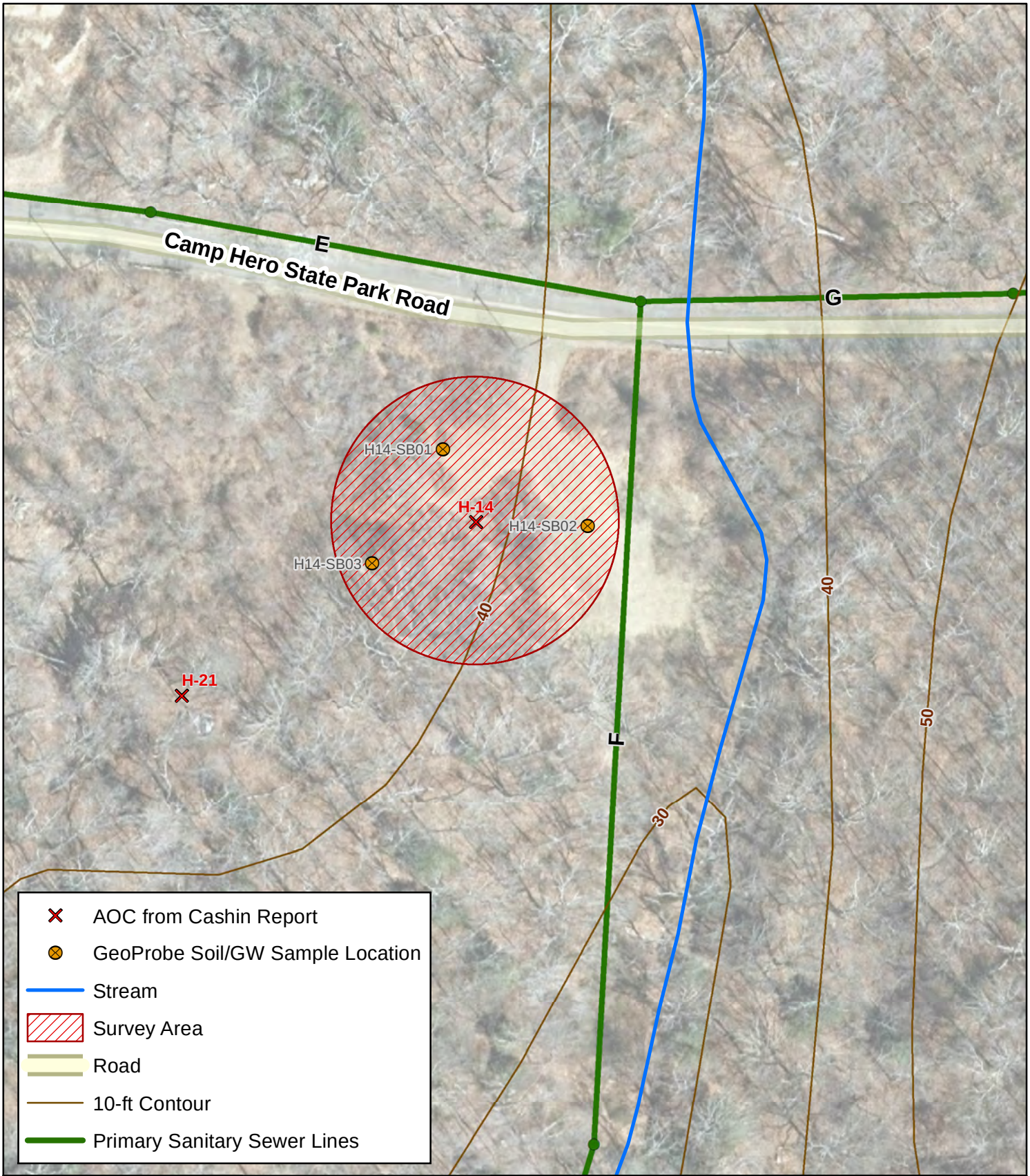
H-12 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-28**

9/6/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-28 H-12.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 30 60

Feet

1 inch = 60 feet

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H-14 Phase 1 RI Sampling Locations

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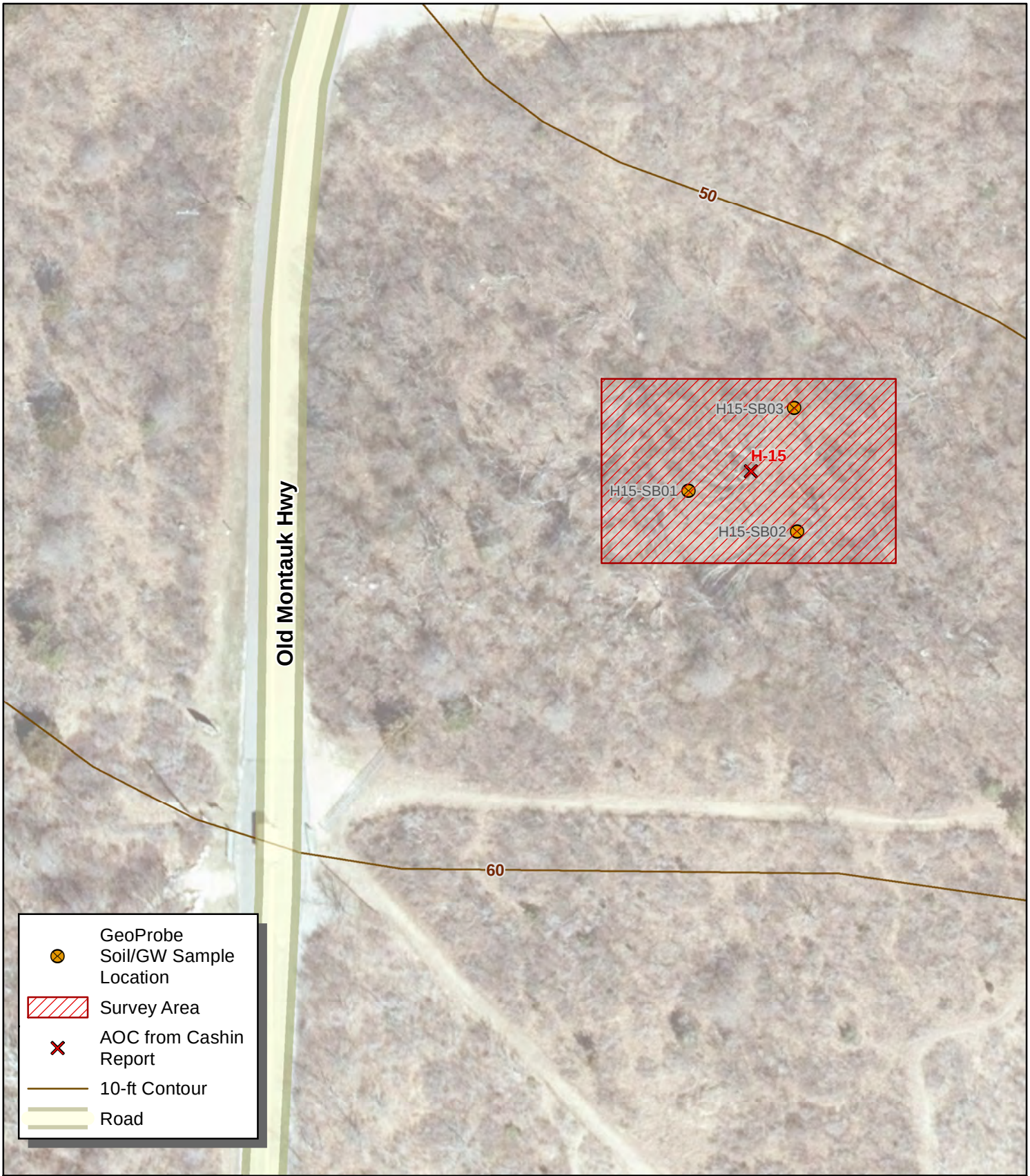
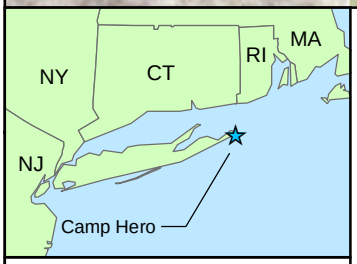
PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-29**

9/7/2016 1:720 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-29 H-14.mxd (USCHL1FP002\Data\Library\Gisprojects\)





MAP LOCATION

N
W
E
S

0 25 50

Feet

1 inch = 50 feet

NAD 1983 StatePlane Long Island FIPS 3104

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H-15 Phase 1 RI Sampling Locations

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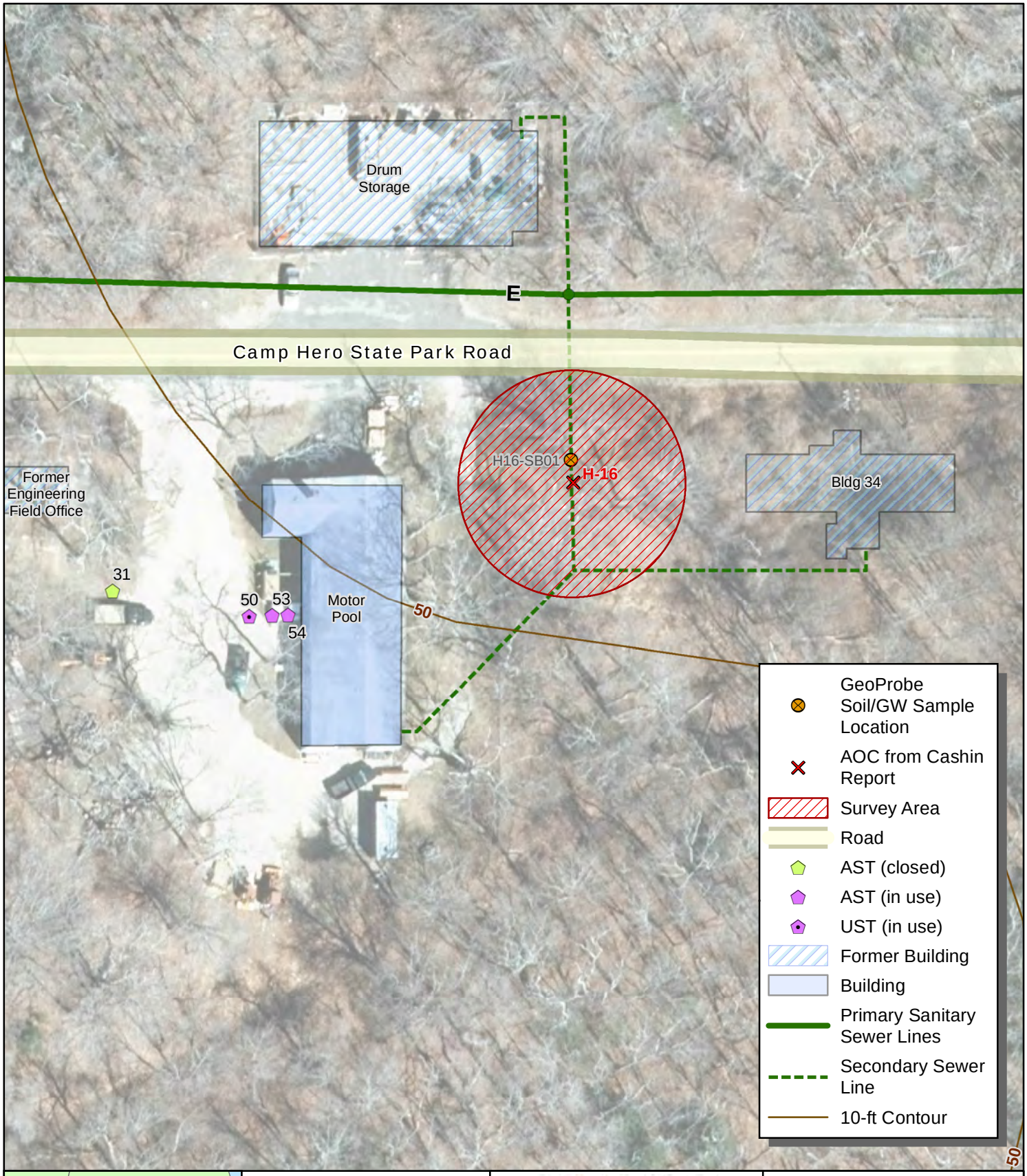
60443903	DDS	September 2016	**Figure 4-30**

9/2/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-30 H-15.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 25 50

Feet

1 inch = 50 feet

NAD 1983 StatePlane Long Island FIPS 3104

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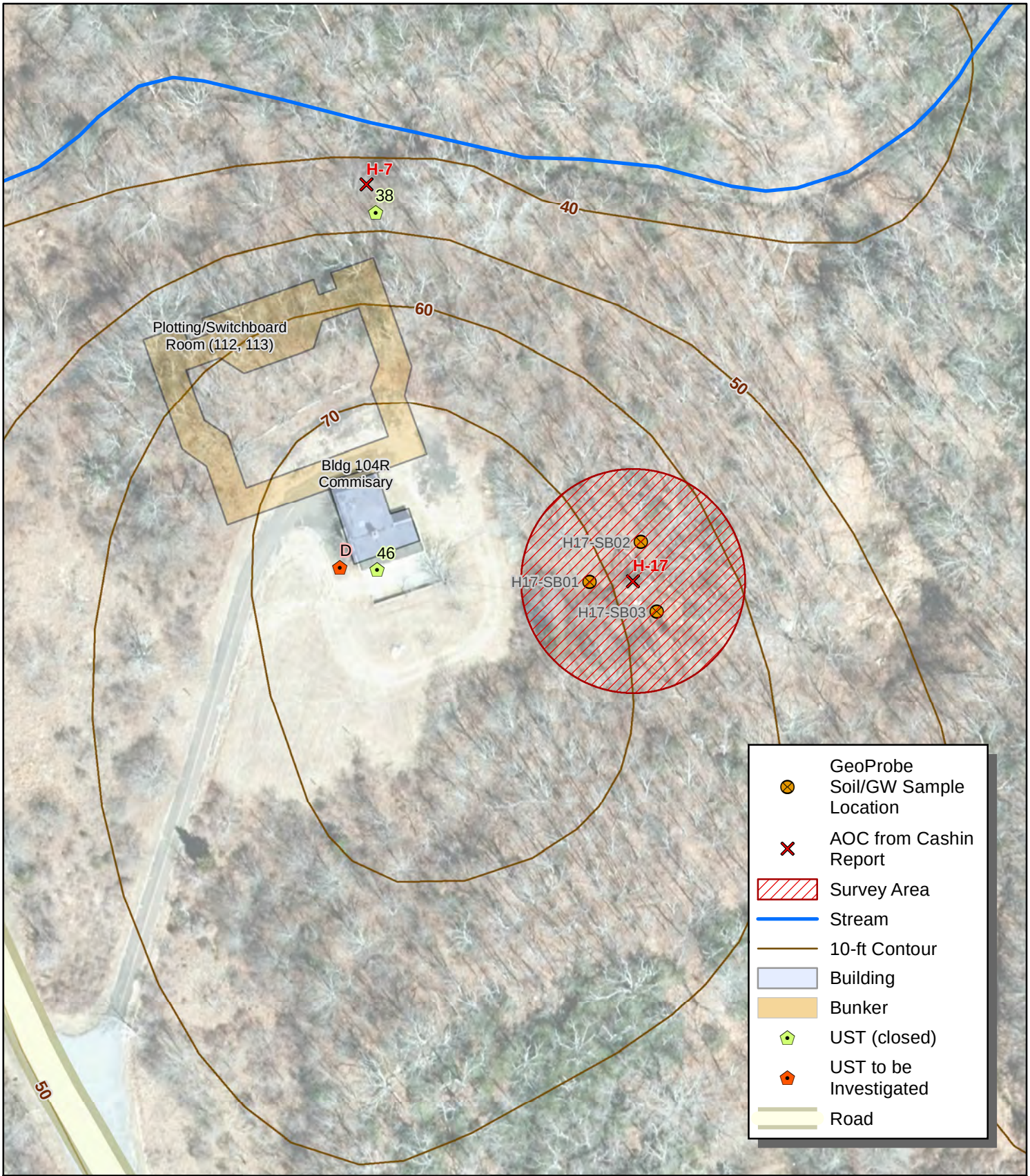
H-16 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-31**

9/2/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-31 H-16.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 37.5 75

Feet

1 inch = 75 feet

NAD 1983 StatePlane Long Island FIPS 3104

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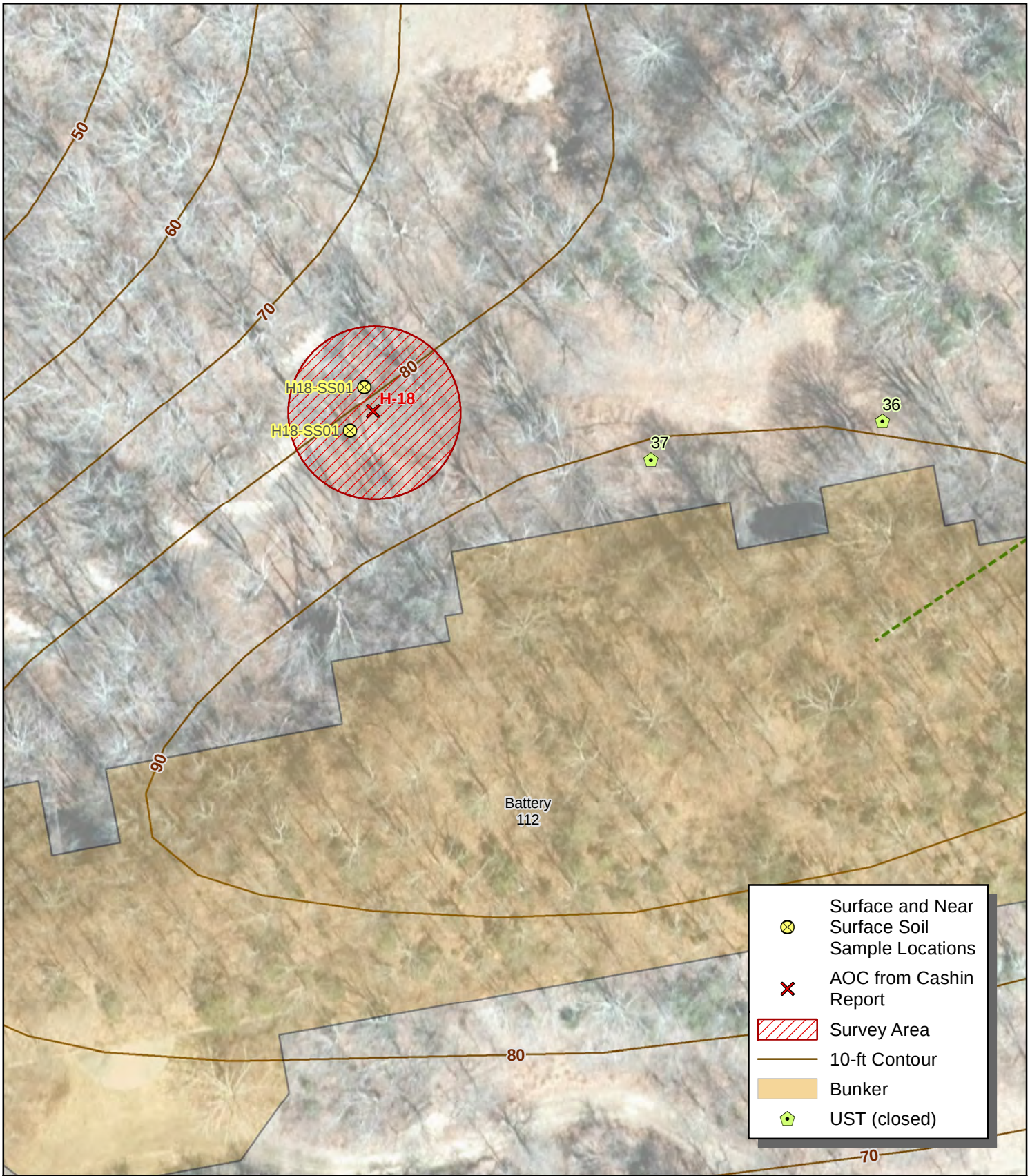
H-17 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-32**

9/2/2016 1:900 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-32 H-17.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 25 50

Feet

1 inch = 50 feet

NAD 1983 StatePlane Long Island FIPS 3104

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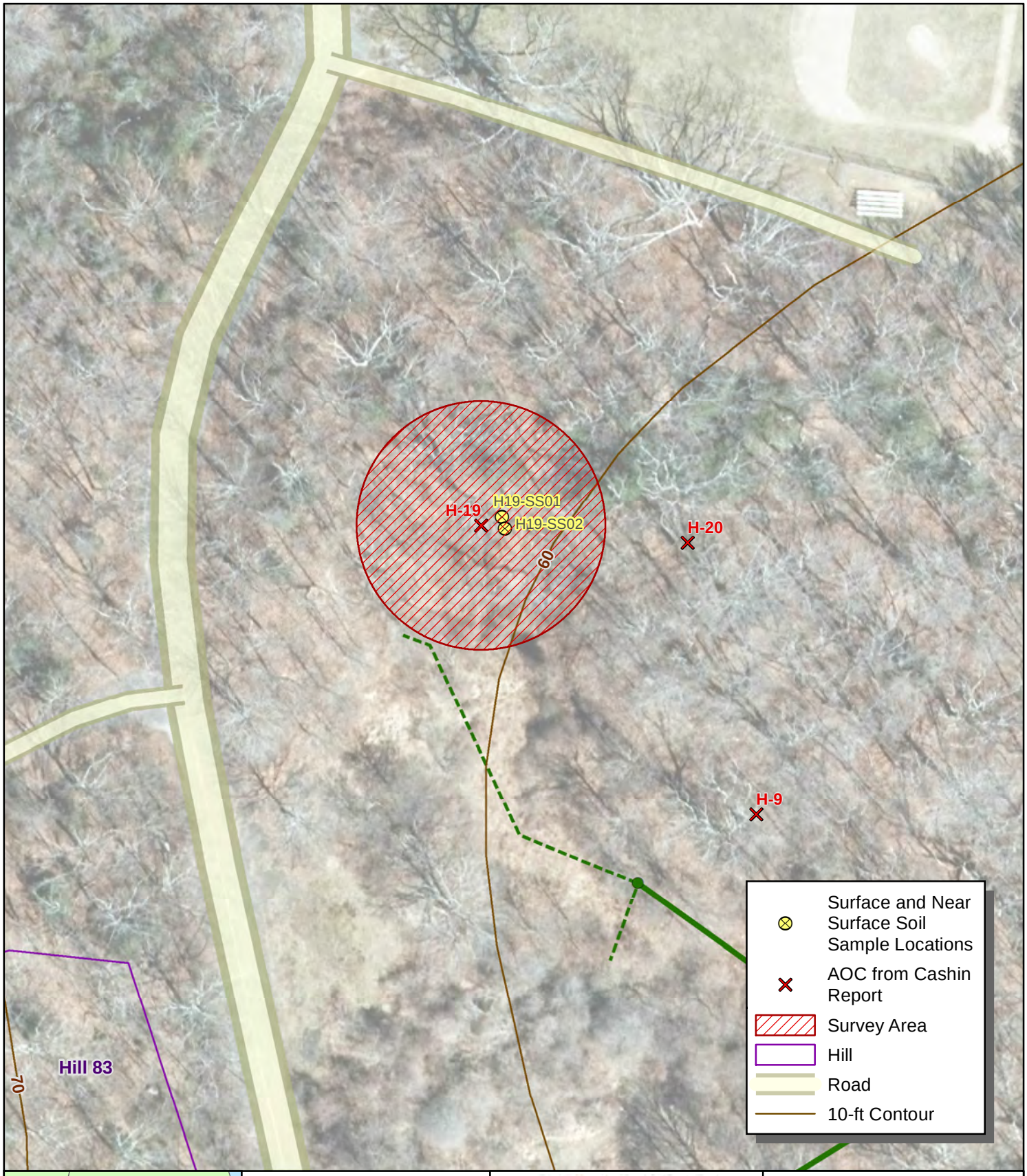
H-18 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-33**

9/21/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-33 H-18.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 25 50

Feet

1 inch = 50 feet

NAD 1983 StatePlane Long Island FIPS 3104

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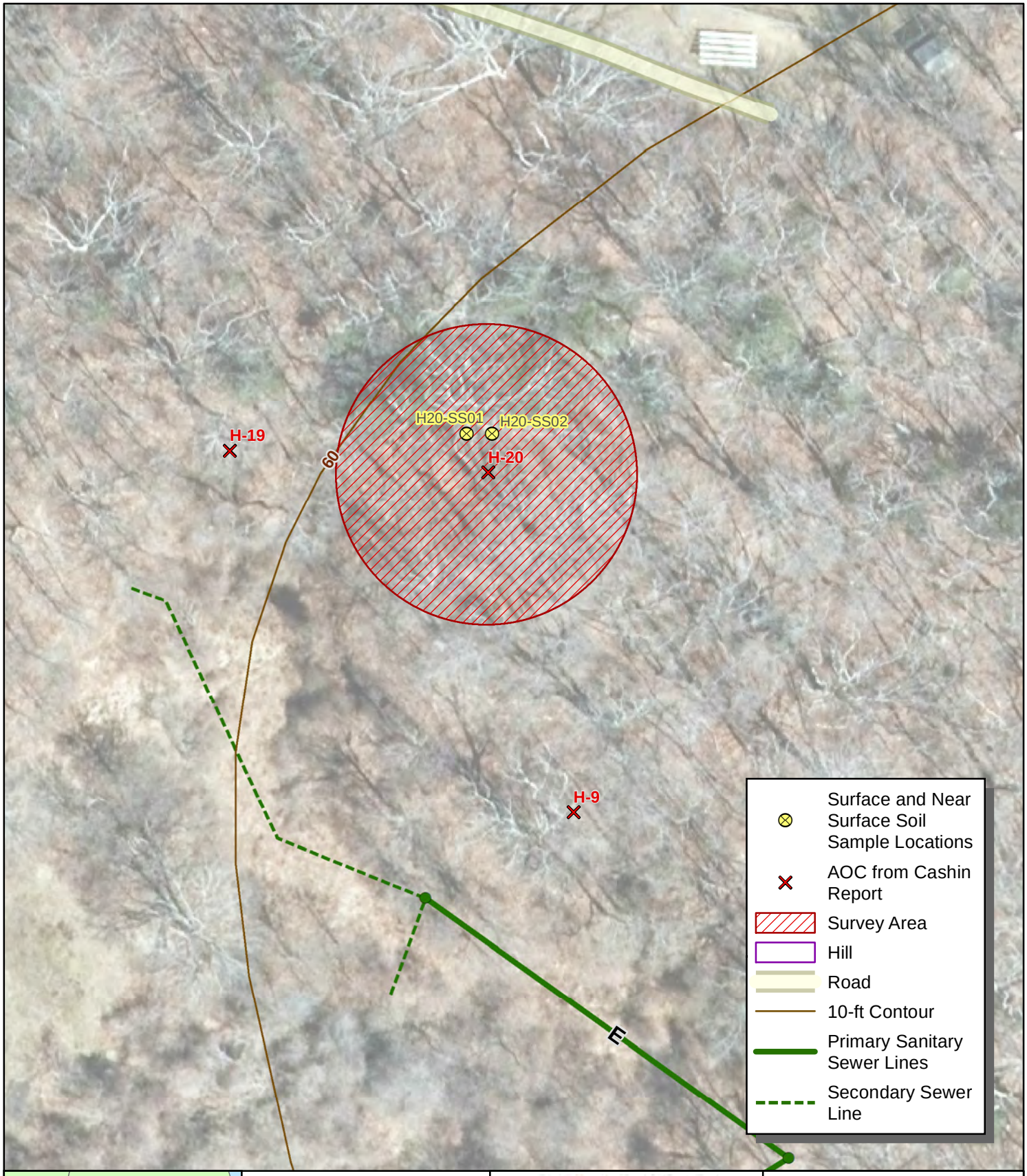
H-19 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-34**

9/2/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-34 H-19.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 20 40

Feet

1 inch = 40 feet

NAD 1983 StatePlane Long Island FIPS 3104

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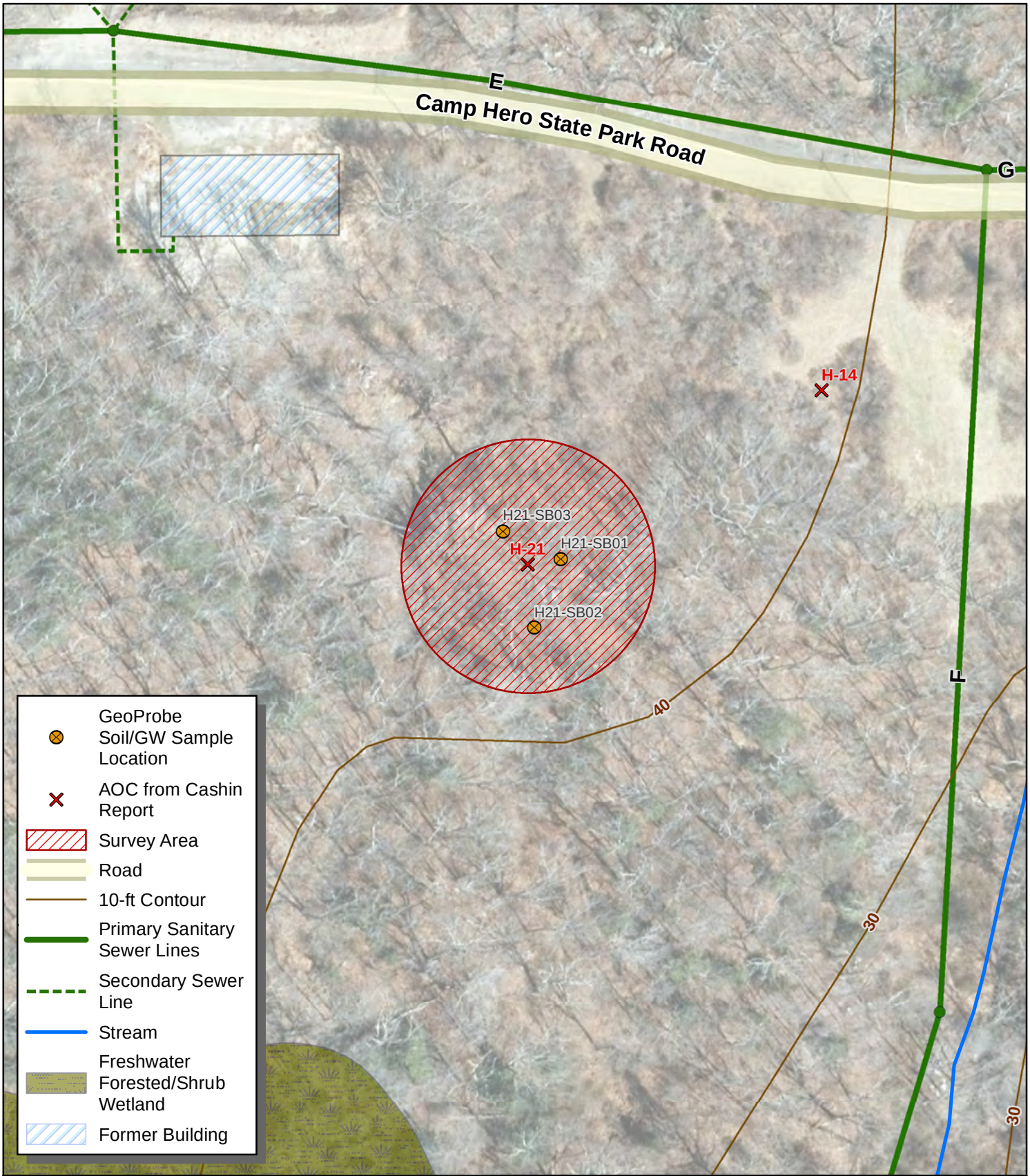
H-20 Phase 1 RI Sampling Locations

Camp Hero Phase I Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-35**



MAP LOCATION

N
W
E
S

0 30 60

Feet

1 inch = 60 feet

NAD 1983 StatePlane Long Island FIPS 3104

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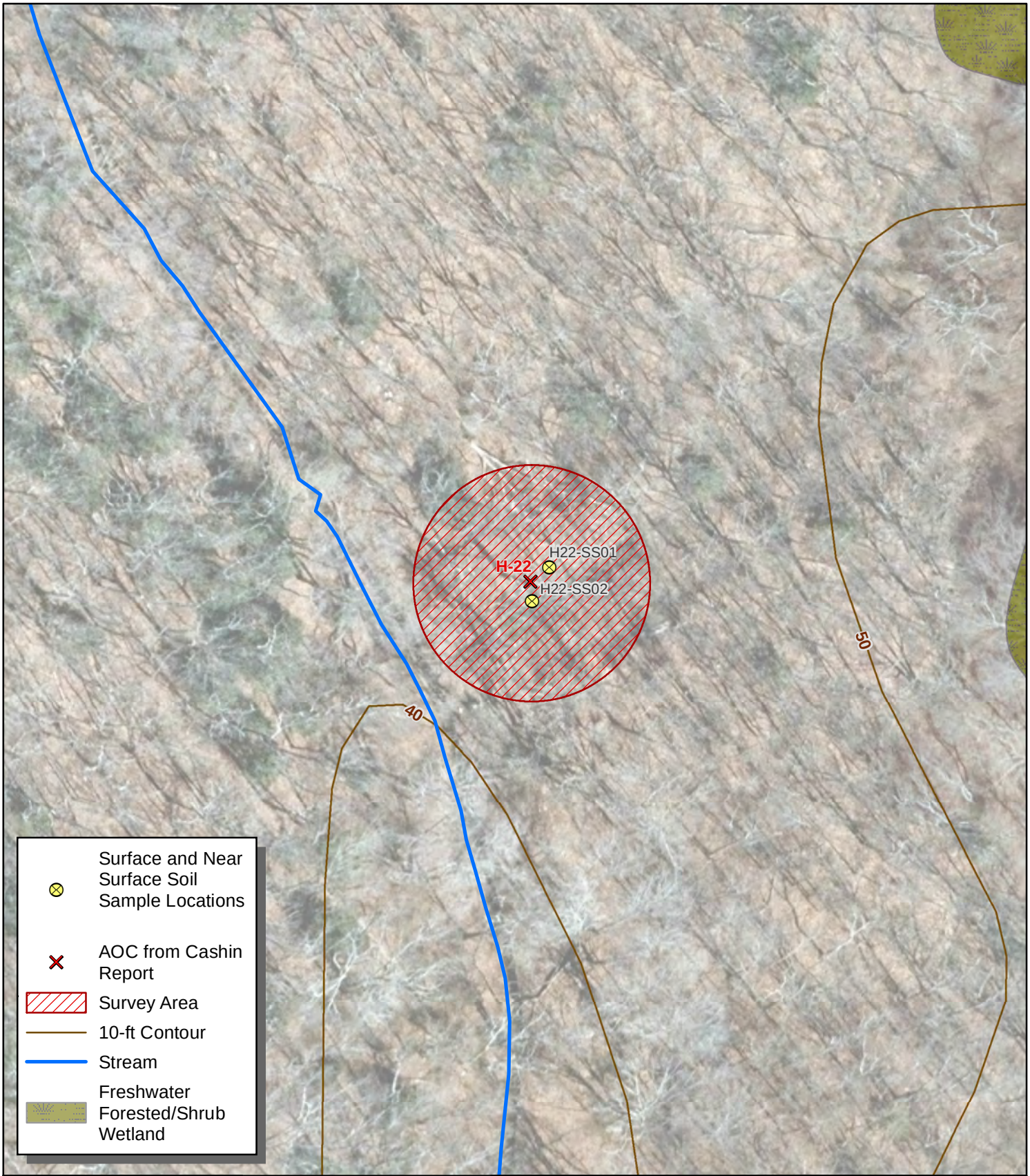
H-21 Phase 1 RI Sampling Locations

Camp Hero Phase I field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-36**

9/2/2016 1:720 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-36 H-21.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 25 50

Feet

1 inch = 50 feet

NAD 1983 StatePlane Long Island FIPS 3104

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H-22 Phase 1 RI Sampling Locations

Camp Hero Phase 1 Field Investigation Report

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	September 2016	**Figure 4-37**

9/29/2016 1:600 Y:\Projects\Camp_Hero\Maps\Phase I Draft Final\Fig 4-37 H-22.mxd (USCHL1FP002\Data\Library\Gisprojects\)

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Appendix B

Tables

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Table 2-1. Phase I Soil and Liquid IDW Results

Analysis	Method	Toxicity Characteristic Regulatory Level	Units	Soil IDW CH-ST-082016		Liquid IDW CH-WW-082016	
				Result	Qualifier	Result	Qualifier
Reactivity, Corrosivity, Ignitability, pH							
Cyanide, Reactive	SW 7.3.3.2	250	mg/kg	1.0	UQ	0.050	UQ
Ignitability	SW 1030	-	mm/sec	0.1	U	70	U
Sulfide, Reactive	SW 7.3.4.2	500	mg/kg	2.0	UQ	0.10	UQ
Hydrogen Ion (pH)	SW 9045D	2 ≤ pH ≤ 12.5	pH	7.64		9.83	
Temperature	NA	-	°C	25.4		-	
TCLP: RCRA Metals, ICP/OES							
Arsenic	SW 6010C	5000	µg/L	37	JX	23	JG
Barium	SW 6010C	100000	µg/L	550		220	
Cadmium	SW 6010C	1000	µg/L	93		1.9	J
Chromoim	SW 6010C	5000	µg/L	140	X	98	
Lead	SW 6010C	5000	µg/L	93	JX	36	J
Selenium	SW 6010C	1000	µg/L	30	UX	30	U
Silver	SW 6010C	5000	µg/L	120		10	U
TCLP: RCRA Metals, Mercury							
Mercury	SW 7470A	200	µg/L	0.1	U	0.26	
TCLP: RCRA SVOCs							
2,4,5-Trichlorophenol	SW 8270D	400000	µg/L	12	U	12	U
2,4,6-Trichlorophenol	SW 8270D	2000	µg/L	5.0	U	5.0	U
2,4-Dinitrotoluene	SW 8270D	130	µg/L	5.0	U	5.0	U
2-Methylphenol	SW 8270D	200000	µg/L	5.0	U	5.0	U
3/4 Methylphenol	SW 8270D	200000	µg/L	25	U	25	U
Hexachlorobenzene	SW 8270D	130	µg/L	5.0	U	5.0	U
Hexachlorobutadiene	SW 8270D	500	µg/L	5.0	U	5.0	U
Hexachloroethane	SW 8270D	3000	µg/L	5.0	U	5.0	U
Nitrobenzene	SW 8270D	2000	µg/L	12	U	12	U
Pentachlorophenol	SW 8270D	100000	µg/L	5.0	UY	5.0	UY
Pyridine	SW 8270D	25000	µg/L	120	UXY	120	UY
TCLP: RCRA VOCs							
1,1-Dichloroethene	SW 8260B	700	µg/L	120	U	120	U
1,2-Dichloroethane	SW 8260B	500	µg/L	120	U	120	U
1,4-Dichlorobenzene	SW 8260B	7500	µg/L	120	U	120	U
Benzene	SW 8260B	500	µg/L	120	U	120	U
Carbon tetrachloride	SW 8260B	500	µg/L	120	U	120	U
Chlorobenzene	SW 8260B	100000	µg/L	120	U	120	U
Chloroform	SW 8260B	6000	µg/L	120	U	120	U
Methyl ethyl ketone	SW 8260B	200000	µg/L	1000	U	1000	U
Tetrachloroethene	SW 8260B	700	µg/L	120	U	120	U
Trichloroethene	SW 8260B	500	µg/L	120	U	120	U
Vinyl chloride	SW 8260B	200	µg/L	120	U	120	U

Notes

G: ICB/CCB result is greater than the MDL.
J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.
Q: % REC exceeded control limits. When applied to sample analytes, denotes an associated LCS recovery that exceeded control limits.
U: The analyte concentration is less than the DL. The result is reported as less than the LOD.
X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.
Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

FINAL

PHASE I INVESTIGATION FIELD REPORT

Remedial Investigation
Former Camp Hero, Montauk, New York

Revision: 1

Prepared for:

US Army Corps of Engineers®

U.S. Army Corps of Engineers, New York District
26 Federal Plaza
New York, New York, 10278

and

U.S. Army Corps of Engineers, New England District
696 Virginia Road
Concord, Massachusetts 01742

Contract Number: W912DR-13-D-0016
Order Number: DB01

Prepared By:

A Joint Venture of AECOM – Tidewater
3101 Wilson Boulevard
Suite 900
Arlington, VA 22201

November 2016

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Figure 4-30 H-15 Phase I RI Sampling Locations
Figure 4-31 H-16 Phase I RI Sampling Locations
Figure 4-32 H-17 Phase I RI Sampling Locations
Figure 4-33 H-18 Phase I RI Sampling Locations
Figure 4-34 H-19 Phase I RI Sampling Locations
Figure 4-35 H-20 Phase I RI Sampling Locations
Figure 4-36 H-21 Phase I RI Sampling Locations
Figure 4-37 H-22 Phase I RI Sampling Locations

ACRONYMS AND ABBREVIATIONS

µg/kg	microgram per kilogram
ACWS	Aircraft Control and Warning Squadron
ADR	automated data review
AGC	Army Geospatial Center
AOC	area of concern
AST	aboveground storage tank
bgs	below ground surface
CAMP	Community Air Monitoring Plan
CERCLA	Comprehensive Environmental Restoration, Compensation, and Liability Act
CFR	Code of Federal Regulations
CP	Commissioner Policy
DER	Division of Environmental Remediation
DERP	Defense Environmental Restoration Program
DoD	Department of Defense, United States
DU	Decision Unit
ER	Engineer Regulation
ft	foot or feet
FPS	Fixed-Pulse Radar-Surveillance
FUDS	Formerly Used Defense Site
HHRA	human health risk assessment
MCL	maximum contaminant level
MEC	munitions and explosives of concern
mg/kg	milligram per kilogram
mm	millimeter
MS	matrix spike
MSD	matrix spike duplicate
NY	New York
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OPRHC	Office of Parks, Recreation, and Historic Preservation
PAH	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl
ppm	parts per million
PSL	project screening level
QA	quality assurance
QC	quality control

RI	Remedial Investigation
SAP	Sampling and Analysis Plan
SIM	selected ion mass spectrometry
SLERA	screening-level ecological risk assessment
SVOC	semivolatile organic compound
TCLP	toxicity characteristic leaching procedure
TOGS	Technical & Operational Guidance Series (NYSDEC)
TSCA	Toxic Substances Control Act (1976)
UFP	Uniform Federal Policy
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
UST	underground storage tank
UXO	unexploded ordnance
VOC	volatile organic compound
WP	Work Plan

EXECUTIVE SUMMARY

AECOM-Tidewater JV is conducting a Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA) Remedial Investigation (RI), Feasibility Study, Proposed Plan, and Decision Document, at Camp Hero, a formerly used defense site (FUDS). This work is being completed under contract number W912DR-13-D-0016 for the United States Army Corps of Engineers (USACE). The RI for this site is being completed in two phases, with Phase I having been completed in June 2016. This Phase I Investigation Field Report provides: (1) a documentation of the field activities, (2) details on any significant deviations from the work plan that may have occurred, and (3) all the raw data collected.

Camp Hero State Park is located on the eastern tip of the south fork of Long Island, New York (NY), approximately 5 miles east of the Village of Montauk. The former Camp Hero was established in early 1942 as a Coastal Defense Installation and the facility changed ownership within the military multiple times over the course of the following decades. Between 1974 and 1984, site lands were transferred to State, Local, and other Federal agencies, and the facility was permanently closed in 1982. The area is now used as Camp Hero State Park and is owned by the New York State Parks Commission.

Former Department of Defense (DoD) activities at Camp Hero may have resulted in contaminated material or an environmental release from these materials at certain Areas of Concern (AOCs). The RI technical approach consists of two phases of field sampling investigation (Phase I and Phase II). The primary objective of the Phase I investigation was to determine the presence or absence of contamination at the Camp Hero AOCs. The primary objectives of the Phase II investigation is to determine the nature and extent of target constituents in soil, groundwater, surface water, and sediment at the Camp Hero AOCs where the presence of contamination above applicable screening criteria is established following the Phase I investigation and to determine if there are unacceptable risks to human health and ecological health associated with exposure to related constituents.

Forty-five AOCs were identified in the RI Work Plan (WP), including former waste disposal and coal storage areas, abandoned drum locations, and former storage tanks (AECOM-Tidewater JV, 2016). Two additional AOCs were established by the USACE and the AECOM-Tidewater JV team during the Phase I investigation, for a total of forty-seven AOCs investigated during the Phase I activities. The locations are shown on site wide **Figure 1-2** and individual AOC Figures are presented as **Figures 4-2 to 4-37** (Appendix A).

Phase I investigation activities included a geospatial survey utilizing archived aerial photography, digital geophysical mapping of select AOCs, a botanical survey for the protection of rare and threatened species, field sampling, and surveying. The geospatial survey (aerial photography archival research) of the former Camp Hero, performed by the U.S. Army Geospatial Center, evaluated Camp Hero for the potential presence of waste disposal areas which may have been

utilized during DoD activities at Camp Hero. The geospatial survey was conducted as part of the June 2016 Final RI WP and results are presented in that document; however, the results are also included as Appendix E to this Phase I Investigation Field Report for reference.

The Phase I investigation was generally completed to the scope that was provided in the WP. Any deviations to the RI WP are provided in detail within this report. The most significant deviation consisted of the inability to collect groundwater samples at some of the AOCs due to a lack of groundwater from the perched aquifer. Temporary wells were installed and visited multiple times in an attempt to obtain sufficient quantities of groundwater for sample collection. This lack of available groundwater in some locations required a prioritization of analytical parameters due to the large number of sample containers required as a result of the long list of constituents that were being analyzed. Another significant deviation from the WP was at the Battery 112 AOC, which could not be investigated due to the lack of safe access. Lastly, tables which compare the analytical data to project screening levels and determinations of whether each AOC requires further investigation during Phase II are not included in the Phase I Field Investigation Report. To provide a more thorough analysis, tables and recommendations will instead be provided as part of an addendum to the RI WP that will describe the activities to be completed during the Phase II RI (referred to as the RI WP Addendum).

This Phase I Investigation Field Report describes the investigation activities and provides analytical results of the Phase I investigation. The Phase II RI sampling activities will be detailed in the WP Addendum, which will describe specific activities and sampling protocols for the Phase II RI. The RI WP Addendum will be provided to the project team for review, comments, and concurrence with recommendations.

The information and data collected during the Phase II RI will serve as the basis for a baseline Human Health Risk Assessment (HHRA) and Screening-Level Ecological Risk Assessment (SLERA). The objectives of the baseline HHRA and the SLERA are to evaluate whether concentrations of constituents from the AOCs pose unacceptable risks to human health and the environment, and to develop site-specific preliminary remediation goals, if necessary.

1.0 INTRODUCTION

Under contract to the United States Army Corps of Engineers (USACE), AECOM-Tidewater JV is conducting a Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA) Remedial Investigation (RI), Feasibility Study, Proposed Plan, and Decision Document, at Camp Hero, a formerly used defense site (FUDS) under Contract Number W912DR-13-D-0016, Order Number DB01. A Camp Hero general location map is provided as **Figure 1-1** in Appendix A. The areas of concern (AOCs) at Camp Hero established in the June 2016 RI Work Plan (WP) are based on 1) the Camp Hero Feasibility Study/Hazardous Materials Survey prepared by NY State Parks contractor Cashin Associates in 1998 (hereinafter, "Cashin Report") and 2) a historical records search conducted in 2016 in preparation of this RI (AECOM, 2016). AOCs include former waste disposal areas, coal storage areas, abandoned drum locations, and former storage tanks. A site map with AOC locations is provided as **Figure 1-2** in Appendix A. The RI scope of work for this project is limited to the investigation and characterization of these sites (i.e., no remediation).

The RI technical approach consists primarily of two phases of investigation, Phase I and Phase II. The Phase I investigation was intended to confirm either the presence or the absence of suspected DoD waste at an AOC. A Phase II investigation will be conducted to define the nature and extent of the waste constituents at the AOCs where the presence of contamination above applicable screening criteria is established during the Phase I investigation. AECOM-Tidewater JV prepared this Phase I Investigation Field Report under Contract Number W912DR-13-D-0016, Order Number DB01, to provide: (1) a documentation of the field activities, (2) details on any significant deviations from the work plan that may have occurred, and (3) all the raw data collected.

1.1 Facility Background

The Camp Hero State Park Site consists of 469 acres located on the eastern tip of the South Fork of Long Island, NY, approximately 5 miles east of the Village of Montauk in Suffolk County, NY (**Figure 1-1** in Appendix A). Camp Hero State Park is split into two large subareas: the former Military Area (the Site) and the "Sanctuary Area." The Site is bounded by Montauk Highway (Route 27) to the north, the Atlantic Ocean to the south, Montauk Point State Park to the east, and Camp Hero State Park's undeveloped sanctuary area to the west.

The former military facility Camp Hero was established in early 1942 as a Coastal Defense Installation to defend the approaches to New York and was named in honor of Major General Andrew Hero. Three self-sufficient batteries (Battery 112, 113, and 216) and supporting facilities were constructed which included barracks, mess halls, hospital facilities, a motor repair shop, a recreation facility, sentry boxes, and water supply and sewage facilities. A total of 600 enlisted men and 37 officers were stationed at Camp Hero.

Camp Hero was a sub-installation of the 11th Coast Artillery Regiment (Harbor Defense) located at Fort H.G. Wright, Fischers Island, Block Island Sound, New York. Fort H.G. Wright was under the control of the Eastern Defense Command. Elements from the 11th Coast Artillery Regiment, along with elements from the 242nd Connecticut National Guard Coast Artillery Regiment (Harbor Defense), which augmented the 11th Coast Artillery Regiment at Fort H .G . Wright.

Battery 216 (identified as Bunker 216 on Figure 1-2) contained two 6-inch shielded guns, a mechanical power room, and powder room for storage of ammunition and powder charges. Battery 113 (identified as Bunker 113 on maps) consisted of two 16-inch casemated guns and battle allowances of ammunition and powder charges were stored within the battery. Battle allowances of ammunition and powder charges for the Camp Hero battery guns were stored within the individual batteries of the camp. A requirement for war reserve allowances of ammunition for the batteries also existed. However this ammunition was stored outside of Camp Hero installation boundaries at an unknown central depot location under the control of the Chief of Ordnance. Batteries 112 and 113 had a battle allowance of 200 16-inch 2,240-lb projectiles and a war reserve allowance of 300 16-inch 2,240-lb projectiles. Battery 216 had a battle allowance of 200 6-inch 90-lb HE (high explosive) rounds and 300 6-inch 105-lb AP (armor piercing) rounds and a war reserve allowance of 300 6-inch 90-lb HE rounds and 400 6-inch 105-lb AP rounds (USACE 2000).

Additionally, 37-millimeter (mm) weapons and .50-caliber antiaircraft weapon platoons were assigned to protect the Camp from air attack. The Camp's weaponry was periodically fired to practice over water but was never fired as a result of an act of hostility. It is presumed that the antiaircraft weapon ammunition for Camp Hero and nearby facilities was also stored within the battery ammunition storage facilities of Camp Hero, as no other historical or physical evidence is present to display a separate storage facility for these items. This was conceivably possible due to the storage capacity of 400 rounds of ammunition in Batteries 112 and 113, and a battle allowance requirement of only 200 rounds of ammunition (USACE 2000).

The Camp was placed on inactive status on July 31, 1947 and ultimately declared surplus by the Department of the Army on December 31, 1949. In 1949, approximately 97 acres of Former Camp Hero was transferred to the Department of the Air Force for an aircraft control and warning station. On January 24, 1951, the former Camp Hero was withdrawn from surplus and designated for use as a firing range and field exercise area for antiaircraft artillery from Fort Totten, NY. Arrangements were made for an Army cadre at the Camp and 90 mm and quad .50-caliber antiaircraft artillery began firing exercises from firing positions established in the southern bluff overlooking the Atlantic Ocean near Bunker 216. Tow target planes and radio controlled aircraft were utilized to gauge firing accuracy (later towed barges were also used). Due to limited facilities for the training units,

the units bivouacked at the Camp. Ammunition for training exercises, when required, was stored in the internal bunkers of the now unused Battery 216 (USACE 2000).

In 1952, the Air Force property was renamed the Montauk Air Force Station and was occupied by the Aircraft Control and Warning Squadron (ACWS). The Former Montauk Air Force Station portion of Former Camp Hero has been shown on Figure 1-1. Army unit training continued using 90 mm and 120 mm guns, 3.5-inch rockets, and .50 caliber guns until 1957. The facility was active until October 1958 when the ACWS was re-designated as the Radar Squadron with a new mission to provide surveillance data of air traffic in the area. In order to accomplish this mission, an advanced Specific Frequency Diversity Search Radar was built in late 1960 (Army-Navy/Fixed-Pulse Radar-Surveillance [FPS]-35 Radar Tower and Antenna).

Between 1974 and 1984, site lands were transferred to State, Local, and other Federal agencies and the ACWS facility was permanently closed in 1982. The area is currently operated by the NY State Office of Parks, Recreation, and Historic Preservation and is operating as Camp Hero State Park. The park landscape includes wooded areas, freshwater wetlands, and sea-side bluffs, complete with hiking trails and roadways leading to former military buildings, picnic areas, and recreational areas.

In 2002, the AN/FPS-35 Radar Tower and Antenna was listed under the National Register of Historic Places (NRHP). Camp Hero State Park as a whole is potentially eligible for listing on the NRHP, according to the NY State Historic Preservation Office.

1.2 Scope and Objectives

The RI technical approach consists of two phases of investigation, Phase I and Phase II. The Phase I investigation is intended to confirm either the presence or the absence of suspected CERCLA DoD waste at an AOC. A Phase II investigation will be conducted to define the nature and extent of the waste constituents at the AOCs where the presence of contamination above applicable screening criteria is established during the Phase I investigation.

This Phase I Field Report documents the Phase I RI activities at Camp Hero during May and June 2016. The objectives of this Field Report are to provide the following information:

- A summary of the Phase I RI activities at each AOC.
- Details on any significant deviations from the work plan that may have occurred.
- Raw data that was collected both in the field and from the off-site analytical laboratory.

1.3 Phase I Investigation Field Report Organization

This Field Report is organized into the following sections:

- Section 1.0: Introduction – provides an introduction to the project including the scope and objectives, installation background, and organization of this Field Report.
- Section 2.0: Technical Approach – provides the regulatory framework, description of the phased RI approach, descriptions of general field investigation operations, and information on data analysis and validation.
- Section 3.0: Background Sampling – provides the approach and results for the Camp Hero background soil sampling.
- Section 4.0: AOC Investigations – presents brief historical information, reason for concern, and the Phase I RI activities for each AOC at Camp Hero.
- Section 5.0: References – lists the references utilized in this Field Report.

The following appendices are included in this Field Report:

- Appendix A contains the figures referred to in this Field Report.
- Appendix B contains the tables referred to in this Field Report.
- Appendix C contains key correspondence with stakeholders prior to the field effort.
- Appendix D contains the Camp Hero Army Geospatial Center (AGC) Report. As part of this investigation, the Hydrologic and Environmental Analysis Branch of the Warfighter Support Directorate of the USACE ACG was tasked to search, collect, and review historical aerial photography from 1940 to 1982 searching for features associated with possible solid waste disposal areas within the former Camp Hero boundary.
- Appendix E contains the Camp Hero Geophysical Survey Report. Digital Geophysical Mapping (DGM) surveys were conducted at select AOCs in attempt to locate and identify subsurface historic infrastructure to streamline subsequent sampling activities. The Geophysical Survey Report presents the geophysical survey results and provides metal detection summary figures for each AOC investigated.
- Appendix F contains the Community Air Monitoring results. Continuous air monitoring was completed during Phase I RI activities downwind of the Geoprobe® rig during intrusive activities, in accordance with the modified generic NY State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP), Attachment 1A of the NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation.

- Appendix G contains the laboratory analytical data results, laboratory investigation-derived waste report, and the data validation reports.
- Appendix H includes contains the Daily Reports completed during Phase I RI Field work.
- Appendix I contains a Photograph Log of the Phase I RI activities and AOCs at Camp Hero.

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2.0 TECHNICAL APPROACH

2.1 Regulatory Framework

The RI work was conducted in accordance with CERCLA and the FUDS ER-200-3-1 (USACE 2004). New York State Department of Environmental Conservation (NYSDEC) is the lead regulator for this RI and will provide review and concurrence pursuant to CERCLA. The criteria established for constituents of concern in New York Codes, Rules, and Regulations (NYCRR) Subpart 375-6, "Remedial Program Soil Cleanup Objectives" will be utilized for screening criteria (NYCRR 2015a). For those areas of this project strictly addressing releases of fuels from formerly removed or used storage tanks, the following NYCRR will be applied: 6 NYCRR 613.9 (b), Closure of Tanks Permanently Out of Service (NYCRR 2015b) and NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation.

In accordance with NYSDEC policy CP-51, soil samples at suspected petroleum storage tank AOCs were analyzed for petroleum compounds by the NYSDEC Spills, Technology, and Remediation Services (STARS) list for either fuel oil or gasoline, which include volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and lead analyses (based on the suspected fuel type). Groundwater samples at suspected petroleum tank AOCs were analyzed for VOCs, SVOCs, and lead (based on the suspected fuel type). Soil and groundwater analyses at non-petroleum AOCs include a more comprehensive analytical list, depending on the concern at each AOC, which are detailed by AOC in Section 4.0.

- **Human Health Screening Criteria:** The project screening levels (PSLs) for soil are obtained from the following criteria: United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) for Residential Soil (USEPA 2016a), 6 NYCRR Part 375-1 Soil Cleanup Objectives (NYCRR 2015a), and NYSDEC CP-51/Soil Cleanup Guidance (NYSDEC 2010a). The PSLs for soil are the lowest of each of the criteria listed.

  The PSLs for groundwater are obtained from the following criteria: USEPA Regional Screening Level for Tap Water (USEPA 2016a), USEPA MCL criteria (USEPA 2016b), NYSDEC Technical & Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (NYSDEC 2004), and New York State Department of Health Maximum Contaminant Level (MCL) criteria (NYCRR 2011).

  In order to meet PSL data quality objectives, SVOCs in soil and groundwater were analyzed by Method 8270D with Selected Ion Mass Spectrometry (SIM).

- **Ecological Screening Levels:** Ecological screening level guidance and references are detailed in the RI WP. Data from the surface soil samples, as well as information from the

Phase 1 RI to assess surface water flow directions, wetlands, and ecological receptors, will be used to identify ecological data gaps to be addressed in the Phase 2 RI sampling. A summary of chemicals of potential environmental concern and the areas of concern where surface soil contamination was detected above the ecological screening criteria will be identified in the WP Addendum.

2.2 Phased Approach

The RI technical approach consists of two phases of investigation, Phase I and Phase II. The Phase I investigation was intended to confirm either the presence or the absence of suspected DoD waste constituents at an AOC. Based on Phase I findings confirming waste constituents at an AOC, a Phase II investigation will be conducted to define the nature and extent of the contamination.

- **Phase I RI:** The primary objective of the Phase I RI is to determine the presence or absence of contamination at the Camp Hero AOCs. Phase I RI activities included aerial photography archival research, digital geophysical mapping of subsurface anomalies, a botanical survey, Geoprobe® soil borings, piezometer and temporary well installations, and field sample collection. Sample collection for the Phase I investigation included surface soil [defined as soil between 0 to 1 foot (ft) bgs], subsurface soil (greater than 1 ft bgs), wipe samples of concrete and building materials, concrete chip samples, and groundwater sampling.

  The purpose of this Field Report is to summarize the Phase I field activities and provide the analytical data. The original Project Work Statement scoped the Field Report to provide all the raw data collected and details on any deviations from the work plan. The RI WP mistakenly added scope to the Field Report by indicating tables would be produced and recommendations would be made regarding which AOCs will be included in the Phase II investigation. A WP Addendum will be prepared to detail the Phase II investigation approach. The RI WP Addendum will be provided to the project team for review, comments, and concurrence. A technical review meeting will be conducted with the project stakeholders to obtain consensus with the proposed Phase II investigation activities.

- **Phase II RI:** For AOCs requiring further investigation, the primary objective of the Phase II RI is to determine the nature and extent of target constituents in soil and groundwater at the Camp Hero AOCs and to determine if there are unacceptable risks to human health and ecological receptors associated with exposure to AOC-related constituents.

  The Phase I RI sampling results will be used as a basis for determining the locations of Phase II samples and analyses in order to: 1) determine the nature and extent of contamination at the Camp Hero AOCs and 2) determine the concentration of a contaminant that may be contacted by a receptor at a site to conduct risk assessment. The Phase II data may include:

concrete chip samples, liquid samples from containers, surface soil (0 to 1 ft bgs), subsurface soil (greater than 1 ft bgs), surface water, sediment, and groundwater samples from temporary or permanent monitoring wells.

2.3 Coordination with Stakeholders

Project kick-off meetings were held to initiate coordination with stakeholders. Activities were coordinated with the Camp Hero State Park Superintendent, Mr. Tom Dess, to ensure activities did not impact park visitors or conflict with seasonal work restrictions. Additionally, activities were coordinated with the State Historic Preservation Officer and other interested parties and stakeholders, in accordance with Section 106 of the National Historic Preservation Act of 1996, as amended and 36 Code of Federal Regulations (CFR) 800. Appendix C of this Field Report contains key correspondence related to coordination with stakeholders.

The NYSDEC Natural Heritage and NYS Office of Parks, Recreation, and Historic Preservation (OPRHC) were consulted regarding Camp Hero RI activities, with particular focus on the botanical survey of rare and endangered species (see Section 2.4.3. below).

Coordination letters were submitted to the NYDEC Region 1 Office, the United States Fisheries and Wildlife Service (USFWS) New York Field Office, and the Shinnecock Nation regarding planned Camp Hero activities. The coordination letters indicated the USACE's intent to conduct a RI at the former Camp Hero, with the purpose of assessing if the former DoD activities may have results in adverse environmental conditions. The letters additionally explained the scope of the project and stated that care will be taken to minimize impacts to vegetation and local threatened and endangered species (see Appendix C). The NYDEC and the USFWS both indicated that they did not have any threatened or endangered species concerns for this project.

2.4 General Phase I Investigation Operations

The Phase I Investigation at Camp Hero included aerial photography archival research, digital geophysical mapping of subsurface anomalies, a botanical survey, Geoprobe® soil borings, piezometer and temporary well installations, and field sample collection. Details of each activity are provided in the sections below.

2.4.1 Aerial Photography Archival Research

As part of this investigation, the Hydrologic and Environmental Analysis Branch of the Warfighter Support Directorate of the USACE ACG was tasked to search, collect, and review historical aerial photography from 1940 to 1982 searching for site features which could be associated with solid waste disposal within the former Camp Hero boundary. Their report is included in this Field Report as Appendix D and contains a summary of potential disposal locations, along with a list of spatial data collected from 1940 to 1982 (USACE 2016). The report concluded that there was no

photographic evidence of debris accumulation suggestive of a solid waste disposal areas in the spatial data collected for this project. However, four areas were identified where solid waste disposal could have taken place, described as access points to cleared areas near or along the bluff. The four areas were designated "AGC Sites 1, 2, 3, and 4" for this RI. AGC Site 3 corresponds to the "Camp Hero State Park Bluffs" AOC, which was already established as an AOC as part of the RI investigation.

2.4.2 Digital Geophysical Mapping

Prior to the Phase I sampling activities, Digital Geophysical Mapping (DGM) surveys were conducted at select AOCs to locate and verify suspected underground storage tanks (USTs) and subsurface historic infrastructure to optimize sampling activities. DGM was conducted at the following AOCs:

- Suspected Tank A – Building 0020 – Fire Department, suspected former UST location(s)
- Suspected Tank B – Building 0022 – Kitchen/Office, suspected former UST location(s)
- Suspected Tank C – Building 0002 – Barracks, suspected former UST location(s)
- Suspected Tank D – Building 104R – Commissary, suspected former UST location(s)
- Suspected Tank E – Building 3001 – AT&T/Lilco, suspected former UST location(s)
- Suspected Tank F – Well Pump House, suspected former UST location(s), hazardous materials
- Suspected Tank G – Well Pump House, suspected former UST location(s)
- Fuel Pump House Distribution Line – distribution line from the Fuel Pump House (connected to AST-35) identified on historic drawings connecting to former Building 203
- Battery 216 – potential underground vaults, unknown use, potential storage
- Plotting Room 113 – waste area, potential storage or waste dump site

The intent of the geophysical surveys at each of the above sites was to: (a) verify the outline of a tank (if still exists), (b) identify the extent of residual subsurface features, and (c) examine the general vicinity to support safe subsurface sampling within close proximity to the structures.

The DGM field survey methods consisted of a combination of electromagnetic (EM) and magnetic (MAG) Analog Geophysical Mapping (AGM) metal detection surveys, at 5-ft increments, within the bounds of accessible areas of each pre-marked survey area. The DGM was completed using the Geonics EM61-MK2 instruments in relatively open areas, while AGM, using a Schonstedt® GA-72cd, was reserved for vegetated areas not accessible using DGM methods. After each sweep of the AOC

area, significant DGM instrument readings were relocated, marked, and annotated as to whether a surface feature coincides with the instrument reading.

Additional information is available in the Camp Hero Geophysics Report (Appendix E), which presents results and provides metal detection summary figures for each AOC investigated. Results are discussed by AOC in Section 4 of this Field Report.

2.4.3 Botanical Survey

A botanical survey for rare and threatened species at Camp Hero State Park was completed in May 2016, in conjunction with the Geophysical Surveys, prior to any vegetation removal activities. The NYSDEC Natural Heritage Program identified four rare plant species which have been historically reported within the Camp Hero RI project area, including: Little-leaf Tick-trefoil, Fringed boneset, Blunt mountain-mint, and Southern arrowwood.

Prior to the botanical survey field activities, the AECOM botanist researched the habitat requirements, phenology, critical diagnostic characteristics, and morphologically-similar congeners for the target plant species identified as potentially occurring in the vicinity of the Project survey area by the NYSDEC Natural Heritage Program. Botanical references and regional field manuals were consulted for the northeastern United States as well as Flora of North America.

During field preparation for the remedial investigation, each AOC and background soil sampling location was surveyed for the four rare plant species. If any rare plant species were identified, they were marked with red and white checkerboard flagging. The USACE and AECOM-Tidewater JV team was consulted to determine the best method to avoid destruction of any protected plants by subsequent investigative procedures, including brush clearing and use of heavy equipment.

The Camp Hero sites were surveyed by the AECOM botanist and USACE project ecologist in May 2016. Findings indicated that the upland forests consisted of a mixed hardwood canopy dominated by *Quercus* species. Also present in the canopy to a lesser degree were *Fagus grandifolia*, *Tilia americana*, *Nyssa sylvatica*, *Prunus serotina*, and *Acer rubrum*. The upland forest understory was dominated by *Hamamelis virginiana*, *Ilex opaca*, *Vaccinium corymbosum*, *Smilax rodundifolia*, and in some areas, *Viburnum dentatum* var. *venosum*. Forested wetlands were dominated by an *Acer rubrum* canopy with a *Lindera benzoin* and *Vaccinium corymbosum* understory.

Upland successional shrub lands were often dominated by *Morella pensylvanica*, *Amelanchier canadensis*, *Prunus serotina*, *Toxicodendron radicans*, *Vaccinium corymbosum*, and in some areas- *Viburnum dentatum* var. *venosum*. Many upland successional shrub land sites were also heavily infested with *Lonicera morrowii* and *Elaeagnus umbellata*.

Additionally, a few AOCs were located on anthropogenically-altered or regularly disturbed sites, including turf areas and hardscape which contained herbaceous weeds.

Regarding the four target rare plant species, the three herbaceous species, *Desmodium ciliare, Eupatorium torreyanum*, and *Pycnanthemum muticum*, were not encountered. It is likely that it was too early in the season for these three species to have emerged.

The fourth target rare plant species, *Viburnum dentatum* var. *venosum (*Southern arrowwood*),* was encountered with great frequency throughout Camp Hero; in some areas, it was co-dominate in the forested understory or upland successional shrub lands and it appears the population is stable and thriving. While all larger specimens were flagged, a small number of sites also had numerous seedlings that are almost impossible to avoid without employing extraordinary measures. In consultation with the NYSDEC Natural Heritage and NYS OPRHC, it was concluded that the destruction of a few seedlings during the course of further remedial investigation at Camp Hero would be acceptable in light of the large and stable population of *Viburnum dentatum* var. *venosum*. Copies of key correspondence with the OPRHC regarding the Southern arrowwood are included in Appendix C.

2.4.4 Field Sampling

Sample collection for the Phase I investigation included surface soil (defined as soil between 0 to 1 ft bgs), subsurface soil (greater than 1 ft bgs), concrete chip, and groundwater sampling. After sample collection and/or field screening, samples were transferred to the appropriate sample container for laboratory analysis and placed in a cooler on ice. The required sample containers, preservatives, and holding times were specified in the Uniform Federal Policy (UFP) Sampling and Analysis Plan (SAP), Attachment B to the RI WP (AECOM 2016). Sample locations were marked with a pin flag with sample identification number, photo-documented, and recorded with a hand-held global positioning system unit. The collected coordinates were utilized to produce sample location maps for this RI Field Report and are available for use in sample location mapping for future documents. The non-disposable sampling equipment (i.e., hand auger) was decontaminated between sample locations.

Surface and Near-Surface Soil: A clean (decontaminated) hand auger or disposable scoop was used to collect surface and near-surface soil samples. In some locations, the Direct Push Geoprobe® rig was used to collect a small, 5–foot core, from which the 0 to 1 foot surface soil sample was collected. As defined in the WP, surface soil samples were considered to be 0 – 1 ft bgs, where near-surface samples were considered to be 1 – 2 ft bgs. VOC samples were collected directly from the recently-exposed soil using a sampling corer (Terra Core kits). For the other analyses, the soil was removed and transferred to a disposable, re-sealable plastic bag and was

then homogenized, which consisted of mixing the soil until the sample is a uniform color, texture, and particle size. Any non-homogenous particles, organic matter, and debris were removed from the soil samples. Soil samples at pre-selected locations were field-screened with the PID while in the plastic bag prior to the homogenization of the soil. After sample collection and/or field screening, the sample was transferred to the appropriate sample container for laboratory analysis and placed in a cooler on ice.

Subsurface Soil: Subsurface soil samples were collected using a Direct Push Geoprobe® drill rig. A Geoprobe® dual-tube sampling system was used to collect continuous soil cores by advancing a 5-ft (60-inch) coring barrel fitted with the dedicated, disposable polyvinyl chloride (PVC) liners to the target depth, as established in the RI WP. Borings were either advanced to the depth of the perched water table or to 25 ft bgs, with the exception of the borings at AOC H-17, which were advanced to 35 ft bgs in an attempt to reach groundwater. Specific depths of the borings at each AOC are provided in Section 4.0.

Soil cores were screened for VOCs immediately upon opening the sleeve with a PID utilizing an 11.7 electron-Volt bulb. Screening results, lithologic descriptions, and other observations and measurements were recorded on a soil boring log by the field geologist. At a minimum, depth interval, recovery thickness, PID concentrations, moisture, relative density, color (using a Munsell soil color chart), and texture using the Unified Soil Classification System were recorded. Additional observations recorded may have included detectable odors, groundwater or perched water depth, organic material, cultural debris, or color changes indicating staining. Photographs were also taken of significant boring cores.

Two subsurface soil samples were generally be collected from each Geoprobe® location unless otherwise specified in the RI SAP. Samples were collected from depth intervals where field screening or observations (i.e., highest VOC concentration measured with the photo-ionization detector, odor, staining) indicated the potential presence of contaminants, the depth of the structure being evaluated, or at the depth of groundwater, as established in the RI WP. VOC samples were collected directly from the recently-exposed soil using a sampling corer (Terra Core kits). For the other analyses, the soil was removed and transferred to a disposable, re-sealable plastic bag and was then homogenized, which consisted of mixing the soil until the sample is a uniform color, texture, and particle size. Any non-homogenous particles, organic matter, and debris were removed from the soil samples.

Concrete Coring: Concrete coring was necessary prior to boring at locations with asphalt or cement. A 4-inch diameter core barrel was advanced through the concrete using a stand mounted core drill to

access soils for direct push sampling. Once drilling and sampling activities were finished, the core and lag holes were patched with concrete.

Groundwater Sample Collection from Temporary Wells (Grab Sample): Groundwater samples were collected from temporary wells installed during the DPT drilling activities at locations where groundwater was encountered in the borings. If groundwater was encountered at the location, a Peristaltic Geopump with disposable tubing was used to collect a grab groundwater sample. A YSI 6920® water quality meter with a multi-parameter cell was used to obtain one set of groundwater parameter readings after the grab sample was collected, if sufficient groundwater was left in the well. Water quality parameters included temperature, pH, specific conductivity, dissolved oxygen, reduction-oxidation potential, and turbidity.

Recharge in some wells was insufficient to collect the required volume for all planned analyses. Multiple attempts were made to sample these wells and the collected volume was submitted for laboratory analysis of a shortened analyte suite, if all bottleware could not be filled. If within 24 hours, groundwater recharge had not produced any water in the temporary well, no groundwater sample was collected during Phase I.

Concrete Chip Samples: The surface of the sample location was broken up using a rotary hammer drill with a decontaminated 1-inch bit. Multiple holes up to 2 centimeters (cm) in depth were created within the sampling area, in order to fill the full 8-ounce (oz) required volume. An effort was made to avoid scattering pieces out of the general sampling area. The chipped/pulverized concrete pieces and powder were collected using dedicated gloves and transferred directly into the laboratory-provided sample container.

Wipe Sampling for polychlorinated biphenyls (PCBs): Prior to sampling, the gauze pad was saturated with hexane. A 10 cm × 10 cm sample area was prepared at the sample location. The sample area was thoroughly wiped from left to right and again from top to bottom. Once the area had been wiped, the gauze pad was placed back into the sample jar and allowed to air-dry prior to sealing the jar.

Sample Identification. The sample identification numbers consisted of an alphanumeric designation related to the AOC, event, media type, and consecutive number, according to the following conventions:

AOC Identification (ID): **203** = Building **203** *(see Table 2-1 for AOC IDs)*
Location ID, which consists of:
Media Type: **SB** = **S**urface **B**oring *(see Table 2-1 for Media Type Codes)*
Consecutive Number: 01, 02, 03, etc.

For groundwater samples, "-GW" at the end of the location ID
For soil samples, depth of sample (in ft): 01, 02, 03 etc.

For example, the sample identification number for the first soil boring sample collected at Building 203 from 2 to 3 ft bgs was 203-SB01-03. The sample identification number for the groundwater sample collected from the same boring was 203-SB01-GW. Duplicate sample identification numbers were followed with a "DUP". MS sample identification numbers were followed with a "MS" and MSD sample identification numbers were followed with a "MSD."

Sample Handling, Storage, and Shipment: Samples were collected into laboratory-supplied bottleware and placed in a cooler on ice. Sample times, dates, and analyses were recorded on boring logs, field sample forms, and field team logbooks. Samples were then quality-control checked by the site Sample Manager and recorded on chain-of-custody (COC) records prior to being packed in coolers on fresh ice and transported daily via overnight commercial carrier to the laboratory. Original COCs were included in the coolers with their respective samples; carbon-copies of the COCs were kept on-site by the Sampler Manager and emailed to the laboratory and project chemist each night, along with tracking numbers for the shipped coolers.

Water Level Measurement: Water level measurements were collected from temporary wells prior to the collection of samples using an electric measuring tape. Additionally, three piezometers were installed in the vicinity of former Building 203 to obtain information on the direction of groundwater flow. The piezometers were constructed as standard PVC wells with filter-pack and a bentonite seal, as necessary, but were not grouted in place. No analytical samples were collected from the piezometers.

Borehole and Temporary Well Abandonment: DPT borings and temporary wells were abandoned at completion of sampling activities. The PVC pipe was removed and backfilled with sand at the locations with temporary wells, whereas borings in grass or sand were abandoned by backfilling with bentonite chips. Borings in asphalt or concrete were abandoned by backfilling with bentonite chips to approximately 6 inches bgs, and the remainder of the borehole was patched with asphalt cold patch or hydraulic concrete. The surface at each location was restored to match the surrounding area.

Temporary wells at AOCs AST-35, FPH, and former Building 203 (including the piezometers) were left in place with the permission of the USACE and NYS Parks Service. These temporary wells are located in gated areas off-limits to the public and may need to be utilized due to the discovery of free product at former Building 203.

2.4.5 Anomaly Avoidance

An Unexploded Ordnance (UXO) Probability Assessment for Intrusive Investigation at Former Camp Hero completed by USACE Baltimore District determined that the Camp Hero RI activities had a low probability of encountering munitions and explosives of concern (MEC), except for areas H and K, which would not be entered at any point during RI field activities. However, as a precautionary measure, anomaly avoidance was conducted in accordance with EM 385-1-97 by a UXO Technician II during intrusive Phase I RI activities with a hand-held magnetometer. "Anomaly avoidance" is defined as the avoidance of surface MEC and any subsurface anomalies where the specific activity can be moved to another location.

Additionally, all field personnel, including AECOM-Tidewater JV employees and subcontractors, completed Ordnance Recognition Training prior to the start of field activities.

2.4.6 Community Air Monitoring

Continuous air monitoring was completed downwind of the Geoprobe® rig during intrusive activities, in accordance with the modified generic NYSDOH Generic CAMP, Attachment 1A of the NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation. The CAMP establishes air monitoring activities that were to be implemented to protect the community from any potential airborne releases that could result from field activities associated with the RI or interim remedial action efforts, as necessary (NYSDEC 2010b). No exceedances were observed during Phase I RI activities. Data from Phase I RI air monitoring are included as Appendix F to this Field Report.

2.4.7 Surveying

The horizontal and vertical position of temporary well locations were surveyed to a horizontal accuracy of 0.1 ft and a vertical accuracy of 0.01 ft. However, no permanent benchmark was available near RI activities in Camp Hero State park; therefore, the vertical positions were based on an arbitrary benchmark of 80 feet at the 1st well surveyed (H17-SB01), near the Commissary Building). Surveyed locations were collected relative to an initial arbitrary benchmark with the following exceptions: Building F100C (UST 34) locations F100C-SB01 and F100C-SB02 and Waste Disposal System locations WDS-SB01, WDS-SB02, and WDS-SB03. The vertical position of temporary wells at these AOCs were surveyed relative to the other temporary wells within the AOC. The temporary wells at these two AOCs were not surveyed relative to the Phase I arbitrary benchmark (H17-SB01) due to their "remote" location relative to the other AOCs. The vertical positions of the temporary well locations and depth to groundwater data were utilized to estimate the direction of groundwater flow at each AOC. A surveyed benchmark with known elevation will be acquired by licensed surveyors during permanent monitoring well installation as part of the Phase II investigation.

2.4.8 Investigation-Derived Waste (IDW) Management:

AECOM-Tidewater JV managed IDW generated during the Phase I field activities pursuant to applicable Federal, State, and local regulations and guidance, including the USEPA Management of Investigation-Derived Wastes during Site Inspections (USEPA 1992), USACE guidance (2013), and NYSDEC Technical Guidance for Site Investigation and Remediation (2010b).

In accordance with NYSDEC Technical Guidance for Site Investigation and Remediation (2010b), soil cuttings and purged groundwater were disposed at the site within the corresponding borehole to within 24 inches of the ground surface with the remainder of the borehole filled with bentonite. An exception to this was when volatile organic field screening instruments detected measurements from soil or groundwater that were above background or visual discoloration of soil or olfactory evidence of contamination were noted. In general, minimal groundwater IDW was generated as most of the purged groundwater was utilized for analytical samples.

IDW was stored in 55-gal drums, which were properly labeled indicating the generator, contact information, contents, and date of generation. The drums were stored at the Camp Hero State Park Motor Pool building, with the permission of State Park Superintendent Mr. Tom Dess. Analytical samples of both the soil and liquid IDW were collected on 20 September 2016 and submitted to RTI Laboratories for hazardous waste determination, including Toxicity Characteristic Leaching Procedure (TCLP). Both soil and liquid IDW were determined to be non-hazardous. Table 2-1 (Appendix B) presents the IDW analytical results compared to TCLP regulatory levels (40 CFR § 261, 1993). The analytical laboratory package of results from the liquid and solid IDW samples are included in Appendix G.

2.5 Quality Assurance/Quality Control Samples

Quality assurance/quality control (QA/QC) samples were collected to ensure field and laboratory protocols resulted in consistent and valid data. The following types of QA/QC samples were collected:

Field Duplicates: One additional set of sample containers were collected along with the normal sample. The duplicate was analyzed as a normal sample at the laboratory. Duplicates were collected at a frequency of one duplicate per ten samples.

Matrix Spike/Matrix Spike Duplicates (MS/MSD): Two additional sets of sample containers were collected along with the normal sample. A Matrix Spike and Spike Duplicate (MS/MSD) are representative but randomly chosen samples with known concentrations of analytes of interest added to the samples prior to sample preparation and analysis. They are processed along with the same un-spiked sample.

Equipment Blanks: One equipment blank was collected from the hammer drill used to collect the concrete chip samples. The equipment blank was collected by pouring Type II deionized water over the decontaminated drill bit and collecting the water in the appropriate sample containers.

Trip Blanks: Trip blanks for VOC analysis were provided by the laboratory. One trip blank was included in each cooler with VOC samples for VOC analysis.

2.6 Data Validation

Data validation was conducted on the Automated Data Review (ADR) output for the Phase I analytical data. All analytical data packages were validated to ensure compliance with specified analytical, QA/QC requirements, data reduction procedures, data reporting requirements, and required accuracy, precision, and completeness criteria. This includes, but is not limited to, the following:

- Sample preservation and holding times;
- Blanks (method and rinse);
- Matrix spikes and spike duplicates;
- Laboratory and field sample duplicates;
- Surrogates; and
- Laboratory control samples.

Analytical results were assessed for accuracy and precision of laboratory analysis to determine the limitations and quantity of data. The quality of the data collected in support of the sampling activity was considered acceptable.

The data validation process assigned data qualifiers to results that did not meet specified laboratory protocols but were still considered acceptable via the data validation process. Some data that required qualifiers included samples which were subject to cooler delivery issues resulting in samples arriving out of temperature, samples exceeding specified hold times, and samples requiring multiple dilutions for the SIM PAH method. Samples falling within these qualification scenarios are detailed below.

Sampling and Cooler Delivery Issues. The cooler containing sample H17-SB02-GW was received outside temperature (at 22°C) due to delayed delivery via Federal Express package delivery company. For the VOC analyte group, non-detect results were qualified “R” (rejected value) and the detects were qualified “J” (estimated value). All other analytes in the sample (SVOCs and PCBs) were qualified “J” (estimated value) for detected values and “UJ” (value under detection limit; estimated value) for non-detected values. Samples H14-SB01-GW, H14-SB03-GW, and MP-SB03-

GW were also received outside temperature due to a cooler delivery delay; however, the samples were recollected at a later date and the recollected samples were delivered to the laboratory without temperature or hold time concerns and no results required qualification.

Hold Time Issues. Several Camp Hero samples were qualified due not meeting the recommended method hold times, as detailed in Table 2-2 (Appendix B). Analyte detects were qualified "J" (estimated value) and non-detected values were qualified "UJ" (value under detection limit; estimated value) in the samples.

Multiple Dilutions for PAH SIM method. Multiple dilutions were required for some samples utilizing the SIM PAH analysis. These samples had compounds that were being reported over calibration. The laboratory had to run several dilutions to capture concentrations within the calibration range. Some of the samples had to be analyzed three times. Data from all dilutions were evaluated and compound results were reported from the lowest dilution that exhibits lack of interference.

For example, samples FPH-SB02-GW, FPH-SB03-GW, FPH-SB04-GW, and FPH-SB04-GW DUP were run for several SIM PAH dilutions, as well as regular PAH Method 8270. Due to the very high dilutions in SIM PAH, results were reported from the regular PAH Method 8270.

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3.0 BACKGROUND SAMPLING

Background soil samples were collected in Phase I to establish park-wide background levels for naturally occurring constituents and anthropogenic impacts. A total of 62 background soil samples (30 surface and 32 subsurface) were collected from four different locations (BG-01 through BG-04) representing two different soil types, Whitman Sandy loam (outwash deposits of stratified sand and gravel) and Montauk loam (glaciofluvial deposits of stratified sand and gravel in forms of kames). These two soil types represent the soil types where most of the Camp Hero RI AOCs are located, excluding urban soil complexes, which are not representative of background conditions. A soil survey map of Camp Hero is included as **Figure 3-1** (Appendix A).

Background samples were analyzed for metals and polycyclic aromatic hydrocarbons (PAHs) by method 8270D in SIM mode. PAHs were included in the background analysis because they may be ubiquitous to the environment and may be derived from non-anthropogenic and anthropogenic influences not directly related to former military activities at Camp Hero.

Phase I Background Field Operations. A total of 16 soil borings were advanced for background sampling. Eight borings were located in the Whitman Sandy Loam (4 borings at 2 locations) and eight borings were located in the located in the Montauk Loam (4 borings at 2 locations). Sample locations were spaced a minimum of 25 ft apart. Borings were advanced to 10 ft bgs or the depth of the perched aquifer, whichever was encountered first. Two subsurface soil samples were collected per boring: 4 to 5 ft bgs and 9 to 10 ft bgs or 1 to 2 ft above the depth to ground water, whichever was encountered first. One surface soil sample was collected from 0 to 1 ft from each boring. Fourteen additional surface soil samples were collected between the four background locations. All four background soil sampling locations are shown on the site map (**Figure 1-2**) and individual background location maps are provided as **Figures 3-2**, **3-3**, **3-4**, and **3-5**, respectively (Appendix A).

Per this methodology, the sample sizes for the background soil samples are as follows:

- n = 15 for surface soil in Montauk Loam (at locations BG-02, BG-04)
- n = 15 for surface soil in Whitman Sandy Loam (at locations BG-01, BG-03)
- n = 16 for subsurface soil in Montauk Loam (at locations BG-02, BG-04)
- n = 16 for subsurface soil in Whitman Sandy Loam (at locations BG-01, BG-03)

The location and need for groundwater, sediment and surface water background data, and the methods that will be used to determine whether site concentrations are within background levels for these media, will be defined in the RI WP Addendum prior to Phase II sampling.

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4.0 AOC INVESTIGATIONS AND RESULTS

The AOCs investigated as part of the Phase I RI were a combination of sites previously identified in the 1998 Camp Hero FS (Cashin 1998) and others identified during the 2016 records review conducted in preparation of the RI, as described in the Phase I RI WP (AECOM-Tidewater JV, 2016). The locations of the AOCs are shown on the Site Map in **Figure 1-2**. Groundwater elevations across the facility are presented in **Figure 4-1**.

Analytical results from the Phase I sampling are provided in Appendix G (Laboratory Analytical Reports). Tables with analytical results compared to PSLs will be provided as part of the WP Addendum for those AOCs included in the Phase II sampling, and in the final RI Report for all AOCs. The field operations and results for the Phase I Investigation are provided for AOC in the subsections below and also documented in the Daily Reports (Appendix H). **Table 3-1** (Appendix B) provides a summary of the Phase I investigation activities and the analytical samples collected at each AOC. Photographs of the AOCs are included in the Photograph Log (Appendix I).

4.1 Battery 113

Battery 113 has historically been referred to as Bunker-1 and Battery Dunn. Battery 113 historically contained two 16-inch casemated guns and battle allowances of ammunition and powder charges were stored within the battery. Battle allowances of ammunition and powder charges for the Camp Hero battery guns were stored within the individual batteries of the camp. The Camp Hero FS (Cashin 1998) noted a cluster of tanks of various sizes and shapes inside Battery 113, the prior purpose of which is unknown. These included two cylindrical red-painted tanks suspended from the wall; three vertical tanks standing on the floor, which have heavily rusted exteriors; and what was suspected to be one or more tanks in a wooden enclosure on the floor. These tanks were thought to be part of a single system, or multiple systems, possibly including fire suppression, hydraulic fluids, emergency water supply, or emergency fuel supply. Waste drums were also noted. During the records review of archived NY State Park Service drawings of Battery 113, the two cylindrical red-painted tanks suspended from the wall are identified as 150 gallon diesel fuel tanks.

Additionally, the Cashin Report notes Battery 113 to have had oil staining under electrical equipment in the old electrical room. This location was sampled for PCBs, and results showed a PCB level of 24,200 ppb (Cashin 1998).

Phase I Field Operations: A site survey of Battery 113 was conducted during Phase I field activities to identify the presence of tanks and waste drums, assess if standing water was present in pits, and identify visual evidence of potentially PCB-contaminated stained concrete. Prior to entering the building, the team conducted demolition of the sealed entryway to Battery 113 to create an entrance for the team, using a hammer drill and sledge hammer. Four team members

entered the battery to complete the survey. Team members wore tyvek suits, rubber booties, nitrile gloves, full or half-face respirators with P100/OV cartridges, hardhats, and head lamps. The buddy system was utilized while inside the Battery and at least one team member was stationed outside the entrance of the Battery at all times.

Two sub-slab pits with standing water were observed in Battery 113. Additional pits, open manholes, and trenches were observed throughout the Battery, but no others contained standing water. One liquid characterization sample was collected from one of the open pits (B113-LC02-01) for laboratory analysis of VOCs, SVOCs, PCBs, and metals. A second sample was not collected from the other pit with water because it appeared to contain human waste.

The Power Room was identified during the site survey and two diesel storage tanks (identified as 150-galllon Tanks 3 and 4 in site records) were still present on the wall in good condition. No labels were present on the tanks. The field team was able to determine that fluid was still present in the Tanks and one liquid characterization sample (B113-LC01-01) was collected for fuel analysis, ignitability, and toxicity for purposes of disposal characterization. Approximately 16 L of volume was collected for fuel characterization and volume was still present in the tanks; however, the field team could not determine the remaining volume in the tanks. A level meter was present on the wall adjacent to the tanks, which indicated the tanks volume was 3/4 full; however, the field team could not verify the meter's purpose or whether it was still working.

Three extremely rusted, unlabeled cylinders were present below Tanks 3 and 4; however, the cylinders appeared to be empty. Additionally, trenches with piping were present in the Power Room; some of the trenches were covered with metal plate covers and others were covered with wooden planks. The wooden planks were rotting and falling apart in most places. No tanks or storage units were observed in the trenches. Additionally, the Cashin report had mentioned drums present in the power room near Tanks 3 and 4 (Cashin 1998), however, no drums were present in the Power Room at the time of the field survey.

An electric room on the North side of the Power Room was identified, containing portions of a former transformer labeled as Marcus Transformer Company, Inc., and four severed single conductor electric breakout cables mounted on the wall. Dried oil was observed on parts of the transformer carriage and oil staining was noted on the concrete floor in this area. One wipe sample (B113-WP01-01) was collected from the oil-stained surface and one concrete chip sample (B113-CC01-01) was collected at the location of the stained concrete, using the hammer drill with a decontaminated drill bit. Additionally, an equipment blank was collected from the decontaminated drill bit after sampling. The wipe sample, concrete chip sample, and equipment blank were submitted for laboratory analysis of PCBs.

Phase I sampling locations at Battery 113 are shown on **Figure 4-2**.

Deviations from the RI WP: Per the RI WP, if liquid was present in the tanks or drums in Battery 113 during the site survey, a liquid characterization sample was to be collected for VOCs, SVOCs, PCBs, and metals at RTI Laboratories. Because the liquid present in the Battery 113 tanks appeared to be weathered fuel, samples were instead collected for fuel analysis (ignitability and toxicity) for purposes of disposal. Samples were submitted to AB Environmental (Bohemia, NY) via subcontract with CGE.

4.2 Battery 112

Battery 112, also known as Bunker-3, is also associated with UST 36 and UST 37, which were located outside the battery. Battery 112 consisted of two 16-inch casemated guns and battle allowances of ammunition and powder charges were stored within the battery. Battle allowances of ammunition and powder charges for the Camp Hero battery guns were stored within the individual batteries of the camp. Battery 112 had a battle allowance of 200 16-inch 2,240-lb projectiles.

The Cashin Report noted that the "as-built" plans for Battery 112 show that the floor plan for Battery 113 and Battery 112 (Bunker 3) are identical; however, no tanks or waste drums were observed in Battery 112 in the Cashin Report.

Phase I Field Operations: A site survey was recommended in the RI WP to confirm that ASTs are not present in Battery 112 and to complete a visual inspection for evidence of PCB-contaminated stained concrete.

Deviations from the RI WP: It was noted in the Project Kick-Off Meeting in October 2015 that Battery 112 is sealed and access inside the building was not feasible. Access to Battery 112 was assessed during the Phase I field operations; however, Mr. Tom Dess, NY State Park Superintendent, indicated that the building was completely sealed and that safe access was not available, and therefore the site survey was not completed.

4.3 Building 107

Building 107 is also known as Building 5 (Cashin Report) or the Electrical Substation. The Cashin Report noted that transformers were in the basement of the building and may have contained or contain PCBs. Archive pictures of Building 107 show multiple electrical conduits in a concrete trench with metal covering that extended to the power generating building 203.

In an August 2000 environmental assessment, a stained area was noted in the northeast comer of the basement of Building 5, which was three feet by five feet in area. At that time, there was an opening to the outside approximately three to four feet above the floor. No floor drains were

observed in the basement where the four transformers are still mounted on the wall. A concrete chip sample was collected from the stained area (Weston 2000).

Analytical results indicated that PCBs were present within the observed oil stain at a level above the Toxic Substances Control Act (TSCA) unrestricted use limit of 1 milligram per kilogram (mg/kg). Based on the depth of the PCBs in the concrete, it appeared that the oil had not migrated outside the building at that time. The findings indicated that no significant ecological or human health threats existed via migration.

Phase I Field Operations: Access to the basement of Building 107 was available for the field team upon arriving on-site; a hole was present in the Northeast corner of the building. The field team performed a visual survey Building 107. Parts of the wall-mounted transformer were still present in the basement. The field team attempted to verify if fluids are present in the transformers but was not able to open the pieces of the transformer which were still present. However, dried oil was running down the side of the wall-mounted portions of the transformer and minimal staining was noticed on the concrete. Three samples were collected for analysis of PCBs: one sample of the dried fluid (107-LC01), one wipe sample on the surface of the stained transformer (107-WP01), and one concrete chip sample within the stained area (107-CC01). The Phase I sampling locations at Building 107 are shown on **Figure 4-3**. The integrity of the original building was not be impacted during the sampling effort.

Deviations from the RI WP: None.

4.4 Building 201

Building 201 is also known as Building 1 (Cashin Report), Building #P-201, the Radar Tower, and AN/FPS-35. Building 201 is a 5-story radar tower with 2-foot thick concrete walls and was sealed off by USACE and NYS Parks to prohibit entrance. The building has a large steel radar dish, which was a prime component of the DoD early detection radar systems. Building 201 was associated with UST 20, which was removed and included in NYSDEC Spill Report #93-12038.

The Cashin Report recommended further investigation for possible oil leaks and PCB releases. In an August 2000 Data Collection Report (Weston 2000), the first floor of the Radar Tower contained a stained area, which was approximately four feet by six feet in area. The stained area was present below several pipes extending from the ceiling labeled "refrigerated water return." The stained area was reported as not darkly stained and adjacent to a six-inch diameter floor drain. The concrete was not stained below 0.5 inches. One chip sample (from the stained area), four surficial soil, and one subsurface soil sample was obtained at the Radar Tower for PCB analysis (Weston 2000).

PCBs were detected in the surface soil only at sample location (SS-14) at the Radar Tower. Aroclor 1254 was detected at 1.4 mg/kg, which is just above the TSCA unrestricted use limit of 1 mg/kg. Based on the data provided in the 2000 report, the area of contamination appears to be minimal, as no PCBs were detected above the regulatory criteria in adjacent samples collected within 50 ft of that location (Weston 2000).

Additionally, analytical results indicated that PCBs were present within the observed concrete oil stain at a level above the TSCA unrestricted use limit of 1 mg/kg in the Radar tower. Based on the depth of the PCBs in the concrete, it appeared that the oil had not migrated outside the building. The findings indicated that no significant ecological or human health threats existed via migration. Weston recommended that the stains addressed by concrete removal, painting, or controlling building access (Weston 2000).

A structure adjacent to the Radar Tower was also noted in the Data Collection Report, which appeared to be a cesspool. A cesspool was also identified on sanitary drawings obtained during the records research for this RI WP.

In 2002, the Radar Tower was listed on the National Register of Historic Places through the Department of the Interior. The NY State Office of Parks, Recreation, and Historic Preservation and the Department of Interior were contacted prior to beginning the Phase I investigation at this AOC. Sampling at this located was minimally-invasive during Phase I to ensure the preservation and conservation of the Radar Tower and Antenna.

Phase I Field Operations: One Geoprobe® boring was conducted adjacent to the former Radar Tower cesspool to 25 ft bgs. Water was not encountered in the boring. The soil core was screened with a PID; no readings above 0.0 parts per million (ppm) were observed and there were no visual indicators of staining. Two soil samples were obtained from the boring, from 9 to 10 ft bgs and from 24 to 25 ft bgs, and submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals, which may have been released to the cesspool from historic activities at the Radar Tower.

A temporary well was placed in the boring with a 10-foot screen; however, the well was dry upon gauging four days later and a groundwater sample could not be collected. The Phase I sampling location at Building 201 is shown on **Figure 4-4**.

Deviations from the RI WP: A site survey of the bottom floor of the Radar Tower where transformers and staining was observed during previous assessment (Weston 2000) was proposed in the RI WP. However, safe access inside the Radar Tower was not available during Phase I RI activities. Mr. Tom Dess, NY State Park Superintendent, indicated that the building was completely sealed, the structures and stairwells inside are not stable, and he did not believe it is safe for

anyone to enter. As such, a site survey inside the Radar Tower was not completed and the proposed PCB wipe sample was not collected.

4.5 Battery 216

The Records review revealed concern for potential buried metal debris, unknown USTs, or underground vaults around Battery 216. The RI WP recommended a geophysical survey around the building and Geoprobe® borings if underground anomalies were identified.

Phase I Field Operations: A geophysical survey was conducted around the Battery to confirm the absence or presence of underground anomalies. The geophysical survey results indicated mostly debris or infrastructure, as identified on the geophysical survey map in Appendix E. No responses of significant size to be considered vaults or storage facilities or unique features which would require new sampling locations were identified. No borings were advanced and no environmental samples were collected.

Deviations from the RI WP: None.

4.6 Plotting Room 113

Records review revealed concern for potential buried metal debris or unknown USTs around Plotting Room 113. The RI WP recommended a geophysical survey around the building and Geoprobe® borings if underground anomalies were identified.

Phase I Field Operations: A geophysical survey was conducted around Plotting Room 113 in May 2016 to confirm the absence or presence of underground anomalies. The geophysical survey results indicated a potential waste area on the north side of the building, with concentrated subsurface metal debris, as identified on the geophysical survey map in Appendix E.

In June 2016, three borings were conducted to the depth of the perched aquifer within the subsurface anomaly area (P113-SB01 through -SB03). The soil cores were screened with a PID; no readings above 0.0 ppm were observed. Two soil samples were collected per boring from P113-SB01 and -SB02: one from the upper portion and one just above the soil-groundwater interface. Only one sample was collected from P113-SB03 because the groundwater was encountered at 1 ft bgs. Soil samples were submitted for laboratory analysis of the NYSDEC STARS lists for fuel oil and gasoline VOCs, SVOCs, and lead.

A temporary well was installed in each boring. One grab groundwater sample was collected from each boring and submitted for laboratory analysis of VOCs, SVOCs, and lead. Phase I sampling locations at Plotting Room 113 are shown on **Figure 4-5**.

Deviations from the RI WP: None.

4.7 Building 2010 (UST 30)

Building 2010 was formerly operated as a groundwater supply well pump house. The well house contained a power generator for groundwater pump operation which was connected to UST 30. A 100-gallon gasoline UST was removed from the southeast corner of Building 2010 in October 1993. The excavation was 4.5 ft by 7 ft by 4.5 ft deep. The NYSDEC Tank Removal Form indicated that no release had occurred from the UST. Low levels of petroleum were detected in soil samples from the excavation; however, lead was reported to be as high as 600 ppm (NYSDEC Tank Removal Form, December 1994).

Phase I Field Operations: To determine the presence or absence of lead in soil and groundwater, two Geoprobe® borings (2010-SB01 and -SB02) were advanced adjacent to the former 100-gallon UST excavation at the southeast corner of Building 2010 to a depth of 7 ft bgs. Four soil samples were collected from each boring, from the 0 – 4 ft bgs, 4 – 5 ft bgs, 5 – 6 ft bgs, and 6 – 7 ft bgs intervals, for laboratory analysis of lead.

A temporary well was set in 2010-SB02 and a grab groundwater sample was collected for laboratory analysis of lead. Phase I sampling locations at Building 2010 are shown on **Figure 4-6**.

Deviations from the RI WP: A temporary well was not placed at 2010-SB01 and thus a groundwater sample was not obtained from this boring; the on-site USACE and AECOM geologists agreed that the formation was too tight to produce sufficient water for sample collection.

4.8 Building F100C (UST 34)

Building F100C has previously been referred to in the Cashin Report as Building 40 and formerly operated as a groundwater well supply pump house. UST 34 was a 275 gallon gasoline tank removed from the south side of Building F100C in October 1993. Ten yards of petroleum-impacted soil was removed from around the UST at that time. Low levels of petroleum were detected in soil samples from the excavation and lead was reported to be as high as 549 ppm (NYSDEC Tank Removal Report, December, 1994).

Phase I Field Operations: To confirm the presence or absence of lead above regulatory concentrations in soil and groundwater, two Geoprobe® borings were advanced immediately adjacent to the former 100-gallon UST excavation at the south of Building F100C to a depth of 7 ft bgs. Four soil samples were collected from each boring, from the 0 – 4 ft bgs, 4 – 5 ft bgs, 5 – 6 ft bgs, and 6 – 7 ft bgs intervals, for laboratory analysis of lead.

Temporary wells were set in the borings and one grab groundwater grab sample was collected from each boring for laboratory analysis of lead. Phase I sampling locations at Building F100C are shown on **Figure 4-7**.

Deviations from the RI WP: None.

4.9 AST-35 (H-13)

One aboveground storage tank (AST) at Camp Hero (AST-35, also identified as H-13 in the Cashin Report) did not have complete closure documentation at the time of records review. The H-13 location was identified in the Cashin Report as a sewage holding tank; however, the Cashin Report and archive drawings indicated that a 200,000-gallon diesel fuel AST was located at this site (Cashin 1998). The archive research indicated that there was a 1,000-gallon release from this tank; however, the available documentation is incomplete.

Phase I Field Operations: Four Geoprobe® borings (AST35-SB01 through -SB04) were advanced to 10 ft bgs (just past the depth of the perched water table) around the concrete containment unit for the former AST, in compliance with 6 NYCRR 613.9(b). The soil cores were screened with a PID; no readings above 0.0 ppm were observed. However, elevated PID readings were observed at the adjacent Fuel Pump House (FPH) AOC (see below). Two soil samples were collected from each boring above the groundwater-soil interface. Soil samples were submitted for laboratory analysis of petroleum compounds by the NYSDEC STARS list for fuel oil VOCs and SVOCs.

A temporary well was installed in each boring and one groundwater sample was collected from each boring for analysis of VOCs and SVOCs. Phase I sampling locations at AST-35/H-13 are shown on **Figure 4-8.**

Deviations from the RI WP: The RI WP recommended that one of the four Geoprobe® borings were to be located within the containment unit of the former AST. However, access inside the containment wall was not available for the Geoprobe® rig, and the four borings were conducted around the accessible portions of the containment wall.

Additionally, the RI WP proposed two piezometers upgradient and downgradient of AST-35 to determine groundwater flow direction around AST-35, the FPH, and Building 203. However, piezometers were not needed within in the AST-35 AOC because the temporary wells installed at AST-35 and the FPH provided sufficient coverage of the area. However, three piezometers were installed at the Building 203 AOC to assist in determining groundwater flow direction.

4.10 Fuel Pump House and Distribution Line for AST-35

Archive drawings indicated that a fuel pump house is located on the northwest side of the former AST-35 pad and that a fuel line may have extended from the former AST-35 location to the former generators at Building 203. No additional information about the fuel line is available. During the January 2016 site walk, fuel odor was noticed inside the Fuel Pump House.

Phase I Field Operations: A geophysical survey was conducted around the fuel pump house in May 2016 to confirm the absence or presence of the fuel pipeline. The geophysical survey results identified the fuel pipeline extending southwest from the fuel pump house, as shown on the geophysical survey map in Appendix E. In June 2016, the fuel pump house distribution line was further traced with a hand-held magnetometer. Hand digging along the distribution line confirmed that the distribution line had been cut and removed after approximately 6-feet from the fuel house. Soil excavated from around the existing fuel line did not indicate noticeable staining or petroleum odor.

Four Geoprobe® borings (FPH-SB01 through -SB04) were conducted to 10 ft bgs around the FPH building and remaining portion of the distribution line, in compliance with 6 NYCRR 613.9(b) (NYCRR 2015b). The soil cores were screened with a PID; elevated PID readings were observed at locations FPH-SB02 (maximum of 13.0 PPM) and FPH-SB04 (maximum of 203 PPM). Water was encountered between 1 ft bgs and 5 ft bgs in the borings; two soil samples were obtained from each boring above the soil-water interface. Sample intervals were biased to depths where there were elevated PID readings or visual indicators of staining were observed. Soil samples were submitted for laboratory analysis of petroleum compounds by the NYSDEC STARS list for fuel oil VOCs and SVOCs.

A temporary well was installed in each boring and one groundwater sample was collected from each boring for analysis of VOCs and SVOCs. Petroleum odor was observed in the purge water from all four temporary wells. Phase I sampling locations at the FPH and Distribution Line for AST-35/ H-13 are shown on **Figure 4-9**.

Deviations from the RI WP: The RI WP proposed nine soil borings at the FPH (three at the building, six along the distribution line to Building 203), at locations based on the results of the geophysical survey. However, because the fuel pipe was cut approximately 6 ft from the FPH, only four borings were conducted around the FPH and the remaining portion of the fuel line.

Additionally, the RI WP proposed that one of the borings would be conducted inside the FPH. However, access inside the FPH was not available and the Geoprobe® rig would not have been able to clear the ceiling of the FPH if access had been available. Therefore, borings were not completed inside the building but relocated immediately adjacent to the building.

4.11 Building 203

Former Building 203, the former power building, housed four large generators which supplied electrical power to Camp Hero. USTs outside of Building 203 were utilized to supply fuel and lubricants to the generators.

Previous Actions and Investigations: In 1994, UST 16 (25,000 gallon #2 fuel oil), UST 18 (25,000 gallon #2 fuel oil), and UST 17 (1000 gallon lube oil) were removed from the perimeter of former Building 203. USTs 16 and 18 were located on the south side of the building and UST 17 was located on the southeast side of the building. Upon removal of USTs 16 and 18, a green liquid that appeared to be ethylene glycol was observed on the sidewalls of the excavation and on water standing in the bottom of the excavation at 17 ft bgs. A solvent odor was present and it was suspected that solvents had been dumped around the building based on visual evidence of surface soil staining and elevated volatile and semivolatile laboratory results of soil. The area behind former Building 203 and adjacent to the USTs was described as a dumping ground for waste oil and spent solvents. A French drain was also observed during excavation activities to surround the Building 203 foundation. The French drain was suspected of acting as a conduit to allow hazardous liquids to migrate around the foundation of the building and into the subsurface soil (NYSDEC Spill Report 93-09575 1993).

Additionally, several drums of glycol were identified at the site during the 1993 UST removal action and several hundred feet of piping containing 150 gallons of ethylene glycol were noted in the former power generator building, presumably used for cooling the generators (NYSDEC Spill Report 93-09575 1993). However, ethylene glycol is a clear, colorless, and viscous liquid that is miscible in water and rapidly biodegrades in soils. It is very likely that ethylene glycol in soils would not be detected at this time decades after it was released. In addition, the soils and foundation around former Building 203, which likely contained ethylene glycol, were excavated during decommission of the building.

In 1995, the single excavation pit for USTs 16 and 18 was over-excavated and 2,500 yards of soil were removed. A Site Assessment Report was submitted for the site to NYSDEC in June 1995 (USACE, 1995). Nine Geoprobe® borings were conducted surrounding the USTs excavation and two Geoprobe® locations were conducted near the center of the excavation. The Geoprobe® location near the center of the excavation was advanced to 53 ft bgs in an attempt to reach groundwater; however, no groundwater was intercepted to this depth. Dense clay was found at depth and surrounding the UST excavation. A soil sample was taken at 53 ft bgs with analysis results below screening criteria. A temporary well was installed to 21 ft below grade, which slowly recharged with groundwater overnight. The results of the soil samples and the groundwater sample taken from the Geoprobe® boreholes were below screening criteria. However, the laboratory method detection limits utilized in the assessment at that time are roughly 10 orders of magnitude higher than what is currently required to evaluate human health risk. The Spill Report Case was closed by the NYSDEC in July 1995.

In 2000, during additional site-wide environmental assessment at Camp Hero by the USACE, a surface water sample was obtained from a drainage area below Building 203 near where a small ditch leading from Building 203 was observed to outfall (Weston 2000). The sample was analyzed for PCBs, SVOCs, and metals. No PCBs or SVOCs were detected in the surface water sample. Two metals, zinc and arsenic, were detected in the sample but were below screening criteria.

Phase I Field Operations: Five Geoprobe® borings (203-SB01 through -SB05) were advanced within the area of the former Building 203 and UST excavation to the depth of the perched aquifer or to 25 ft bgs, whichever was encountered first. Building 203 and USTs have been excavated and replaced with clean fill; the borings were located just beyond the excavation and fill zones to the extent possible. The soil cores were screened with a PID; no readings above 0.0 ppm were observed in borings 203-SB01 through -SB03, but elevated readings of up to 11.3 ppm and 402.8 ppm were observed in borings 203-SB04 and -SB05, respectively. A dense clay layer was encountered between 2 and 20 ft bgs across the AOC; the Phase I RI soil sampling was focused on the layer just above the clay as a potential contaminant transport zone from former Building 203 and the USTs.

Two subsurface soil samples were collected from each boring above the sand-clay interface, with the exception of 203-SB02, because the clay layer was encountered at 2 ft bgs. Sample intervals focused on those with the largest PID readings, if elevated PID readings were observed. Soil samples were submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals.

Temporary wells were installed in the borings and grab groundwater samples were collected for laboratory analysis of VOCs, SVOCs, PCBs, and metals. However, recharge in some of the wells was insufficient to collect the required volume for all planned analyses. The wells were visited multiple times by the sampling team and the collected volume was submitted for laboratory analysis of a shortened analyte suite: VOCs, metals, and one liter for SVOCs were submitted.

Additionally, three piezometers were installed upgradient and downgradient of the Building 203 UST 16 and 18 excavations (PZ-1 through PZ-3) to help determine radial groundwater flow and direction information in the vicinity; analytical samples were not collected from these piezometers. Phase I sampling locations and piezometer locations at Building 203 are shown on **Figure 4-10**.

Upon gauging the piezometers, approximately 5 ft of light non aqueous phase liquid (LNAPL) was observed in piezometer PZ-3. The LNAPL appeared to be weathered petroleum product. Thickness was physically measured to be 8.00 ft to 13.30 ft with 5 ft measured using an interface probe. A petroleum release at AOC Building 203 was made to the NYSDEC hotline by USACE (Ms. Megan Cullen). Pollution Complaint Number PC-1602757 was assigned to the reported release. Mr. Dess

(NYS Camp Hero Park Superintendent) was also notified that a release at former Building 203 had been reported to NYSDEC.

Deviations from the RI WP: As detailed above, an abbreviated analytical suite was submitted due to recharge of groundwater in the temporary wells. Additional piezometers were installed to help determine groundwater flow direction, which were not in the RI WP.

4.12 Suspected Tank A

Seven suspected tanks were identified during the records review (Suspected Tanks A through G); no closure documentation was available for these tanks, but archive drawings indicated possible locations of the tanks. The suspected UST located behind former Building 20 (former Fire Department) was designated Suspected Tank A.

Phase I Field Operations: A geophysical survey was conducted around former Building 20 to confirm the absence or presence of Suspected Tank A. The geophysical survey results indicated subsurface anomalies, including inferred utility junctions, documented culvert end-points, and confirmed fence-line and building infrastructures, as identified on the geophysical survey map in Appendix E. However, a tank-sized object was not identified at the location indicated in the archive drawings, nor elsewhere in the survey data, implying that the tank had been removed. Additionally, no unique features were identified which should present new concerns of potential environmental release or require new sampling locations.

Because no tank-sized features were identified in the geophysical survey, no borings were advanced and no environmental samples were collected.

Deviations from the RI WP: None.

4.13 Suspected Tank B

Seven suspected tanks were identified during the records review summary (Suspected Tanks A through G); no closure documentation was available for these tanks, but archive drawings indicated possible locations of the tanks. A suspected UST located at Building 22 was designated Suspected Tank B.

Phase I Field Operations: A geophysical survey was conducted around Building 22 to confirm the absence or presence of Suspected Tank B. The geophysical survey results identified two possible tanks on the east side of Building 22, as identified on the geophysical survey map in Appendix E. The location the first of the two anomalies was consistent with location of the suspected tank identified in historical records (Suspected Tank B). The second tank-like anomaly was just north of Building 109. This anomaly was designated as Suspected Tank H and was

investigated as a separate AOC (see below). Signals received to the west side of Building 22 were considered to be likely associated with subsurface utilities.

In June 2016, small "test holes" were conducted at the Suspected Tank B location using shovels. Miscellaneous building debris was uncovered, but no evidence of a tank was identified. However, a petroleum odor was noted in the uncovered soil; therefore, four borings (STB-SB01 through -SB04) were advanced to 10 ft bgs (just below the depth of the water table) in the vicinity of the petroleum odor. The soil cores were screened with a PID; no readings above 0.1 ppm were observed. One sample was collected from each boring just above the soil-water interface. An additional three surface soil samples were collected (STB-SS05 through -SS07) from 0 to 1 ft bgs in the vicinity of the borings. Soil samples were submitted for analysis of the NYSDEC STARS list for fuel oil VOCs and SVOCs.

Temporary wells were placed in the borings. Because a tank was not present in the subsurface, grab groundwater samples were only collected from two of the borings: one up-gradient and one down-gradient of the soil with petroleum odor (STB-SB01 and -SB03, respectively). Groundwater samples were submitted for analysis of VOCs and SVOCs. Phase I sampling locations at Suspected Tank B are shown on **Figure 4-11**.

Deviations from the RI WP: The RI WP proposed collection of two samples per boring and no separate surface soil samples; because no tank was located, only one sample was collected per boring and an additional three surface soil samples were collected. Surface soil samples were added based on the observation of petroleum odors in near surface soils but not at depth in the borings. The RI WP also proposed collection of four grab groundwater samples if a tank was located. Because no tank was located, only two grab groundwater samples were collected.

Additionally, after the May 2016 field activities, USACE and AECOM-Tidewater JV discussed collection of a grab groundwater sample from the existing well in the parking lot behind Building 22. During the June 2016 field activities, the USACE and AECOM-Tidewater JV team agreed that samples will not be collected from monitoring wells during Phase I; rather, the well will be sampled via low-flow methodology during Phase II when other newly-installed monitoring wells are sampled, pending results of the Phase I investigation.

4.14 Suspected Tank C

Seven suspected tanks were identified during the records review summary (Suspected Tanks A through G); no closure documentation was available for these tanks, but archive drawings indicated possible locations of the tanks. A suspected UST located at former Building 2 was designated Suspected Tank C.

Phase I Field Operations: A geophysical survey was conducted around former Building 2 to confirm the absence or presence of Suspected Tank C. The geophysical survey identified multiple underground anomalies in the area of former Building 2, one of which was consistent with the location of the suspected tank identified in historical records, as identified on the geophysical survey map in Appendix E. Five additional anomalies were identified which were believed to be historic underground utilities.

In June 2016, small "test holes" were conducted at the Suspected Tank C location identified by the geophysical survey using shovels. Miscellaneous building debris was uncovered, and no evidence of a tank or petroleum-contaminated soil was identified. Therefore, no borings were conducted and no environmental samples were collected.

Deviations from the RI WP: None.

4.15 Suspected Tank D

Seven suspected tanks were identified during the records review summary (Suspected Tanks A through G); no closure documentation was available for these tanks, but archive drawings indicated possible locations of the tanks. A suspected UST located at former Building 104R was designated Suspected Tank D.

Phase I Field Operations: A geophysical survey was conducted around Building 104R to confirm the absence or presence of Suspected Tank D. The geophysical survey results indicated an abundance of utility connections along with former building and concrete pad infrastructure, as identified on the geophysical survey map in Appendix E. However, a tank-sized object was not identified at the location indicated in the archive drawings, nor elsewhere in the survey data, implying that the tank had been removed. Additionally, no unique features were identified which should present new concerns of potential environmental release or require new sampling locations.

Because no tank-sized features were identified in the geophysical survey, no borings were advanced and no environmental samples were collected.

Deviations from the RI WP: None.

4.16 Suspected Tank E (Building 3001)

Building 3001 has also historically been referred to as Building 47 (Cashin Report), State Park Police Lilco Building, and AT&T Building. UST 26 was previously removed from Building 3001, and another tank (AST 49) remains in use at the building. Archive drawings suggested a third UST in the vicinity of the former UST 26 location (Suspected Tank E). Additionally, one existing well is located on the South side of Building 3001, which was previously used as a water source in the building prior to

connection to Suffolk County Water in 2011. The RI WP recommended collection of one grab groundwater sample from the existing well for analysis of VOCs and SVOCs.

Phase I Field Operations: A geophysical survey was conducted around Building 3001 to confirm the absence or presence of Suspected Tank E. The geophysical survey results indicated building and fence-line interference, along with verified manholes and telephone pole surface features, as identified on the geophysical survey map in Appendix E. However, a tank-sized object was not identified at the location indicated in the archive drawings, nor elsewhere in the survey data, implying that the tank had been removed. Additionally, no unique features were identified which should present new concerns of potential environmental release or require new sampling locations. Because tank-sized features were not identified in the geophysical survey, borings were not completed at this AOC.

Additionally, the existing well, which is no longer used at Building 3001, could not be sampled as the well is disconnected and access to groundwater through the well head seal was not available.

Deviations from the RI WP: None.

4.17 Suspected Tank F

Archive figures indicated that Suspected Tank F could be located at the pump house near Battery 216 (also known as Bunker-4). This groundwater pump house was suspected to have a UST in proximity to the building, because similar pump house on Camp Hero had a 100 gallon gasoline UST removed.

Phase I Field Operations: A geophysical survey was conducted in the vicinity of the pump house near Battery 216 to confirm the absence or presence of Suspected Tank F. Due to dense vegetation and terrain, the area was assessed using AGM. Interferences (e.g., buildings, fences) or metallic items large enough to represent a UST were not identified, as shown on the geophysical survey map in Appendix E. Because tank-sized features were not identified, no borings were advanced and no environmental samples were collected.

Deviations from the RI WP: None.

4.18 Suspected Tank G

An additional pump house was noted at Well 4 during the January 2016 site walk. This groundwater pump house was suspected to have a UST (Suspected Tank G) in proximity to the building, because similar pump house on Camp Hero had a 100 gallon gasoline UST removed.

Phase I Field Operations: A geophysical survey was conducted around the pump house to confirm the absence or presence of Suspected Tank G. Due to dense vegetation and terrain, the

area was assessed using AGM. No interferences (e.g., buildings, fences) or metallic items large enough to represent a UST were identified, as shown on the geophysical survey map in Appendix E. Because no tank-sized features were identified, borings were not completed at this AOC.

4.19 Suspected Tank H

Seven suspected tanks were identified during the records review summary (Suspected Tanks A through G). Geophysical surveys were conducted in May 2016 to confirm the presence or absence of the suspected tanks. During the geophysical survey around Building 22, an additional tank-sized anomaly was identified just north of Building 109. This anomaly was designated as Suspected Tank H and was investigated as a separate AOC.

Phase I Field Operations: In June 2016, small "test holes" were conducted at the Suspected Tank H location using shovels. Miscellaneous building debris was uncovered, but there was not any evidence of a tank or petroleum impacts. Therefore, borings were not completed at this AOC.

Deviations from the RI WP: The Suspected Tank H AOC was not included in the RI WP but was added to the investigation after the geophysical surveys in May 2016.

4.20 Abandoned Waste Disposal System (Site-Wide)

The site-wide Abandoned Waste Disposal System is a suspected former area of hazardous waste dumping. The abandoned site-wide sanitary sewer was identified during the 2016 historical records search from archive drawings of Camp Hero provided by the NY State Parks; the system was abandoned and has not been used by the NY State Parks. The drawings indicate that septic fields and cesspools were also utilized at Camp Hero prior to construction of the site-wide sanitary sewer system. The system was connected to a chlorine chamber for treatment prior to discharge to the Atlantic Ocean at a headwall outfall. The location of the site-wide sanitary sewer line and former septic fields and cesspools are shown on the Site Map (**Figure 1-2**).

Phase I Field Operations: Twenty-seven Geoprobe® borings (WDS-SB01 through -SB27) were advanced throughout the abandoned waste disposal system, at locations targeting former leach fields and cesspools downgradient from buildings which may have utilized hazardous materials. Boring locations were biased to potential weak sites or collection areas along the sewer line, such as locations of 90-degree turns, where the sanitary line was joined by a secondary sanitary line from former operations buildings, collection tanks, and at the chlorine contact chamber. The locations of former sanitary leach fields, septic tanks, and cesspools utilized prior to construction of the site-wide sanitary sewer system were also included in the soil and groundwater sampling.

Borings were advanced to the depth of the targeted abandoned waste disposal system features (bottom of the leach field, septic tank, cesspool, etc.). The soil cores were screened with a PID;

readings above 0.0 ppm were not observed. One soil sample was collected from each boring at depth. Temporary wells were set in each boring and grab groundwater samples were collected. Soil and groundwater samples were sent to the laboratory for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sample locations for the site-wide abandoned waste disposal system are shown on **Figures 4-12** through **4-16**.

Deviations from the RI WP: At some locations, groundwater recharge was insufficient to fill all required sample bottleware, even after multiple attempts; in those instances, the volume obtained was submitted for analysis of shortened list of analytes.

4.21 Motor Pool

The Motor Pool building contained a hydraulic lift for vehicle maintenance. According to the State Park Superintendent (Mr. Tom Dess) in a phone interview, the concrete floor over the hydraulic lift was capped at the time the State Park began utilizing the Facility. Since that time, the Motor Pool building has been beneficially reused by the NY State Park. A 1940 Camp Hero archive site map identifies the Motor Pool building was once utilized as an Ordnance Repair Shop. A floor drain was likely present in the building during DoD use of the building.

Additionally, a cesspool on the east side of the motor pool, downgradient from the building, has also been identified through the historical records search. There is potential that petroleum, munitions constituents, and/or hazardous materials may have drained through the floor drain, which may have led to the cesspool. There was no evidence of a discharge pipe from the Motor Pool Building to the ground surface outside of the Motor Pool Building observed during a site walk over in this area conducted on 3 November 2015 during the project kick-off meeting.

One existing groundwater supply well currently utilized for non-potable purposes at the Motor Pool (untreated tap) is located on the west side of the building.

Phase I Field Operations: At the location of the former hydraulic lift, one Geoprobe® boring (MP-SB01) was advanced through the concrete slab adjacent at the former hydraulic lift to 10 ft bgs, just past the depth of the bottom of the former lift, which is assumed to be 8 to 10 ft bgs. Concrete coring was conducted prior to boring. Additionally, concrete and debris were encountered in the boring around 9 ft bgs. The soil core was screened with a PID; elevated PID readings from 5 to 10 ft bgs were observed (maximum of 21.0 ppm). One soil sample was collected 4 to 5 ft bgs from the non-native and native soil interface, which was also just above the soil-water interface, for analysis of the NYSDEC STARS list for fuel oil VOCs and SVOCs. A temporary well was placed in the boring and a grab groundwater sample was collected for analysis of VOCs and SVOCs. Petroleum odor was observed in the purge water during groundwater sample collection. The temporary well was abandoned and the concrete was patched at grade once sample collection was complete.

Adjacent to the location of the former floor drain to the cesspool just outside the building (approximately 6 ft from the edge of the building), one Geoprobe® boring (MP-SB02) was advanced to 15 ft bgs, just past the depth of the perched water table. The soil core was screened with a PID; no readings above 0.0 ppm were observed. Two soil samples were collected from the boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from 11 to 12 ft bgs, just above the soil-water interface. Soil samples were submitted for laboratory analysis of the NYSDEC STARS list for fuel oil VOCs and SVOCs and for energetics. A temporary well was placed in the boring and a grab groundwater sample was collected for analysis of VOCs, SVOCs, and energetics.

Along the sewer line from the building to the cesspool, one Geoprobe® boring (MP-SB03) was advanced to 15 ft bgs, just past the depth of the perched water table. Two soil samples were obtained from the boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from 8 to 9 ft bgs, just above soil-water interface, for laboratory analysis of the NYSDEC STARS list for fuel oil VOCs and SVOCs, PCBs, and energetics. A temporary well was placed in the boring and a grab groundwater sample was collected for analysis of VOCs, SVOCs, PCBs, and energetics.

Additionally, one grab groundwater sample was collected from the existing well located on the west side of the Motor Pool from an available untreated tap for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, energetics, and metals. The Phase I sampling locations at the Motor Pool are shown on **Figure 4-17**.

Note that an additional soil boring (WDS-SB11) was conducted immediately adjacent to the cesspool as part of the site-wide abandoned waste disposal system AOC.

Deviations from the RI WP: None.

4.22 Engineering Field Office

A former engineering field office building was identified on a 1940 site map located adjacent to the Motor Pool building. The 1940 site map identifies the motor pool building as once utilized as an Ordnance Repair Shop. Archive pictures of the engineering field office indicate it was a two-story high wooden building with double doors. Work related to ordnance repair may have also occurred in the engineering field office located adjacent to the Motor Pool building.

Phase I Field Operations: One soil boring was advanced downgradient of the former engineering field office, on the south side of the building within the drainage area adjacent to the building foundation, to 14 ft bgs. Two soil samples were collected from the boring, one surface soil sample (0 to 1 ft bgs) and one subsurface soil sample just above perched groundwater-soil

interface (7 to 8 ft bgs), for laboratory analysis of energetics. One grab groundwater sample was also collected from a temporary well for analysis of energetics. The Phase I sampling location for the Engineering Field Office is shown on **Figure 4-18**.

Deviations from the RI WP: None.

4.23 Former Building 34

During the May 2016 Phase I RI activities, the USACE and AECOM-Tidewater JV team discovered a building foundation, old furnace, and building debris in the H-16 area east of the Motor Pool Building at former Building 34. USACE requested that AECOM review locations of proposed borings and surface and near-surface soil samples at nearby H-5 and H-16 in relation to this debris and shift sample locations to cover this debris area. This area was identified as a new AOC, former Building 34.

Phase I Field Operations: One Geoprobe® boring (034-SB01) was advanced to 10 ft bgs on the north side of former Building 34. Water was encountered at 2 ft bgs. The soil core was screened with a PID; no readings over 0.0 ppm were observed. Two soil samples were collected from the boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from 1 to 2 ft bgs, just above the soil-water interface. Soil samples were submitted for laboratory analysis of PAHs, PCBs, and metals. A temporary well was placed in the boring and a groundwater sample was collected for laboratory analysis of PAHs, PCBs, and metals.

Additionally, four co-located surface soil and near-surface soil samples (locations 034-SS02 through -SS05) were collected downgradient of the debris toward the embankment of revetments southeast of former Building 34. The revetments are narrow, wooden stream channelization structures found in stream beds throughout Camp Hero State Park, which appear to have been installed to control surface water flow across the facility. Surface soil and near-surface soil samples were submitted for laboratory analysis of PAHs, PCBs, and metals. Phase I sample locations at former Building 34 are shown in **Figure 4-19**.

Deviations from the RI WP: This is a new AOC that was not included in the WP.

4.24 Drum Location (H-1)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-1. One drum was present with no labeling or identification. No liquid was present in the drum. Two co-located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were

collected from underneath the drum for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-1 are shown on **Figure 4-20**.

Deviations from the RI WP: None.

4.25 Drum Location (H-2)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-2. One drum was present with no labeling or identification. Liquid was not present in the drum. Two co-located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were collected from underneath the drum for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-2 are shown on **Figure 4-21**.

Deviations from the RI WP: None.

4.26 Drum Location (H-3)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-3. One drum was present with no labeling or identification. Liquid was not present in the drum. Two co-located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were collected from underneath the drum for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-3 are shown on **Figure 4-22**.

Deviations from the RI WP: None.

4.27 Construction Debris Area (H-4)

The Cashin Report noted areas H-4 and H-6 contained construction debris.

Phase I Field Activities: A walk-over survey was conducted to identify the amount and location of construction debris at H-4.

Three Geoprobe® borings (H4-SB01 through -SB03) were advanced to 10 ft bgs (just past the depth of the perched aquifer) under the debris or on the downgradient edge of the debris. The soil cores were screened with a PID; no readings above 0.0 ppm were observed. Two soil samples were obtained from each boring: one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample just above the perched groundwater-soil interface.

Temporary wells were installed in each boring. One grab groundwater sample was collected from each boring. Soil and groundwater samples were analyzed for lead from lead-based paint and PCBs. Phase I sampling locations at H-4 are shown on **Figure 4-23**.

Deviations from the RI WP: None.

4.28 Drum Location with Construction Debris (H-5)

Five drums and construction debris were noted at area H-5 in the Cashin Report, located in a topographic swale southeast of the Motor Pool Building (Cashin 1998). Three of the drums were identified as contents unknown. However, there was no evidence of these drums present during a Site Walk Over in this area conducted on November 3, 2015 during the RI/FS Project kick-off meeting. Tom Dess (NYS Camp Hero Superintendent) indicated the parks had removed the debris and a motorcycle frame from the area previously.

Phase I Field Operations: Four surface soil samples (0 to 1 ft bgs) and four co-located near-surface soil samples (1 to 2 ft bgs) were collected in the vicinity of the former drums and construction debris. The two soil sample locations near the former drums (H5-SS01 and -SS02) were sampled for VOCs, SVOCs, PCBs, and metals. The two soil samples at the construction debris area (H5-SS03 and -SS04) were analyzed for lead from lead-based paint and PCBs. Phase I sampling locations for H-5 are shown on **Figure 4-24**.

Deviations from the RI WP: Eight surface soil and eight near-surface soil samples were proposed for H-5 in the RI WP. During the May 2016 site walk, USACE and AECOM-Tidewater JV agreed that four sample locations instead of eight were sufficient.

4.29 Construction Debris Area (H-6)

The Cashin Report noted areas H-4 and H-6 contained construction debris.

Phase I Field Activities: A walk-over survey was conducted to identify the amount and location of construction debris at H-6.

Three Geoprobe® borings (H6-SB01 through -SB03) were advanced to 8 ft bgs (just past the depth of the perched aquifer) under the debris or on the downgradient edge of the debris. The soil cores were screened with a PID; no readings above 0.0 ppm were observed. Two soil samples were obtained from each boring, one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample just above the perched groundwater-soil interface.

Temporary wells were installed in each boring. One grab groundwater sample was collected from each boring. Soil and groundwater samples were analyzed for lead from lead-based paint and PCBs. Phase I sampling locations at H-6 are shown on **Figure 4-25**.

Deviations from the RI WP: None.

4.30 Possible Boilers (H-7 and H-8)

The Cashin Report noted three locations at Camp Hero which contained what appeared to be old boilers (1998): H-7, H-8, and H-9. The RI WP proposed a visual survey to determine whether boilers still exist. If the boilers were present, one surface soil sample (0–1 ft bgs) was to be collected. If stained soils were noted or if field screening of the surface soil samples with the PID (in the plastic, re-sealable bag) indicated the presence of petroleum during the survey, one Geoprobe® boring was to be advanced for the collection of two subsurface soil samples and one grab groundwater sample.

Phase I Field Operations: An extensive visual and magnetometer survey was conducted by the project team; however, the team was unable to locate debris noted by previous Cashin Report at AOC H-7 and H-8 after multiple attempts. As such, sampling activities were not completed at these AOCs.

Deviations from the RI WP: None.

4.31 Possible Boiler (H-9)

The third boiler noted in the Cashin Report, H-9, was confirmed present during visual survey during the initial project site walk (Cashin, 1998).

Phase I Field Operations: A visual survey was conducted and confirmed that the boiler at location H-9 still existed in June 2016. One surface soil sample (H9-SS01) was collected from 0 to 1 ft bgs for laboratory analysis of PAHs and metals. Field screening of the surface soil sample with the PID (in the plastic, re-sealable bag) was conducted; no readings above 0.0 ppm were observed. Because stained soils were not observed and field screening did not indicate elevated PID readings, borings were not completed in accordance with the RI WP. The Phase I sampling location at H-9 is shown on **Figure 4-26**.

Deviations from the RI WP: None.

4.32 Former Power Plant (H-11)

The Cashin Report recommended investigation potential petroleum, metals, and PCBs in soil and groundwater associated with the former power plant. In an August 2000 environmental assessment, five groundwater, two surficial soil, two subsurface soil, and two sediment samples were collected and analyzed for PCBs, SVOCs, and metals (Weston 2000).

At that time, the former Power Plant location contained three to five feet of fill material, consisting mostly of charcoal. PCBs were not detected in soils or groundwater from the area. Beryllium was

detected above the regulatory criteria in one subsurface soil (SS-1) and chromium and lead were detected at concentrations that slightly exceeded screening criteria in one of five groundwater sample locations (GW-2). The levels of chromium and lead were somewhat elevated in relation to the reference well located up-gradient of the former Power Plant location. Results from surface water and sediment samples indicated no evidence of contaminant transport pathways from the buildings to adjacent sensitive environmental areas, such as forested wetlands and streams (Weston 2000).

Additional investigation of the power plant was included in the Phase I investigation to confirm the Weston results (Weston 2000).

Phase I Field Operations: Two Geoprobe® borings (H11-SB01 and -SB02) were advanced to 10 ft bgs (just past the depth of water) within the footprint of the former Power Plant Building. The soil cores were screened with a PID; there were not any readings detected at location H11-SB01, but elevated PID readings (21.7 ppm maximum) were observed 3 to 5 ft bgs at location H11-SB02. Two soil samples were obtained from each boring, one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample from 3 to 4 ft bgs, just above the perched groundwater-soil interface or in the interval with elevated PID readings.

A temporary well was installed in each boring and a grab groundwater samples were collected. Soil and groundwater samples were submitted for laboratory analysis of PAHs, PCBs, and metals. Phase I sampling locations for the former power plant are shown on **Figure 4-27**.

Note that two Geoprobe® borings were also conducted in the tile drain field associated with the former Power Plant Building as part of the site-wide abandoned sanitary sewer investigation and are discussed under that AOC. Those results will be incorporated into approach for this AOC.

Deviations from the RI WP: None.

4.33 Sewage Ejector Station (H-12)

The sewage ejector station, located near the former heating plant, was noted in the Cashin Report as a potential concern due to waste handling.

Phase I Field Operations: One Geoprobe® boring (H12-SB01) was advanced to 10 ft bgs within the footprint of the former ejector station. The soil core was screened with a PID and there were not any readings above 0.1 ppm recorded. Two soil samples were collected: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample from 4 to 5 ft bgs, just above the soil-water interface. A temporary well was placed in the boring and a grab groundwater sample was collected. Soil and groundwater samples were submitted for laboratory analysis of VOCs, SVOCs,

PCBs, and metals. Phase I sampling locations for the Sewage Ejector Station are shown on **Figure 4-28**.

Deviations from the RI WP: None.

4.34 Former Coal Storage (H-14)

Two former coal storage areas were identified in the Cashin Report and on archive drawings obtained during the 2016 historical records search (H-14 and H-15).

Phase I Field Operations: Three Geoprobe® borings (H14-SB01 through -SB03) were advanced within the suspected area of the H-14 coal storage area. The soil cores were screened with a PID and there were not any readings above 0.0 ppm recorded. Two soil samples were obtained from each boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample just above the soil-water interface or at the depth of the boring, if not water was encountered.

Temporary wells were placed in all three boring locations; grab groundwater samples were collected from H14-SB01 and -SB03. H14-SB02 was dry upon gauging and a groundwater sample could not be collected. Soil and groundwater samples were submitted for laboratory analysis of PAHs and metals. Phase I sampling locations for H-14 are shown on **Figure 4-29**.

Deviations from the RI WP: None.

4.35 Former Coal Storage (H-15)

Two former coal storage areas were identified in the Cashin Report and on archive drawings obtained during the 2016 historical records search (H-14 and H-15).

Phase I Field Operations: Three Geoprobe® borings (H15-SB01 through -SB03) were advanced within the suspected area of the H-15 coal storage area. The soil cores were screened with a PID and there were not any readings above 0.0 ppm recorded. Groundwater was not encountered in the borings. Two soil samples were obtained from each boring: one surface soil sample from 0 to 1 ft bgs and one subsurface soil sample just above where moisture was encountered or at the depth of the boring. Soil samples were submitted for laboratory analysis of PAHs and metals. Phase I sampling locations for H-15 are shown on **Figure 4-30**.

Deviations from the RI WP: Temporary wells were placed in all three boring locations; however, all three wells were dry upon gauging and groundwater samples could not be collected despite multiple attempts.

4.36 Former Sewage Treatment Area (H-16)

The Cashin Report reported a sewage treatment area just east of the Motor Pool. Historic site drawings indicated a proposed sewage treatment plant in this area; however, the available documentation was incomplete and the RI WP recommended additional investigation.

Phase I Field Operations: A walk-over survey was conducted to attempt to identify the status and size of former sewage treatment area at this location; however, no indicators were present other than some mounding. One Geoprobe® boring was advanced to the perched groundwater table in the former sewage treatment area. The soil core was screened with a PID and there were not any readings above 0.0 ppm that were recorded. Two soil samples were obtained the boring: one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample from 4 to 5 ft bgs, just above the groundwater-soil interface.

A temporary well was placed in the boring and a grab groundwater sample was collected. Soil and groundwater samples were submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals. The Phase I sampling location for H-16 is shown on **Figure 4-31**. Additionally, one boring location associated with the abandoned site-wide waste disposal system (WDS-SB11) was located within the H-16 area.

Deviations from the RI WP: Two borings were planned for H-16 in the RI WP; however, because one boring associated with the abandoned site-wide waste disposal system (WDS-SB11) was located within the H-16 area, one of the two H-16 borings was reallocated to former Building 34, a new AOC established during the Phase I field activities (see Section 4.23 for more details).

4.37 Open Pits (H-17)

The Cashin Report noted two open pit locations which may have been dumping areas (H-17 and H-21). Geospatial analysis of these areas by the USACE AGC were inconclusive (USACE 2016). Based on visual inspection of the areas, there have been ground disturbances; therefore, the goal of the Phase I investigation was to confirm or deny suspected waste related to DoD utilization of this area.

Phase I Field Operations: Three Geoprobe® borings (H17-SB01 through -SB03) were advanced in the vicinity of the ground disturbances at H-17, two topographically downgradient and one upgradient of the disturbance. During the initial attempt on each boring, groundwater was not encountered and the sandy lithology caused boreholes to collapse around 20 ft bgs. The team returned at a later date with steel casing and advanced borings to 35 ft bgs (greater than the 25 ft bgs established in the RI WP), in attempt to reach groundwater. Two soil samples were obtained from each boring: one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample from 4 to 5 ft bgs. Groundwater was encountered in two of the three borings; temporary wells were installed in those two borings (H17-SB02 and -SB03) and grab groundwater samples

were collected. Soil and groundwater samples were submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-17 are shown on **Figure 4-32**.

Deviations from the RI WP: As detailed above, one of the three planned groundwater samples was not obtained.

4.38 Drum Location (H-18)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-18. Minimal drum remnants were present with no labeling or identification; liquid was not present in the drum remnants. Two co-located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were collected in the vicinity of the drum remnants for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-18 are shown on **Figure 4-33**.

Deviations from the RI WP: None.

4.39 AST 550-Gallon (H-19)

The Cashin Report noted one discarded 550-gallon above ground storage tank was located in the area of Camp Hero between Hill 72 and 83, in the northern section of the site (see **Figure 1-2**).

Phase I Field Operations: A walk-over survey was conducted and confirmed that the 550-gallon AST still exists at Camp Hero. Liquid was not present in the tank. Two surface soil samples (H19-SS01 and -SS02) were collected from 0 to 1 ft bgs adjacent to the tank for analysis of VOCs, PAHs, and metals. The soils were screened with a PID and there were not any readings above 0.0 ppm that were recorded. Because there were not any elevated PID readings or petroleum-stained soils observed, Geoprobe® borings were not conducted. Phase I sampling locations at H-19 are shown on **Figure 4-34**.

Deviations from the RI WP: None.

4.40 Drum Location (H-20)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-20. One drum was present, with no labeling or identification, located inside the wooden revetment (as described above in Section 4.23). Liquid was not present in the drum. Two co-

located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were collected from underneath the drum within the revetment for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-20 are shown on **Figure 4-35**. Photographs of the sampling at H-20 are located in the Photograph Log (H-20).

Deviations from the RI WP: None.

4.41 Open Pits (H-21)

The Cashin Report noted two open pit locations which may have been dumping areas (H-17 and H-21). Geospatial analysis of these areas by the USACE AGC were inconclusive (USACE 2016). Based on visual inspection of the areas, there have been ground disturbances; therefore, the goal of the Phase I investigation was to confirm or deny suspected waste related to DoD utilization of this area.

Phase I Field Operations: Three Geoprobe® borings (H21-SB01 through -SB03) were advanced to 15 ft bgs in the vicinity of the ground disturbances. Two soil samples were obtained from each boring: one surface soil sample from 0 to 1 ft bgs interval and one subsurface soil sample at varying depths. Temporary wells were installed in the borings and grab groundwater samples were collected. Soil and groundwater samples were submitted for laboratory analysis of VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-21 are shown on **Figure 4-36**.

Deviations from the RI WP: None.

4.42 Drum Location (H-22)

During the Camp Hero FS (Cashin 1998), six locations were observed with one or two 55-gallon drums or drum remnants (H-1, H-2, H-3, H-18, H-20, and H-22).

Phase I Field Operations: A site survey was conducted to verify the number of drums present at H-22. One drum was present with no labeling or identification. Liquid was not present in the drum. Two co-located surface soil (0 to 1 ft bgs) and near-surface soil samples (1 to 2 ft bgs) were collected from underneath the drum for analysis of the SW-846 list of analytes for VOCs, SVOCs, PCBs, and metals. Phase I sampling locations for H-22 are shown on **Figure 4-37**.

Deviations from the RI WP: None.

4.43 AGC Sites 1, 2, and 4

As part of this investigation, the Hydrologic and Environmental Analysis Branch of the Warfighter Support Directorate of the USACE ACG was tasked to search, collect, and review historical aerial photography from 1940 to 1982 searching for features associated with dumps within the former Camp Hero boundary. Their report concluded that there was no photographic evidence of debris accumulation suggestive of a dump in the years collected within the timeframe of this project.

However, four areas were identified where dumping could have taken place, described as access points to cleared areas near or along the bluff (USACE 2016). The four areas were designated "AGC Sites 1, 2, 3, and 4" for this RI. AGC Site 3 corresponds to the "Camp Hero State Park Bluffs" AOC, which was already established as a part of this investigation (see below).

Phase I Field Operations: To investigate potential buried debris, a visual inspection and screening-level geophysical survey using a metal detector were conducted during Phase I field activities. Visual and magnetometer results did not identify any subsurface anomalies indicative of waste dumping. As such, borings were not advanced at this AOC.

Deviations from the RI WP: None.

4.44 Camp Hero State Park Bluffs/AGC Site 3

A boiler or small tank and metal debris was observed at the bottom of the steep slope along the southern bluffs of Camp Hero during the Site Walk conducted in October 2015. Additionally, the USACE AGC identified this location as an area where dumping could have taken place. Based on a previous walk-over survey, it was concluded that the miscellaneous metal debris was inert and did not previously contain liquid contents.

Phase I Field Operations: The boiler was removed from the bluffs and disposed of as solid waste.

Deviations from the RI WP: None.

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Appendix A

Figures

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Appendix B

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Coordination with Stakeholders

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Appendix F

Community Air Monitoring Data

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Appendix G

Laboratory Analytical Reports and Validation

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Appendix G1

Laboratory Analytical Sample Reports

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Laboratory Investigation-Derived Waste Analytical Report

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Data Validation Reports

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Appendix H

Daily Field Reports

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Appendix I

Photograph Log

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Table 2-2. Samples with Qualifications due to Cooler Delivery, Hold Time, Temperature and/or PAH SIM Dilution Concerns

Work order	Sample #	Sample ID	Analysis	Method No	Dilution/Re-analysis	Analyte	Analytical Run #	Analysis date	Notes
1606387	004B	WDS-SB24-GW	SW_8270A-LL	8270D-MOD	Re-extract, Re-analysis	All analytes	87381	6/30/2016 17:00	Sample was re-extracted and reanalyzed due to poor surrogate recoveries in the original analysis. Prep Method hold time was exceeded by 10.724 days for re-extraction. Both original analysis and re-analysis are reported as requested.
1606389	014A	BG01-SS05-01	SW_8270S-SIM	8270D SIM	D3 - 50x	Benz(a)anthracene Benzo(b)fluoranthene Chrysene Fluoranthene Phenanthrene Pyrene	87679	7/27/2016 @ 11:35	
1606422	008B	WDS-SB21-GW	SW_8270A-LL	8270D-MOD	Re-extract, Re-analysis	All analytes	87381	6/30/2016 @ 17:26	Samples re-extracted and analyzed due to surrogate failures in initial run. Samples were prepped past the recommended hold time by 7.88 days. Both Re-analysis and original analysis were reported.
1606506	003A	034-SS02-01	SW_8270S-SIM	8270D SIM	D1 - 20x	Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene Phenanthrene Pyrene	87818	8/2/2016 @ 14:53	
	003A	034-SS02-01	SW_8270S-SIM	8270D SIM	D2 - 200x	Fluoranthene	87818	8/2/2016 @ 16:44	
1606506	004A	034-SS02-02	SW_8270S-SIM	8270D SIM	D1 - 3x	Benzo(b)fluoranthene Fluoranthene Pyrene	87818	8/2/2016 @ 15:21	
1606512	012A	WDS-SB08-05	SW_8270S-SIM	8270D SIM	D1 - 3x	Benzo(a)anthracene Benzo(b)fluoranthene Chrysene Fluoranthene Pyrene	87836	8/4/2016 @ 14:43	
1606529	005B	AST35-SB04-GW	SW_8270A-LL	8270D-MOD	Re-extract, Re-analysis	All analytes	87381	6/30/2016 @ 18:46	Re-Prep Method hold time was exceeded by 5.859 day(s).
1606631	003B	WDS-SB01-GW	SW_8270A-SIM		D2 - 50x	1-Methylnaphthalene 2-Methylnaphthalene Acenaphthylene Fluorene Phenanthrene	87836	8/4/2016 @ 18:29	
1606631	003B	WDS-SB01-GW	SW_8270A-SIM		D3 - 200x	Naphthalene	87854	8/5/2016 @ 14:52	
1606631	016 - all	H14-SB01-GW	CANCELED						Cooler # 061 - Received outside temp
1606631	017 - all	H14-SB03-GW	CANCELED						Cooler # 061 - Received outside temp
1606631	018 - all	MP-SB03-GW	CANCELED						Cooler # 061 - Received outside temp
1606631	019 - all	TB-GW-061716-02	CANCELED						Cooler # 061 - Received outside temp
1606675	014A	H16-SB01-GW	SW_8260A	8260C	5x	All analytes	87322	7/12/2016 @ 19:02	Inject issues due to large amount of solid materials in the water vials.
1606936	001A	H17-SB02-GW	SW_8260A	8260C					Cooler received outside temp, due to FedEx
	001B		SW_8270A-SIM	8270D SIM	3x	All analytes	87853	7/25/2016 @ 17:14	Prep outside method recommended hold time - FEDEX, Received outside temp
	001B		SW_8270A-LL	8270D-MOD	1x	All analytes	87828	8/3/2016 @ 16:02	Prep outside method recommended hold time - FEDEX, Received outside temp
	001C		SW_8082A	8082A					Cooler received outside temp, due to FedEx
	001D		SW_6020A	6020A					Cooler received outside temp, due to FedEx
	001D		SW_6020A-SA	6020A-SA					Cooler received outside temp, due to FedEx
1606936	002A	TB-GW-062116-03	SW_8260A	8260C					Cooler received outside temp, due to FedEx
1608142	001A	H11-SB02-06	SW_8270S-LL	8270D	Re-analysis	All PNAs	87828	8/3/2016 16:51	Originally 1606286-005A

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Table 3-1. Summary of Phase I Investigation Activities and Analytical Samples

AOC ID	AOC Name	Reason for Concern	Geoprobe Borings	Boring/ Sample Depth	Sample Quantities SB	SS	GW	CC	WP	LC	Analyses	Additional Investigation Activities and Other Notes
B113	Battery 113	Oil Staining						1	1		CC, WP: PCBs	
		Tanks, Drums, Pits								2	LC01: Fuel Characterization, LC02: TCLP VOC, SVOC, PCBs, metals	
203	Former Building 203	Possible solvent and residual petroleum	5	*A	9		5				Soil and GW: VOC, SVOC, PCBs, Metals	3 Piezometers Installed
2010	Building 2010 (UST 30)	Pb in Background	2	*B	8		1				Soil and GW: Lead	GW not encountered in 1 of 2 borings
F100C	Building F100C (UST 34)	Pb in Background	2	*B	8		2				Soil and GW: Lead	
AST35	AST 35/H-13	Tank #35, 200,000 gallon tank associated with reported spill	4	*A	5	2	4				Soil: STARS for fuel oil VOCs and SVOCs | GW: VOCs, SVOCs	
FPH	Fuel Pump House and Distribution Line for AST-35	Fuel Line	4	*A	4	3	4				Soil: STARS for fuel oil VOCs and SVOCs | GW: VOCs, SVOCs	Geophysical Survey Conducted
STA	Building 20 (Tank A)	Suspected former tank location									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted
STB	Building 22 (Tank B)	Suspected former tank location 1	4	*C	4	3	2				Soil: STARS for fuel oil VOCs and SVOCs | GW: VOCs, SVOCs	Geophysical Survey Conducted, Test Holes
STH	Building 109 (Tank H)	PossibleTank Identified during Geophysics									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted, Test Holes
STC	Building 2 (Tank C)	Suspected former tank location									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted, Test Holes
STD	Building 104R (Tank D)	Suspected former tank location									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted
STE	Building 3001 (Tank E)	Suspected former tank location									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted
STF	Pump House (Tank F)	Suspected former tank location									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted
STG	Pump House (Tank G)	Suspected former tank location									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted
112	Battery 112 (UST 36, 37)	Oil Staining										No Access Available
107	Building 107	Electrical						1	1	1	WP, CC, LC: PCBs	
201	Building 201	Cesspool	1	*A	2		0				Soil and GW: VOC, SVOC, PCBs, metals	GW not encountered in boring
		Electrial										No Access Available
WDS	Abandoned Waste Disposal Systems (Site-wide)	Hazardous Material Disposal	25	*D	24	3	22				Soil and GW: VOC, SVOC, PCBs, metals	GW not encountered in all borings
MP	Motor Pool	Hydraulic Lift	1	*E	1		1				Soil: STARS for fuel oil VOCs and SVOCs | GW: VOCs, SVOCs	
		Ordinance Repair	1	*I	1	1	1				Soil: STARS for fuel oil VOCs and SVOCs, Energetics | GW: VOCs, SVOCs, Energetics	
		Cess Pool	1	*I	1	1	1				Soil: STARS for fuel oil VOCs and SVOCs, PCBs, Energetics | GW: VOCs, SVOCs, PCBs, Energetics	
		Existing well (untreated tap)					1				GW: VOCs, SVOCs, PCBs, Energetics, Metals	
EFO	Engineering Field Office	Ordinance Repair	1	*I	1	1	1				Soil: Energetics | GW: Energetics	
034	Former Building 34	Former Building, Construction Debris	1	*A	1	1	1				Soil and GW: PAHs, PCBs, and Metals	
		Drainage Ditch		*F	4	4					Soil: PAHs, PCBs, and Metals	
H1	H-1	Drums		*F	2	2					Soil and LC: VOC, SVOC, PCBs, metals	
H2	H-2	Drums		*F	2	2					Soil and LC: VOC, SVOC, PCBs, metals	
H3	H-3	Drums		*F	2	2					Soil and LC: VOC, SVOC, PCBs, metals	
H4	H-4	Construction Debris	3	*I	2	3	3				Soil and GW: lead, PCBs	
H5	H-5	Drums		*F	2	2					Soil and LC: VOC, SVOC, PCBs, metals	
		Construction Debris		*F	2	2					Soil: Lead and PCBs	
H6	H-6	Construction Debris	3	*I		3	3				Soil and GW: lead, PCBs	
H7	H-7	Boilers										AOC could not be located
H8	H-8	Boilers										AOC could not be located
H9	H-9	Boilers		*G		1					Soil and GW: PAHs and Metals	
H11	H-11	Former Power Plant	2	*I	2	2	2				Soil and GW: PAHs, Metals, PCBs	
H12	H-12	Sewage Ejector Station	1	*I	1	1	1				Soil and GW: VOCs, SVOCs, PCBs, metals	
H14	H-14	Coal Storage Area	3	*I	3	3	2				Soil and GW: PAHs and Metals	GW not encountered in all borings
H15	H-15	Coal Storage Area	3	*I	3	3	0				Soil and GW: PAHs and Metals	GW not encountered in any borings
H16	H-16	Sewage Treatment Area	1	*I	1	1	1				Soil and GW: VOCs, SVOCs, PCBs, metals	
H17	H-17	Open Pits	3	*H	3	3	2				Soil and GW: VOC, SVOC, PCBs, metals	GW not encountered in all borings
H18	H-18	Drums		*F	2	2					Soil and LC: VOC, SVOC, PCBs, metals	
H19	H-19	550 gal Storage Tank		*G		1					Soil, GW, and LC: VOC, PAHs, Metals	
H20	H-20	Drums		*F	2	2					Soil and LC: VOC, SVOC, PCBs, metals	
H21	H-21	Open Pits	3	*I	3	3	3				Soil and GW: VOC, SVOC, PCBs, metals	
H22	H-22	Drums		*F	2	2					Soil, GW, and LC: VOC, SVOC, PCBs, metals	
216	Battery 216	Possible Debris									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted
P113	Plotting Room 113	Possible Debris	3	*C	3	2	3				Soil: STARS for fuel oil and gasoline VOC, SVOC, Lead | GW: VOC, SVOC, Lead	Geophysical Survey Conducted
AGC3	Camp Hero State Park Bluffs	Debris									*Geophyiscal survey indicated no samples necessary*	Geophysics via Metal Detector, Removed Debris (old boiler) from Bluff
AGC1	AGC Site 1	Debris									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted
AGC2	AGC Site 2	Debris									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted
AGC4	AGC Site 4	Debris									*Geophyiscal survey indicated no samples necessary*	Geophysical Survey Conducted
BG	Background Samples		16	*J	32	30					Soil: Metals and PAHs	

Notes

AOC	Area of Concern
AST	Aboveground Storage Tank
ID	Identification
N/A	Not Applicable
PCB	Polychlorinated Biphenyls
STARS	[NYSDEC] Spills, Technology, and Remediation Services
SVOC	Semi-Volatile Organic Compound
UST	Underground Storage Tank
VOC	Volatile Organic Compound

Media Type Codes

GW	Groundwater Sample
SB	Subsurface Soil Sample
SS	Surface Soil
WP	Wipe Sample
CC	Concrete Chip Sample
LC	Liquid Characterization Sample

Boring/Sample Depth Classifications

A	Boring to perched aquifer or max 25 ft bgs. Two SB per boring – one from upper portion at staining/elevated PID, one at depth
B	Boring to depth of former UST (7 ft bgs) or the perched water table. Up to 4 SB per boring: first 0 - 4 ft bgs (homogenize), then additional sample every 1 ft interval from 4 ft bgs to depth (4 - 5, 5 - 6, 6 - 7 ft bgs)
C	Boring to perched aquifer. Two SB per boring – one from the upper portion and one at the depth of the suspected UST
D	Boring to specific depth - see Table 2-2 of the SAP. One SB per boring at depth
E	Boring to depth of former lift, approx. 8 - 10 ft bgs (at the interface of the fill and native soil). Two SB per boring – one from upper portion, one at depth
F	One SS sample (0 - 1 ft bgs) and one near-surface soil sample (1 - 2 ft bgs) at 2 locations
G	One SS sample (0 - 1 ft bgs). Per RI WP, one geoprobe may have been needed, but was not necessary based on site survey.
H	Boring to 35 ft bgs in attempt to reach groundwater. One SS and one SB per boring.
I	Boring to perched aquifer. Two samples per boring – one SS from 0 - 1 ft bgs, one SB at depth. Third sample would have been collected if staining/elevated PID readings were noted.
J	Borings to 10 ft bgs or perched aquifer (whichever encountered first). Two SB per boring: 4-5 ft bgs, 9-10 ft bgs or1-2 ft above GW, if GW is above 10 ft bgs One SS from 0 - 1 ft from each boring.

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Appendix C

Coordination with Stakeholders

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DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, N.Y. 10278-0090
March 29, 2016

REPLY TO
ATTENTION OF

Programs and Project Management Division

Ms. Ruth L. Pierpont, Director
New York State Office of Parks, Recreation, and Historic Preservation/
State Historic Preservation Office
Peebles Island State Park
P.O. Box 189
Waterford, New York 12188-0189

RE: Former Camp Hero, Formerly Used Defense Site (FUDS) Property # C02NY0024, Montauk, New York

Dear Ms. Pierpont:

We are planning to conduct a remedial investigation (RI) at the former Camp Hero, now known as Camp Hero State Park, which is about 5 miles east of the village of Montauk (see enclosed site map). Please note that this initial field sampling is the first phase of a two-phase study, both of which will be coordinated with your office. We expect that Phase 1 of the investigation at Camp Hero State Park will have no effect upon significant historic properties in accordance with Section 106 of the National Historic Preservation Act (NHPA) and implementing regulations at 36 CFR 800. We would appreciate your concurrence with this determination.

The former Camp Hero, consisting of 469 acres, was established in early 1942 as a coastal defense installation with three batteries (Battery 112, 113, and 216) and supporting facilities that included barracks, mess halls, hospital facilities, a motor repair shop, a recreation facility, sentry boxes, and water supply and sewage facilities. In 1952, the Air Force acquired a portion of Camp Hero that became known as the Montauk Air Force Station. Camp Hero site lands were transferred to State, local and Federal agencies between 1974 and 1984 and the Air Force station was closed in 1982. Currently, Camp Hero State Park (415.35 acres) is owned by the NY State Office of Parks, Recreation, and Historic Preservation.

The purpose of our two-phased investigation is to assess if former Department of Defense (DoD) activities at Camp Hero may have resulted in adverse environmental conditions. The purpose of Phase 1 is to determine the presence or absence of contamination at various areas of Camp Hero, while Phase 2 is to determine the nature and extent of contamination and whether unacceptable risks to human and ecological

health are present. This correspondence pertains to Phase 1 activities only; Phase 2 activities will be coordinated with your office at a later date.

Forty-four areas, identified in Table 6-1 (Enclosure 1) will be investigated; the investigation will consist primarily of soil and groundwater borings; sampling of liquid (from storage tanks identified); concrete chip sampling; as well as geophysical surveys for the locating underground tanks. In some cases, wipe samples will be tested for polychlorinated biphenyls (PCBs), and site/visual surveys will be conducted to locate boilers, drums, debris, and pits. Additionally, four areas have been selected along the bluffs (see attached figure) for visual inspection and use of a hand-held magnetometer to determine if these locations have been used as landfill or dumping areas. These areas were selected based upon an examination of historic aerial photography and earlier removal actions conducted in 2000 and 2002. Anomalies will be positively identified and avoided during Phase 1.

The Camp Hero State Park study area as a whole is potentially eligible for listing on the National Register of Historic Places (NRHP). In late 1960, an advanced Specific Frequency Diversity Search Radar was built to provide surveillance data of air traffic in the area for the Montauk Air Force Station's Aircraft Control and Warning Squadron. This radar, known as the Army-Navy/Fixed Pulse Radar Surveillance-35 Radar Tower and Antenna (AN/FPS Radar Tower and Antenna) was listed on the NRHP in 2002. Additionally, there are undisturbed areas of archaeological sensitivity within the State Park in addition to significant individual historic properties according to the NY State Historic Preservation Office database.

This is a limited sampling investigation consisting of visual, geophysical, surface, subsurface and groundwater and concrete chip samples in previously disturbed contexts. Impacts to historic properties are not expected during this phase. Access to Batteries 112 and 113 and Buildings 107 and 201 will be assessed; however, no structural impacts to the integrity of these structures will be permitted. At Building 201, the AN/FPS Radar Tower and Antenna, site assessment will consist of a survey to determine access, identify any staining, three PCB wipe samples, and one boring at any adjacent cesspool. Again, we expect Phase 1 of the investigation at Camp Hero State Park will have no effect upon significant historic properties in accordance with Section 106 of the NHPA and implementing regulations at 36 CFR 800. We would appreciate your concurrence with this determination.

If you have any questions regarding this matter, please contact me at 917-790-8235 or Mr. Marc Paiva, the Project Archaeologist and Tribal Liaison at 978-318-8796.

Sincerely,

Gregory J. Goepfert
Project Manager

Enclosures

Same Letter Sent (with enclosures):

Ms. Daniel Collins, Vice Chairman, Shinnecock Tribal Nation (by email)
Mr. Thomas Dess, Superintendent, Camp Hero State Park
CC:
Mr. Paiva
Mr. Penko
Ms. Cullen
Reading File
Eng/Plng Division File

Table 6-1
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
Battery 113	Bunker-B1, Battery Dunn	Figure 6-1	Oil Staining	PCBs	Assessment for access, 3 concrete chip samples to be analyzed for PCBs.
			Tanks, Drums, Pits	Hazardous Materials	Assessment for access, site survey to identify use of tanks and waste drums, 4 liquid samples for hazardous material characterization (if applicable) from tanks and drums, water samples taken from pits (if applicable).
Former Building 203	N/A	Figure 6-2	Possible Ethylene Glycol Release	Solvent(s), including ethylene glycol	5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep). Up to 5 piezometers to determine groundwater flow.
Building 2010	Cashin #39, Water Meter	Figure 6-3	Lead in Soil	Lead	2 Geoprobe® borings, 2 groundwater samples, 4 soil samples (2 shallow and 2 deep)
Building F100C	Cashin #40, Well House	Figure 6-4	Lead in Soil	Lead	2 Geoprobe® borings, 2 groundwater samples, 4 soil samples (2 shallow and 2 deep)
AST-35	H-13	Figure 6-5	Tank #35, 200,000 gallon tank associated with reported spill	Petroleum	4 Geoprobe® borings to perched water table, 8 soil samples (4 deep and 4 shallow), 4 groundwater samples.
Distribution Line for AST-35	N/A	Figure 6-6	Distribution line connected to AST-35	Petroleum	6 Geoprobe® borings to perched water table, 12 soil samples (6 deep and 6 shallow), 6 groundwater samples.
Building 20 (Tank-A)	Cashin #14, Fire Department	Figure 6-7	Suspected former tank location	Petroleum	Verify Tank-A removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Building 22 (Tank-B)	Cashin #22, Kitchen/Office	Figure 6-8	Suspected former tank location	Petroleum	Verify tank removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Building 2 (Tank-C)	Cashin #24, Barracks	Figure 6-9	Suspected former tank location	Petroleum	Verify tank removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).

Table 6-1
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
Building 104R (Tank-D)	Cashin #33, Commissary,	Figure 6-10	Suspected former tank location	Petroleum	Verify tank removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Building 3001 (Tank-E)	Cashin #47, AT&T Building, Lilco Building, State Park Police Residence	Figure 6-11	Suspected former tank location	Petroleum	Magnetometer survey to verify UST. If UST location is confirmed: 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep). One additional groundwater sample from existing well.
Pump House (Tank F)	Near Battery 216/Bunker 4	Figure 6-12	Suspected former tank location, Hazardous Materials	Petroleum	Magnetometer survey to verify UST. If UST location is confirmed: 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Pump House (Tank G)	Near Well 4	Figure 6-13	Suspected former tank location	Petroleum	Magnetometer survey to verify UST. If UST location is confirmed: 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Battery 112	Bunker-3	Figure 6-14	Oil Staining	PCBs	Assessment for access to Battery, site survey to identify any tanks or staining, 3 concrete chip samples.
Building 107	Cashin #5, Electrical Sub-station	Figure 6-15	Electrical	PCBs	Assessment for access to basement, verify liquids in transformers, sample transformer fluids (if applicable) and sample for PCBs.
Building 201	Cashin #1, Main Radar Tower	Figure 6-16	Electrical	PCBs	Assessment for access, Site Survey to identify staining, 3 PCB wipe samples. 1 Geoprobe® boring at cesspool.
Abandoned Waste Disposal Systems (Site-wide)	N/A	Figure 6-17	Hazardous Material Disposal	Hazardous Materials	27 Geoprobe® borings, 1 soil sample (specific depths), and 1 groundwater sampleat each location (27 total soil and groundwater samples).
Motor Pool	N/A	Figure 6-18	Hydraulic lift, Cesspool, Ordinance Repair	Petroleum, Hazardous Materials, Munitions Constituents	3 Geoprobe® borings, 3 groundwater samples and 6 soil samples (3 shallow and 3 deep), one additional GW sample from existing non-potable supply well (NPSW).

Table 6-1
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
Engineering Field Office	Adjacent to Motor Pool	Figure 6-19	Ordinance Repair	Munitions Constituents	1 Geoprobe® boring, 1 groundwater sample, 2 soil samples (1 shallow and 1 deep).
H-1, H-2, H-3, H-18, H-20, H-22	Area of Possible DoD Related Disposal	Figures 6-20, 6-21, 6-22, 6-35, 6-37, 6-39	Drums	Hazardous Materials	Site survey to identify drums, 12 surface and 12 near-surface soil samples (2 surface and near-surface at each H-location). If applicable, sample liquid in drums.
H-4 and H-6	Area of Possible DoD Related Disposal	Figures 6-23, 6-25	Construction Debris	Hazardous Materials	Site survey to identify debris, 6 Geoprobe® borings, 6 groundwater samples, 12 soil samples.
H-5	Area of Possible DoD Related Disposal	Figure 6-24	Construction Debris	Hazardous Materials	8 surface and 8 near-surface soil samples under debris locations; if applicable: sample liquid in drums.
H-7, H-8, H-9	Area of Possible DoD Related Disposal	Figures 6-26, 6-27, 6-28	Boilers	Petroleum	Site Survey to identify boilers, 3 surface soil samples (1 under each). Based on site survey, 3 Geoprobe borings (1 at each) may be necessary (2 subsurface soil samples, 1 groundwater sample per boring .
H-11	Former Power Plant	Figure 6-29	Suspected Contamination	Petroleum, Metals, PCBs	2 Geoprobe® borings, 2 groundwater samples, 4 soil samples (2 shallow and 2 deep).
H-12	Sewage Ejector Station	Figure 6-30	Suspected Contamination	Hazardous Materials	1 Geoprobe® boring, 1 groundwater sample, and 2 soil samples (1 shallow and 1 deep).
H-14, H-15	Coal Storage Area	Figures 6-31, 6-32	Suspected Contamination	PAH	6 Geoprobe® borings (3 borings at each location), 6 groundwater samples and 12 soil samples (6 shallow and 6 deep).
H-16	Sewage Treatment Area	Figure 6-33	Suspected Contamination	Hazardous Materials	Site Survey, 3 Geoprobe® borings, 3 groundwater samples and 6 soil samples (3 shallow and 3 deep).
H-17, H-21	Area of Possible DoD Related Disposal	Figures 6-34, 6-38	Open Pits	Hazardous Materials	Site Survey to identify pits, 6 Geoprobe® borings (3 at each location), 6 groundwater samples and 12 soil samples (6 shallow and 6 deep).

Table 6-2
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
H-19	Area of Possible DoD Related Disposal	Figure 6-36	550 gallon Storage Tank	Hazardous Materials	Site Survey to identify tank, 2 surface soil samples, liquid characterization if applicable. Based on site survey, 2 Geoprobe borings may be necessary (2 subsurface soil samples, 1 groundwater sample per boring) .
Battery 216	N/A	Figure 6-40	Potential unknown storage or vaults	Potential release to environment.	Geophysics around building.
Plotting Room 113	N/A	Figure 6-41	Potential unknown storage or vaults	Potential release to environment	Geophysics around building.
Camp Hero State Park Bluffs	N/A	Figure 6-42	Metal Debris	Metal debris hazards	Visual Survey, remove metal debris.
Background Samples	N/A	Figure 1-2	N/A	N/A	10 Geoprobe® borings (3 borings at 2 locations), 20 soil samples (10 shallow and 10 deep)

N/A not applicable
PAH polynuclear aromatic hydrocarbon
DoD Department of Defense, United States
PCB Polychlorinated biphenyls

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, N.Y. 10278-0090
March 29, 2016

REPLY TO
ATTENTION OF

Programs and Project Management Division

David Stilwell, Field Supervisor
U.S. Fish and Wildlife Service
New York Field Office
3817 Luker Road
Cortland, New York 13045

Dear Mr. Stilwell:

We are planning to conduct a remedial investigation (RI) at the former Camp Hero, a formerly used defense site (FUDS), which is located on the eastern tip of the south fork of Long Island, New York (NY), approximately 5 miles east of the Village of Montauk. The former Camp Hero, now known as Camp Hero State Park, was established in early 1942 as a Coastal Defense Installation; the facility changed ownership within the military multiple times over the course of the following decades. Between 1974 and 1984, site lands were transferred to State, Local, and other Federal agencies, and the facility was permanently closed in 1982. Camp Hero State Park is operated by the New York State Office of Parks, Recreation and Historic Preservation.

The purpose of our two-phased investigation is to assess if former Department of Defense (DoD) activities at Camp Hero may have resulted in adverse environmental conditions. Forty-four Areas of Concern (AOCs) have been identified. These sites included former waste disposal and coal storage areas, abandoned drum locations, and former storage tanks. The AOCs are shown on Figure 1.

The RI technical approach will consist of two phases of field sampling investigation (Phase 1 and Phase 2). The primary objective of the Phase 1 investigation is to determine the presence or absence of contamination at the Camp Hero AOCs. The primary objective of the Phase 2 investigation is to determine the nature and extent of target constituents in soil, groundwater, surface water, and sediment at the Camp Hero AOCs and determine if there are unacceptable risks to human health and ecological health associated with exposure to related constituents. Proposed sampling activities at each AOC during Phase 1 are summarized in the attached table.

At most sites GeoProbe borings will be conducted to collect soils and groundwater samples. Care will be taken to minimize disturbance of vegetation to access the AOCs. Cutting of large trees (> 3" dbh) and snags will be avoided. Some sampling will occur inside abandoned buildings. Sampling activities will be suspended and the Long Island Field Office and New York Department of Environmental Conservation contacted if any bats are

encountered in the buildings. Phase I field work is expected to begin in April and be completed by June, 2016.

Please submit a letter with any concerns you have regarding the potential impacts of field sampling activities on threatened or endangered species pursuant to the Federal Endangered Species Act.

If any additional information is required please contact me at (917) 790-8235 or Mr. Michael Penko of the New England District Environmental Resources Section at (978) 318-8139.

Sincerely,

Gregory J. Goepfert
Project Manager

Enclosure

Cc:

Steve Papa, USFWS Long Island Field Office
Thomas Dess, Superintendent, Montauk State Park
Megan Cullen, New England District
M. Penko, New England District
Megan Donahue, AECOM

Table 6-1
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
Battery 113	Bunker-B1, Battery Dunn	Figure 6-1	Oil Staining	PCBs	Assessment for access, 3 concrete chip samples to be analyzed for PCBs.
			Tanks, Drums, Pits	Hazardous Materials	Assessment for access, site survey to identify use of tanks and waste drums, 4 liquid samples for hazardous material characterization (if applicable) from tanks and drums, water samples taken from pits (if applicable).
Former Building 203	N/A	Figure 6-2	Possible Ethylene Glycol Release	Solvent(s), including ethylene glycol	5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep). Up to 5 piezometers to determine groundwater flow.
Building 2010	Cashin #39, Water Meter	Figure 6-3	Lead in Soil	Lead	2 Geoprobe® borings, 2 groundwater samples, 4 soil samples (2 shallow and 2 deep)
Building F100C	Cashin #40, Well House	Figure 6-4	Lead in Soil	Lead	2 Geoprobe® borings, 2 groundwater samples, 4 soil samples (2 shallow and 2 deep)
AST-35	H-13	Figure 6-5	Tank #35, 200,000 gallon tank associated with reported spill	Petroleum	4 Geoprobe® borings to perched water table, 8 soil samples (4 deep and 4 shallow), 4 groundwater samples.
Distribution Line for AST-35	N/A	Figure 6-6	Distribution line connected to AST-35	Petroleum	6 Geoprobe® borings to perched water table, 12 soil samples (6 deep and 6 shallow), 6 groundwater samples.
Building 20 (Tank-A)	Cashin #14, Fire Department	Figure 6-7	Suspected former tank location	Petroleum	Verify Tank-A removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Building 22 (Tank-B)	Cashin #22, Kitchen/Office	Figure 6-8	Suspected former tank location	Petroleum	Verify tank removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Building 2 (Tank-C)	Cashin #24, Barracks	Figure 6-9	Suspected former tank location	Petroleum	Verify tank removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).

Table 6-1
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
Building 104R (Tank-D)	Cashin #33, Commissary,	Figure 6-10	Suspected former tank location	Petroleum	Verify tank removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Building 3001 (Tank-E)	Cashin #47, AT&T Building, Lilco Building, State Park Police Residence	Figure 6-11	Suspected former tank location	Petroleum	Magnetometer survey to verify UST. If UST location is confirmed: 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep). One additional groundwater sample from existing well.
Pump House (Tank F)	Near Battery 216/Bunker 4	Figure 6-12	Suspected former tank location, Hazardous Materials	Petroleum	Magnetometer survey to verify UST. If UST location is confirmed: 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Pump House (Tank G)	Near Well 4	Figure 6-13	Suspected former tank location	Petroleum	Magnetometer survey to verify UST. If UST location is confirmed: 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Battery 112	Bunker-3	Figure 6-14	Oil Staining	PCBs	Assessment for access to Battery, site survey to identify any tanks or staining, 3 concrete chip samples.
Building 107	Cashin #5, Electrical Sub-station	Figure 6-15	Electrical	PCBs	Assessment for access to basement, verify liquids in transformers, sample transformer fluids (if applicable) and sample for PCBs.
Building 201	Cashin #1, Main Radar Tower	Figure 6-16	Electrical	PCBs	Assessment for access, Site Survey to identify staining, 3 PCB wipe samples. 1 Geoprobe® boring at cesspool.
Abandoned Waste Disposal Systems (Site-wide)	N/A	Figure 6-17	Hazardous Material Disposal	Hazardous Materials	27 Geoprobe® borings, 1 soil sample (specific depths), and 1 groundwater sampleat each location (27 total soil and groundwater samples).
Motor Pool	N/A	Figure 6-18	Hydraulic lift, Cesspool, Ordinance Repair	Petroleum, Hazardous Materials, Munitions Constituents	3 Geoprobe® borings, 3 groundwater samples and 6 soil samples (3 shallow and 3 deep), one additional GW sample from existing non-potable supply well (NPSW).

Table 6-1
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
Engineering Field Office	Adjacent to Motor Pool	Figure 6-19	Ordinance Repair	Munitions Constituents	1 Geoprobe® boring, 1 groundwater sample, 2 soil samples (1 shallow and 1 deep).
H-1, H-2, H-3, H-18, H-20, H-22	Area of Possible DoD Related Disposal	Figures 6-20, 6-21, 6-22, 6-35, 6-37, 6-39	Drums	Hazardous Materials	Site survey to identify drums, 12 surface and 12 near-surface soil samples (2 surface and near-surface at each H-location). If applicable, sample liquid in drums.
H-4 and H-6	Area of Possible DoD Related Disposal	Figures 6-23, 6-25	Construction Debris	Hazardous Materials	Site survey to identify debris, 6 Geoprobe® borings, 6 groundwater samples, 12 soil samples.
H-5	Area of Possible DoD Related Disposal	Figure 6-24	Construction Debris	Hazardous Materials	8 surface and 8 near-surface soil samples under debris locations; if applicable: sample liquid in drums.
H-7, H-8, H-9	Area of Possible DoD Related Disposal	Figures 6-26, 6-27, 6-28	Boilers	Petroleum	Site Survey to identify boilers, 3 surface soil samples (1 under each). Based on site survey, 3 Geoprobe borings (1 at each) may be necessary (2 subsurface soil samples, 1 groundwater sample per boring .
H-11	Former Power Plant	Figure 6-29	Suspected Contamination	Petroleum, Metals, PCBs	2 Geoprobe® borings, 2 groundwater samples, 4 soil samples (2 shallow and 2 deep).
H-12	Sewage Ejector Station	Figure 6-30	Suspected Contamination	Hazardous Materials	1 Geoprobe® boring, 1 groundwater sample, and 2 soil samples (1 shallow and 1 deep).
H-14, H-15	Coal Storage Area	Figures 6-31, 6-32	Suspected Contamination	PAH	6 Geoprobe® borings (3 borings at each location), 6 groundwater samples and 12 soil samples (6 shallow and 6 deep).
H-16	Sewage Treatment Area	Figure 6-33	Suspected Contamination	Hazardous Materials	Site Survey, 3 Geoprobe® borings, 3 groundwater samples and 6 soil samples (3 shallow and 3 deep).
H-17, H-21	Area of Possible DoD Related Disposal	Figures 6-34, 6-38	Open Pits	Hazardous Materials	Site Survey to identify pits, 6 Geoprobe® borings (3 at each location), 6 groundwater samples and 12 soil samples (6 shallow and 6 deep).

Table 6-2
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
H-19	Area of Possible DoD Related Disposal	Figure 6-36	550 gallon Storage Tank	Hazardous Materials	Site Survey to identify tank, 2 surface soil samples, liquid characterization if applicable. Based on site survey, 2 Geoprobe borings may be necessary (2 subsurface soil samples, 1 groundwater sample per boring) .
Battery 216	N/A	Figure 6-40	Potential unknown storage or vaults	Potential release to environment.	Geophysics around building.
Plotting Room 113	N/A	Figure 6-41	Potential unknown storage or vaults	Potential release to environment	Geophysics around building.
Camp Hero State Park Bluffs	N/A	Figure 6-42	Metal Debris	Metal debris hazards	Visual Survey, remove metal debris.
Background Samples	N/A	Figure 1-2	N/A	N/A	10 Geoprobe® borings (3 borings at 2 locations), 20 soil samples (10 shallow and 10 deep)

N/A not applicable
PAH polynuclear aromatic hydrocarbon
DoD Department of Defense, United States
PCB Polychlorinated biphenyls

NEW YORK STATE OF OPPORTUNITY. Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO
Governor

ROSE HARVEY
Commissioner

May 3, 2016

Mr. Marcos Paiva
Archaeologist
US Army Corps of Engineers
696 Virginia Road
Concord, MA 01742

Re: USACE
Former Camp Hero Remedial Investigation, Camp Hero State Park
Camp Hero Road, Easthampton, Suffolk County
16PR02102

Dear Mr. Paiva:

Thank you for requesting the comments of the New York State Historic Preservation Office (SHPO). We have reviewed the provided documentation in accordance with Section 106 of the National Historic Preservation Act of 1966. These comments are those of the SHPO and relate only to Historic/Cultural resources. They do not include other environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the National Environmental Policy Act and/or the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8).

As noted, the radar installation on the former base has been listed in the National Register of Historic Places and we believe the remainder of the camp may be eligible for the register. However, additional research will be required before a final determination on eligibility can be made. That stated it is the opinion of the NYSHPO that the scope of work proposed in this undertaking will have *No Effect* on those resources listed in or potentially eligible for the registers.

If I can be of any further assistance I can be reached at john.bonafide@parks.ny.gov or (518) 268-2166.

Sincerely,

John A. Bonafide
Director,
Technical Preservation Services Bureau

via e-mail only

DEPARTMENT OF THE ARMY
NEW YORK DISTRICT, CORPS OF ENGINEERS
JACOB K. JAVITS FEDERAL BUILDING
NEW YORK, N.Y. 10278-0090
March 29, 2016

REPLY TO
ATTENTION OF

Programs and Project Management Division

Carrie Meek Gallagher, Regional Director
New York Department of Environmental Conservation
Region 1 Office
SUNY @ Stony Brook
50 Circle Road
Stony Brook, New York 11790-3409

Dear Ms. Gallagher:

We are planning to conduct a remedial investigation (RI) at the former Camp Hero, a formerly used defense site (FUDS), which is located on the eastern tip of the south fork of Long Island, New York (NY), approximately 5 miles east of the Village of Montauk. The former Camp Hero, now known as Camp Hero State Park, was established in early 1942 as a Coastal Defense Installation; the facility changed ownership within the military multiple times over the course of the following decades. Between 1974 and 1984, site lands were transferred to State, Local, and other Federal agencies, and the facility was permanently closed in 1982. Camp Hero State Park is operated by the New York State Office of Parks, Recreation and Historic Preservation.

The purpose of our two-phased investigation is to assess if former Department of Defense (DoD) activities at Camp Hero may have resulted in adverse environmental conditions. Forty-four Areas of Concern (AOCs) have been identified. These sites included former waste disposal and coal storage areas, abandoned drum locations, and former storage tanks. The AOCs are shown on Figure 1.

The RI technical approach will consist of two phases of field sampling investigation (Phase 1 and Phase 2). The primary objective of the Phase 1 investigation is to determine the presence or absence of contamination at the Camp Hero AOCs. The primary objective of the Phase 2 investigation is to determine the nature and extent of target constituents in soil, groundwater, surface water, and sediment at the Camp Hero AOCs and determine if there are unacceptable risks to human health and ecological health associated with exposure to related constituents. Proposed sampling activities at each AOC during Phase 1 are summarized in the attached table.

At most sites GeoProbe borings will be conducted to collect soil and groundwater samples. Care will be taken to minimize disturbance of vegetation to access the AOCs. Cutting of large trees (> 3" dbh) and snags will be avoided. We are coordinating the work with the New York Natural Heritage Program and will avoid impacts to any known rare plant populations. Impacts

to Eastern box turtle will be avoided by sweeping areas in advance of the track mounted GeoProbe for turtles. Some sampling will occur inside abandoned buildings. Sampling activities will be suspended and the Long Island Field Office and New York Department of Environmental Conservation contacted if any bats are encountered in the buildings. Phase I field work is expected to begin in April and be completed by June, 2016.

Please submit a letter with any concerns you have regarding the potential impacts of field sampling activities on listed species pursuant to the New York State Endangered Species Act.

If any additional information is required please contact me at (917) 790-8235 or Mr. Michael Penko of the New England District Environmental Resources Section at (978) 318-8139.

Sincerely,

Gregory J. Goepfert
Project Manager

Enclosure

Cc:

Steve Papa, USFWS Long Island Field Office
Julie Lundgren, NYNHP
John Swartout, NY DEC
Thomas Dess, Superintendent, Montauk State Park
Megan Cullen, New England District
M. Penko, New England District
Megan Donahue, AECOM

Table 6-1
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
Battery 113	Bunker-B1, Battery Dunn	Figure 6-1	Oil Staining	PCBs	Assessment for access, 3 concrete chip samples to be analyzed for PCBs.
			Tanks, Drums, Pits	Hazardous Materials	Assessment for access, site survey to identify use of tanks and waste drums, 4 liquid samples for hazardous material characterization (if applicable) from tanks and drums, water samples taken from pits (if applicable).
Former Building 203	N/A	Figure 6-2	Possible Ethylene Glycol Release	Solvent(s), including ethylene glycol	5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep). Up to 5 piezometers to determine groundwater flow.
Building 2010	Cashin #39, Water Meter	Figure 6-3	Lead in Soil	Lead	2 Geoprobe® borings, 2 groundwater samples, 4 soil samples (2 shallow and 2 deep)
Building F100C	Cashin #40, Well House	Figure 6-4	Lead in Soil	Lead	2 Geoprobe® borings, 2 groundwater samples, 4 soil samples (2 shallow and 2 deep)
AST-35	H-13	Figure 6-5	Tank #35, 200,000 gallon tank associated with reported spill	Petroleum	4 Geoprobe® borings to perched water table, 8 soil samples (4 deep and 4 shallow), 4 groundwater samples.
Distribution Line for AST-35	N/A	Figure 6-6	Distribution line connected to AST-35	Petroleum	6 Geoprobe® borings to perched water table, 12 soil samples (6 deep and 6 shallow), 6 groundwater samples.
Building 20 (Tank-A)	Cashin #14, Fire Department	Figure 6-7	Suspected former tank location	Petroleum	Verify Tank-A removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Building 22 (Tank-B)	Cashin #22, Kitchen/Office	Figure 6-8	Suspected former tank location	Petroleum	Verify tank removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Building 2 (Tank-C)	Cashin #24, Barracks	Figure 6-9	Suspected former tank location	Petroleum	Verify tank removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).

Table 6-1
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
Building 104R (Tank-D)	Cashin #33, Commissary,	Figure 6-10	Suspected former tank location	Petroleum	Verify tank removal via magnetometer, up to 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Building 3001 (Tank-E)	Cashin #47, AT&T Building, Lilco Building, State Park Police Residence	Figure 6-11	Suspected former tank location	Petroleum	Magnetometer survey to verify UST. If UST location is confirmed: 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep). One additional groundwater sample from existing well.
Pump House (Tank F)	Near Battery 216/Bunker 4	Figure 6-12	Suspected former tank location, Hazardous Materials	Petroleum	Magnetometer survey to verify UST. If UST location is confirmed: 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Pump House (Tank G)	Near Well 4	Figure 6-13	Suspected former tank location	Petroleum	Magnetometer survey to verify UST. If UST location is confirmed: 5 Geoprobe® borings, 5 groundwater samples, 10 soil samples (5 shallow and 5 deep).
Battery 112	Bunker-3	Figure 6-14	Oil Staining	PCBs	Assessment for access to Battery, site survey to identify any tanks or staining, 3 concrete chip samples.
Building 107	Cashin #5, Electrical Sub-station	Figure 6-15	Electrical	PCBs	Assessment for access to basement, verify liquids in transformers, sample transformer fluids (if applicable) and sample for PCBs.
Building 201	Cashin #1, Main Radar Tower	Figure 6-16	Electrical	PCBs	Assessment for access, Site Survey to identify staining, 3 PCB wipe samples. 1 Geoprobe® boring at cesspool.
Abandoned Waste Disposal Systems (Site-wide)	N/A	Figure 6-17	Hazardous Material Disposal	Hazardous Materials	27 Geoprobe® borings, 1 soil sample (specific depths), and 1 groundwater sampleat each location (27 total soil and groundwater samples).
Motor Pool	N/A	Figure 6-18	Hydraulic lift, Cesspool, Ordinance Repair	Petroleum, Hazardous Materials, Munitions Constituents	3 Geoprobe® borings, 3 groundwater samples and 6 soil samples (3 shallow and 3 deep), one additional GW sample from existing non-potable supply well (NPSW).

Table 6-1
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
Engineering Field Office	Adjacent to Motor Pool	Figure 6-19	Ordinance Repair	Munitions Constituents	1 Geoprobe® boring, 1 groundwater sample, 2 soil samples (1 shallow and 1 deep).
H-1, H-2, H-3, H-18, H-20, H-22	Area of Possible DoD Related Disposal	Figures 6-20, 6-21, 6-22, 6-35, 6-37, 6-39	Drums	Hazardous Materials	Site survey to identify drums, 12 surface and 12 near-surface soil samples (2 surface and near-surface at each H-location). If applicable, sample liquid in drums.
H-4 and H-6	Area of Possible DoD Related Disposal	Figures 6-23, 6-25	Construction Debris	Hazardous Materials	Site survey to identify debris, 6 Geoprobe® borings, 6 groundwater samples, 12 soil samples.
H-5	Area of Possible DoD Related Disposal	Figure 6-24	Construction Debris	Hazardous Materials	8 surface and 8 near-surface soil samples under debris locations; if applicable: sample liquid in drums.
H-7, H-8, H-9	Area of Possible DoD Related Disposal	Figures 6-26, 6-27, 6-28	Boilers	Petroleum	Site Survey to identify boilers, 3 surface soil samples (1 under each). Based on site survey, 3 Geoprobe borings (1 at each) may be necessary (2 subsurface soil samples, 1 groundwater sample per boring .
H-11	Former Power Plant	Figure 6-29	Suspected Contamination	Petroleum, Metals, PCBs	2 Geoprobe® borings, 2 groundwater samples, 4 soil samples (2 shallow and 2 deep).
H-12	Sewage Ejector Station	Figure 6-30	Suspected Contamination	Hazardous Materials	1 Geoprobe® boring, 1 groundwater sample, and 2 soil samples (1 shallow and 1 deep).
H-14, H-15	Coal Storage Area	Figures 6-31, 6-32	Suspected Contamination	PAH	6 Geoprobe® borings (3 borings at each location), 6 groundwater samples and 12 soil samples (6 shallow and 6 deep).
H-16	Sewage Treatment Area	Figure 6-33	Suspected Contamination	Hazardous Materials	Site Survey, 3 Geoprobe® borings, 3 groundwater samples and 6 soil samples (3 shallow and 3 deep).
H-17, H-21	Area of Possible DoD Related Disposal	Figures 6-34, 6-38	Open Pits	Hazardous Materials	Site Survey to identify pits, 6 Geoprobe® borings (3 at each location), 6 groundwater samples and 12 soil samples (6 shallow and 6 deep).

Table 6-2
Areas of Concern Summary Table

Area of Concern	Additional Site Names	Figure	Reason for Concern	Potential Impact	Phase 1
H-19	Area of Possible DoD Related Disposal	Figure 6-36	550 gallon Storage Tank	Hazardous Materials	Site Survey to identify tank, 2 surface soil samples, liquid characterization if applicable. Based on site survey, 2 Geoprobe borings may be necessary (2 subsurface soil samples, 1 groundwater sample per boring) .
Battery 216	N/A	Figure 6-40	Potential unknown storage or vaults	Potential release to environment.	Geophysics around building.
Plotting Room 113	N/A	Figure 6-41	Potential unknown storage or vaults	Potential release to environment	Geophysics around building.
Camp Hero State Park Bluffs	N/A	Figure 6-42	Metal Debris	Metal debris hazards	Visual Survey, remove metal debris.
Background Samples	N/A	Figure 1-2	N/A	N/A	10 Geoprobe® borings (3 borings at 2 locations), 20 soil samples (10 shallow and 10 deep)

N/A not applicable
PAH polynuclear aromatic hydrocarbon
DoD Department of Defense, United States
PCB Polychlorinated biphenyls

From: Jennings, Kevin A (DEC)
To: Penko, John M (Michael) NAE
Subject: [EXTERNAL] RE: Camp Hero
Date: Monday, May 09, 2016 3:01:26 PM

Mike,

We have no threatened or endangered species concerns for this project. The tree cutting limits would cover any concerns regarding northern long-eared bats if they were present and the turtle sweeps are always a good recommendation.
If they happen to find any bat guano in any of those bunkers it would be nice know about that.
Thanks

~Kevin

Kevin Jennings
Wildlife Biologist, Division of Fish and Wildlife
New York State Department of Environmental Conservation
50 Circle Rd, Stony Brook, NY 11790
P: 631-444-0307 | F: 631-444-0272 | kevin.jennings@dec.ny.gov

www.dec.ny.gov | |

-----Original Message-----
From: Penko, John M (Michael) NAE [mailto:Michael.Penko@usace.army.mil]
Sent: Monday, May 09, 2016 11:08 AM
To: Jennings, Kevin A (DEC)
Subject: Camp Hero

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Kevin:

Does the DEC have any comments on the attached letter? Field work is expected to start next week.

Thanks

Mike

Michael Penko
Ecologist
US Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01742
978-318-8139

From:	Garofolo, Nicole (PARKS)
To:	Glenn, Steven; McGuinness, Brendan; Lundgren, Julie (PARKS)
Cc:	Martin, Amanda (Arlington); Donahue, Megan; Cullen, Megan E NAE; Penko, John M (Michael) NAE; MacEwan, Mark
Subject:	[EXTERNAL] RE: Viburnum dentatum var. venosum at Camp Hero State Park
Date:	Tuesday, May 24, 2016 2:21:46 PM

I agree with Julie's analysis. As long as efforts are taken to minimize impacts to the rare species, which it appears they will be, I have no problem with this plan proceeding. Thank you for including me in the loop.

Sincerely,

Nicole Garofolo

From: Glenn, Steven [mailto:Steven.Glenn@aecom.com]
Sent: Tuesday, May 24, 2016 7:17 AM
To: McGuinness, Brendan; Lundgren, Julie (PARKS); Garofolo, Nicole (PARKS)
Cc: Martin, Amanda (Arlington); Donahue, Megan; Cullen, Megan E NAE (Megan.E.Cullen@usace.army.mil); Penko, John M (Michael) NAE; MacEwan, Mark
Subject: RE: Viburnum dentatum var. venosum at Camp Hero State Park

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Brendan, yes, sounds like you are good to go pending confirmation from Nicole from NY Parks.

Yes, the seedlings also have stellate hairs and are easy to identify. I didn't encounter any Viburnum dentatum var. lucidum (the stellate hair free variety- syn. Viburnum recognitum).

Regarding V. d. venosum distribution- it's everywhere at Camp Hero- extremely common- we even encountered several shrubs overhanging the parking lot where we meet then first day.

In a couple of locations it was so prevalent that we were hard pressed to find any route through.

Julie, sorry, but I didn't take any photos of the seedlings.

If any more assistance or questions are required regarding Camp Hero, don't hesitate to contact me.

Cheers,

Steve

Steve Glenn

Environmental Field Botanist III

631-662-8443 (cell)

732-564-3961 (office)

30 Knightsbridge Road
Piscataway, New Jersey 08854, USA

From: McGuinness, Brendan
Sent: Monday, May 23, 2016 5:43 PM
To: Glenn, Steven
Cc: Martin, Amanda (Arlington); Donahue, Megan; Cullen, Megan E NAE (Megan.E.Cullen@usace.army.mil <mailto:Megan.E.Cullen@usace.army.mil>); Penko, John M (Michael) NAE; MacEwan, Mark
Subject: FW: Viburnum dentatum var. venosum at Camp Hero State Park

Hi Steve – Good work. I have included Megan Cullen and Mike Penko and our team on this most recent email chain. It appears we may be good to go without extra measures for protection of seedlings for drilling at Camp Hero?

Brendan McGuinness

AECOM Environment

D 703.682.1564

From: Young, Steve (DEC) [mailto:steve.young@dec.ny.gov]
Sent: Monday, May 23, 2016 4:55 PM
To: Lundgren, Julie (PARKS); McGuinness, Brendan; Glenn, Steven; Garofolo, Nicole (PARKS)

Cc: Ring, Richard M (DEC); CebadaMora, Gabriella (PARKS)
Subject: RE: Viburnum dentatum var. venosum at Camp Hero State Park

Hi Julie and Steve,

I would expect that the seedlings would have the stellate hairs on the petioles like the larger shrubs but it would be nice to confirm.

Steve

From: Lundgren, Julie (PARKS)
Sent: Monday, May 23, 2016 4:51 PM
To: McGuinness, Brendan <Brendan.McGuinness@aecom.com <mailto:Brendan.McGuinness@aecom.com> >; Steven.Glenn@aecom.com <mailto:Steven.Glenn@aecom.com> ; Garofolo, Nicole (PARKS) <Nicole.Garofolo@parks.ny.gov <mailto:Nicole.Garofolo@parks.ny.gov> >
Cc: Young, Steve (DEC) <steve.young@dec.ny.gov <mailto:steve.young@dec.ny.gov> >; Ring, Richard M (DEC) <richard.ring@dec.ny.gov <mailto:richard.ring@dec.ny.gov> >; CebadaMora, Gabriella (PARKS) <Gabriella.CebadaMora@parks.ny.gov <mailto:Gabriella.CebadaMora@parks.ny.gov> >
Subject: Re: Viburnum dentatum var. venosum at Camp Hero State Park

Hi Steve

I have been kept in the loop with this project, so I can help you out. Nicole, the environmental analyst from OPRHP can send any additional thoughts or needs and confirm my recommendations.

This rare species has no federal status or regulations, and the DEC regs give OPRHP authority over the rare plants on its land; see page vi in the Rare Plant Status List
Blockedhttp://www.dec.ny.gov/docs/fish_marine_pdf/2010rareplantstatus.pdf

It is great you are taking the time to identify the rare Viburnum dentatum var. venosum (arrowwood) and avoid disturbing that plant as much as possible. I am not sure we could key out seedlings for certain either, but since the rare one is the dominant at this location, chances are these seedlings are the rare species. However, given the abundance of mature Viburnum d-v over a large area and the small scope of the disturbance you are creating (and mostly near structures as I recall), the loss of some seedlings for your project would have minimal impact on this population of Viburnum and would be acceptable. We appreciate the effort to date in taking measures to avoid impacts to the rare species and communities in the park.

If you have a chance to send me some geo-referenced photos of the Viburnum seedlings, I would be interested in having photos to add to our image database.

Julie A. Lundgren, State Parks Ecologist

NY Natural Heritage Program of SUNY College of Environmental Science and Forestry

in partnership with NYS Office of Parks, Recreation and Historic Preservation, Albany NY

julie.lundgren@parks.ny.gov <mailto:julie.lundgren@parks.ny.gov> or jalundgr@esf.edu <mailto:jalundgr@esf.edu>

From: Glenn, Steven [mailto:Steven.Glenn@aecom.com]
Sent: Tuesday, May 17, 2016 11:29 PM
To: Young, Steve (DEC)
Cc: McGuinness, Brendan
Subject: Viburnum dentatum var. venosum at Camp Hero State Park

Hi Steve, AECOM has been working with the US Army Corp of Engineers at Camp Hero State Park this week, conducting preliminary surveys on potential remediation sites. One of the target species provided by the New York Heritage Program at Camp Hero is Viburnum dentatum var. venosum (NY-S2). We have found this species quite abundant on numerous sites in Camp Hero and it appears the population is stable and thriving.

Some of the survey sites require vegetation clearance and the insertion of heavy equipment. At those sites I have been flagging specimens of V .d. var. venosum for preservation and have been consulting with the USACE to provide the best method of egress for equipment that avoids these specimens. The problem is that a few sites also have numerous seedlings of V. d. var. venosum that are almost impossible to avoid without employing extraordinary measures.

I write to you asking for guidance as to the NYDEC's tolerance for the possible destruction of a few seedlings in order to complete the surveys.

Please feel free to email or phone me at your convenience, or provide me with a contact if another NYDEC authority is required.

Cheers,

Steve

Steve Glenn

Environmental Field Botanist III

631-662-8443 (cell)

732-564-3961 (office)

30 Knightsbridge Road
Piscataway, New Jersey 08854, USA

From: Papa, Steve
To: Penko, John M (Michael) NAE
Subject: [EXTERNAL] Re: Camp Hero
Date: Monday, May 09, 2016 12:47:39 PM

---

http://www.fws.gov/Midwest/endangered/mammals/nleb/index.html

Steven T. Papa
U.S. Fish and Wildlife Service
Long Island Field office
340 Smith Rd
Shirley, NY 11967
(631) 286-0485 (tel)
631) 286-4003 (fax)
Steve_Papa@fws.gov <mailto:Steve_Papa@fws.gov>

"I only wish that besides protecting the songsters...we also protect the birds of the seashore..."
- T. Roosevelt

On Mon, May 9, 2016 at 12:46 PM, Papa, Steve <steve_papa@fws.gov <mailto:steve_papa@fws.gov> > wrote:

> John,
>
> See the attached for recommendation survey guidelines.
>
> Steven T. Papa
> U.S. Fish and Wildlife Service
> Long Island Field office
> 340 Smith Rd
> Shirley, NY 11967
> (631) 286-0485 (tel)
> 631) 286-4003 (fax)
> Steve_Papa@fws.gov <mailto:Steve_Papa@fws.gov>
>
> "I only wish that besides protecting the songsters...we also protect the birds of the seashore..."
> - T. Roosevelt

> On Mon, May 9, 2016 at 11:04 AM, Penko, John M (Michael) NAE <Michael.Penko@usace.army.mil <mailto:Michael.Penko@usace.army.mil> > wrote:
>
> > Steve,
> >
> > Does the FWS have any comments on the attached letter.
> >
> > Thanks
> >
> > Mike
> >
> > Michael Penko
> > Ecologist

US Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01742
978-318-8139

From: Penko, John M (Michael) NAE
To: "julie.lundgren@parks.ny.gov"
Cc: "McGuinness, Brendan"; Cullen, Megan E NAE; "Glenn, Steven"
Subject: FW: Viburnum dentatum var. venosum at Camp Hero State Park
Date: Tuesday, May 24, 2016 1:15:00 PM
Attachments: DSC_0289.JPG

Julie,

Photograph of a seedling is attached (not my best work...). It was taken at the coal storage area. Brendan should be able to provide approx. lat/long.

Thanks for assisting with coordination.

Mike

Michael Penko
Ecologist
US Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA 01742
978-318-8139

-----Original Message-----
From: McGuinness, Brendan [mailto:Brendan.McGuinness@aecom.com]
Sent: Monday, May 23, 2016 5:43 PM
To: Glenn, Steven <Steven.Glenn@aecom.com>
Cc: Martin, Amanda (Arlington) <Amanda.Martin@aecom.com>; Donahue, Megan <Megan.Donahue@aecom.com>; Cullen, Megan E NAE <Megan.E.Cullen@usace.army.mil>; Penko, John M (Michael) NAE <Michael.Penko@usace.army.mil>; MacEwan, Mark <Mark.MacEwan@aecom.com>
Subject: [EXTERNAL] FW: Viburnum dentatum var. venosum at Camp Hero State Park

Hi Steve – Good work. I have included Megan Cullen and Mike Penko and our team on this most recent email chain. It appears we may be good to go without extra measures for protection of seedlings for drilling at Camp Hero?

Brendan McGuinness

AECOM Environment

D 703.682.1564

From: Young, Steve (DEC) [mailto:steve.young@dec.ny.gov]
Sent: Monday, May 23, 2016 4:55 PM
To: Lundgren, Julie (PARKS); McGuinness, Brendan; Glenn, Steven; Garofolo, Nicole (PARKS)
Cc: Ring, Richard M (DEC); CebadaMora, Gabriella (PARKS)
Subject: RE: Viburnum dentatum var. venosum at Camp Hero State Park

NYSDEC SPILL REPORT FORM

DEC REGION: 1 **SPILL NUMBER:** 1602757

SPILL NAME: CAMP HERO **DEC LEAD:** NJACAMPO

SPILL DATE: 06/19/2016 **SPILL TIME:** 10:30 am

CALL RECEIVED DATE: 06/19/2016 **RECEIVED TIME:** 11:34 am

SPILL LOCATION

PLACE: CAMP HERO **COUNTY:** Suffolk

STREET: 1898 MONTAUK HIGHWAY **TOWN/CITY:** East Hampton

COMMUNITY: CAMP HERO

CONTACT: MEGAN CULLEN **CONTACT PHONE:** 781 799 0310

CONT. FACTOR: Unknown **SPILL REPORTED BY:** Federal Government

FACILITY TYPE: Institutional, Educational, Gov., Other **WATERBODY:**

CALLER REMARKS:

Caller advised after installing a well found residual unknown product. Clean up is pending.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
unknown material	Other		0 L	Soil,
unknown material	Other		0 L	GW,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
US ARMY COE	NY	

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure

DEC REMARKS:

06/20/2016 @ 0815: Acampora left message for Ms. Megan Cullen, US ACoE to obtain additional details.

06/20/2016 @ 0823: Acampora had telecon with Ms. Cullen. Piezometer PZ-03 located near former Building 203 (Power House) indicates 4.5' of weathered petroleum (piezometer 1" diameter). Groundwater at 13.5' (product from 8' to 13.5'). She will submit an updated map indicating piezometer locations today.

PIN **T & A** **COST CENTER**

CLASS: B3 **CLOSE DATE:** **MEETS STANDARDS:** False

Created On: 06/19/2016

Date Printed: 6/21/2016 Last Updated: 06/21/2016

PUBLIC NOTICE

FORMER CAMP HERO
FORMERLY USED DEFENSE SITE
RESTORATION ADVISORY BOARD ASSESSMENT

The U.S. Army Corps of Engineers (USACE) is required to assess community interest in forming a Restoration Advisory Board (RAB) at Formerly Used Defense Sites (FUDS). USACE is issuing this notice to assess public interest at this site and determine whether the formation of a RAB is appropriate.

USACE is initiating a remedial investigation of the former Camp Hero, under the Defense Environmental Restoration Program for FUDS. The investigation will focus on previous USACE actions taken at the site (such as underground storage tank removals) and determine if further response actions are necessary.

The former Camp Hero, located in Montauk, Suffolk County, was utilized for training activities during the Revolutionary War, the War of 1812, the Spanish-American War, World War I and World War II. During and after WWII, it was a coastal defense installation. In 1951, an anti-aircraft artillery (AAA) unit used a firing range and conducted field exercises; in 1952, a portion of the site was used as the Montauk Air Force Station.

Today, the majority of the former Camp Hero is under the jurisdiction of the New York State Office of Parks, Recreation and Historic Preservation (as Montauk State Park); the Town of East Hampton controls a portion of the former Camp Hero used for housing.

A RAB is one of many methods USACE may use to facilitate public participation. Regardless of whether a RAB is formed, USACE will continue to involve the community in accordance with FUDS regulations. The RAB provides a collaborative forum for the community, government agencies, Indian nations, and property owners to discuss and identify the most efficient and productive means to clean up a site. A RAB should be established when there is sufficient and sustained community interest, and any of the following criteria are met:

1) The closure of an installation involves the transfer of a property to the community;
2) At least 50 citizens petition the installation for the creation of a RAB;
3) Indian nations, Federal, State or Local government representatives request the formation of a RAB: or,
4) The USACE determines the need for a RAB based on community responses to a solicitation for input, correspondence, media coverage, and other relevant information that show that there is sufficient and sustained community interest in the establishment and operation of a RAB.

The USACE-New York District welcomes public feedback regarding community interest in establishing a RAB for the Camp Hero FUDS. Inquiries or questions should be submitted within 30 days of this notice via mail to the U. S. Army Corps of Engineers, New York District, Mr. Gregory J. Goepfert, Project Manager, CENAN-PP-E, 26 Federal Plaza, Rm. 1811, New York, New York 10278. Within 60 days from publication of this notice, USACE will make a determination on whether a RAB will be formed. Individuals that express interest in forming a RAB will be notified via return U.S. mail of the USACE determination.

An Information Repository will be established at the Montauk Library, 871 Montauk Highway, Montauk, New York 11954, which will include the investigation work plan, and document the rationale for all remedial action decisions.

A project fact sheet has been placed at:
https://nan.usace.afpims.mil/Missions/Environmental/EnvironmentalRemediation/FormerlyUsedDefenseSites/CampHero.aspx

U.S. ARMY CORPS OF ENGINEERS – NEW YORK DISTRICT

"Sheila, Lou, and Kafka"
Fiction by Joan Colen

About 10 years ago, Sheila convinced Lou to take her on a sentimental journey to Prague and Budapest, a trip he never would have taken without her.

Lou loved France, especially Paris and its wonderful restaurants. As a bachelor he reveled in trips to Paris and the Loire. He was and still is a talented photographer. His pictures of France rival those of Cartier-Bresson, in his opinion. And in Sheila's too. Shy about showing his work in public, Sheila once sold his photos on a street corner near the Metropolitan Museum of Art just to show Lou they could sell. She placed them on a large blanket and hoped she didn't see anyone she knew on the Upper East Side where they lived. In a mere hour, his photographs of Paris were sold! Sheila was ecstatic, Lou was furious. It was before the days of digital and Lou had taken hours to print them. He didn't care that Sheila came home with a fistful of cash.

"You know how long it's going to take for me to do all those again?"

Lou also has spectacular photos of Venice and Tuscany, and the food is marvelous; but Prague and Budapest, stews and goulash, not to his taste. But Lou was a man who was resigned to pleasing his wife. The couple had been together for years and could finish each others' sentences, thoughts, and jokes. No one knew Sheila better than Lou. He had tolerated her PMS, sometimes foul mouth and was a comfort and support in her depression after a tragic miscarriage when the baby she carried would have been severely retarded if it had lived. But in general, they had experienced a lucky life so far. When Sheila suggested the trip, Lou acquiesced.

"I'll go even though I hear the food's bad."

"Lou, it's always about food. There are other things, Lou."

"Sheila, I notice you eat more than I do."

"Let's not get into this again. My grandfather was born near Prague, or was it his father. You know, the one who sold Beck's Bohemian Liniment, Good for Man and Beast."

"I know, Sheila, to the farmers up near Hudson, New York."

"Yes, well, they were lucky to come here, Lou. Some didn't. So I want to see it for myself. Mom always talked about it. I'm sure she wishes she had gone. And what about Kafka?"

"What about him? He was depressed. All of Eastern Europe is probably depressed."

"Not any more, Lou, times have changed. I want to see Prague, trace my roots; and I always liked Kafka."

"I know, like, the depressing movies you drag me to."

"Lou, we can't avoid sad things."

"Well, I'm not visiting a concentration camp, I have my limits."

Lou was like that. He avoided anything he knew would make him sad. There was a tendency in his family toward depression. And no wonder; his mother had lost her mother to a trolley car that hit her on Fifth Avenue. Lou's mother never talked about anything much, let alone tragedy. In her later years she went into a depression that even electric shock could not dissuade. Lou hates to talk about his mother.

The couple had spent some of their youth in the optimistic '50s, where first-generation and second-generation families tried to put the war behind them and all of America believed in an Oz-like happiness. There would be no more great wars; Ike would see to that. The family had prospered in real estate and textiles. There is no way that Lou wanted any reminder of bad times and the hatred that had blinded Europe.

There was good news and bad news on their trip. In Budapest on the Buda side, Lou found a really great restaurant. It was in a beautiful yellow townhouse surrounded by trees. The ceilings were high; a piano played bohemian rhapsodies. Lou held Sheila's hand and said it was romantic. When Sheila looked closely, as she always did, she saw the pianist was old, hunchbacked, and lecherous; he kept winking at her. But Lou with his cup always half full is happy. He doesn't notice who's playing; he just enjoys the music.

At the next table was a family celebrating the birthday of their daughter; perhaps she is nine or 10. A cake was brought to the table and "Happy Birthday" played. Lou loves watching children. Sheila, with her cup half empty, feels sad. She misses the childhoods of her own daughters now that they are grown up and far away. Lou leans over and kisses her on the cheek, and winks. Why does he love me so much? she is thinking.

They saw the sights and the large imposing synagogue, spared by the bombings somehow. It was impressive and filled with tourists; few congregants were left in this city with a once-thriving Jewish population. Sheila thinks again of her mother, how she would have loved being here.

"How come when we're away, we see every synagogue, Sheila, but when we're home you never set foot in one?"

"I don't know; just to feel connected. I'm going to bring Mother a booklet from the gift shop."

"Your mother doesn't go to temple either. What's with you, Sheila?"

"Look, Lou, if we had lived here then, we'd be dead. It just makes me think, and Lou, I'm warning you, in Prague, I need a tour of the Jewish Quarter. It's a must!"

So here they are in Prague, in the confines of the Jewish Quarter, on a hot summer's day, their first in Prague, trekking around with a group and a guide. They have meandered through the tiny cobblestone streets, Sheila thinking that her great-grandfather might have stepped on these same stones. They talk occasionally with their fellow travelers, all around their age, from places like Roslyn, Great Neck, or Forest Hills. The once-thriving Jewish ghetto is now a museum, a kind of Jewish Disneyland as if created for the eyes of tourists. There is even a museum built by the Nazis to show "the culture that did not survive." We fooled them, thinks Sheila. The group visited the famous Jewish cemetery where the headstones of the graves were piled on top of one another for generations; the Jews were allotted only a small piece of land to bury their dead. This was their inventive solution, the stones of their ancestors jammed together like tenements on the Lower East Side, no room to move or expand. Jewish graves piled one on top of the other in a segregated space.

"There's no room for the dead to breathe," joked Lou.

"That's not funny," said Sheila.

"Look, Sheila, you dragged me here. I told you it would be depressing."

"Shh, Lou, it's reality."

The Pincus synagogue was next. It was empty except for the thousands of names on its white walls, painted with block letters in red and black. The names were alphabetical, listing the dates of birth and death and the names of the camps where they had been murdered. And there Sheila found the names Meyer and Anna Bek, Treblinka, 1944.

"Lou, come here quick with the camera. I found Grandpa Moe's sister Anna. Take a picture for Mom."

Lou took the picture and was approached by a guard who told him no photos were allowed; but he had gotten the shot. On the way back to their hotel, Sheila wanted to see the picture.

"Will this really mean anything to your mother? You know she's been kind of vague lately."

"It means something to me. I saw the family tree. I know Moe had a sister Anna who stayed in Prague and was killed. It's got to be her, although the spelling is without a C. It's them, I know it. As a child, mother told me, relatives were begging for money and passage, but it must have been too late."

Sheila was crying; Lou was distressed.

"I found a restaurant in the Four Seasons; it gets a 28 in Zagat's. Get dressed up, I'll take you there tonight."

All through dinner Sheila thought of the lost family. She didn't enjoy the meal. Lou was disappointed. The fish was bland, the meal overpriced.

"I just knew we couldn't find a decent restaurant here," said Lou.

"Lou, there's more to life than food."

The next day Sheila convinced Lou to visit the Kafka museum. It was the second to last day of the trip.

Outside the museum was the last laugh Lou would get. There was a water fountain — two men peeing. The water flowed from each penis.

"Sheila, put your hand around a penis; let me get a shot!"

"No thank you, Lou."

Once inside the dark and strange museum, no one was laughing. Sheila had read a little Kafka in college. She knew that he was one of the great 20th-century writers, a Jew who wrote in German. A Jew who had made Prague the background of his stories. She loved "Metamorphosis," not sure she understood it. She thought maybe Gregor Samsa was crazy or maybe funny. She knew he was trapped. It was all about being trapped with Kafka; she knew that much.

The museum conveyed that same feeling. There were exhibits of his work and pictures of Prague in his day. There was this ominous feeling that came over Sheila that day. Something bad was going to happen. She thought she heard the sound of insects, roaches clicking like Samsa, who was a man who turned into a cockroach. That's how Kafka must have felt with a mind such as his, trapped working in an insurance office, trapped in the bureaucracy of a society that must have shunned him. On the second level of the odd museum was a replica of the torture machine pictured in his story "The Penal Colony." Kafka's relatives, too, had died in the camps. How he had foreshadowed the coming of Fascism and even Communism in his stories. What a genius!

After they left the museum, the couple held hands as they walked across the King Charles Bridge.

"I need a drink, " said Lou. "Next time I pick the country. Somewhere happy like Spain."

"Bad stuff happens everywhere, Lou."

On their last day, they decided to take the number 25 tram, which made a loop around the entire city. A couple on their tour had recommended it. They bought tickets and took their seats.

Then they were approached by five burly young men wearing black shirts.

"Tickets plees?" said one of the black shirts.

"Who are you?" said Sheila.

"Tickets plees?" another black shirt in a louder voice.

Lou fumbled in his pockets for the bus tickets.

"Not validated," they said in unison. "Off the bus." The other passengers looked on in silence as if they were afraid to interfere.

"What?" asked Sheila. "No one told us about validated. We paid for the tickets!"

One black shirt pointed to a machine near the entrance to the tram, "Walidated there. Get off bus!"

"Stand up, Sheila, don't argue," said Lou.

Sheila thought of Kafka as one burly black shirt gave her a push as she attempted to leave the tram.

"Passport plees," one said as they were on the street.

"They're in our hotel. We don't carry them. We're senior citizens. What do we know, this is unfair. I may call the embassy. I want a policeman."

"Sheila, don't make it worse!"

"You pay fine. Two thousand kroners."

"Shit," said Lou, "that's like two hundred bucks."

"ATM there."

How convenient, thinks Sheila as she withdraws the money from her account. She feels violated, and guilty for some reason. Lou could have had a terrific meal somewhere for the cost of this fine. She handed the money over and felt rather stunned by the whole day.

As the couple crossed the Charles for the last time in a despondent daze, Sheila felt the ghost of Kafka, laughing.

Lou had the last word: "I knew I didn't want to come to Prague."

—

Joan Colen is a fiction writer who has studied at the Hunter College Writing Center. She summers in East Hampton.

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Appendix D

Army Geospatial Center Report

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CAMP HERO
MONTAUK, NEW YORK

Historical Site Review (1940-1982)
Formerly Used Defense Sites Program

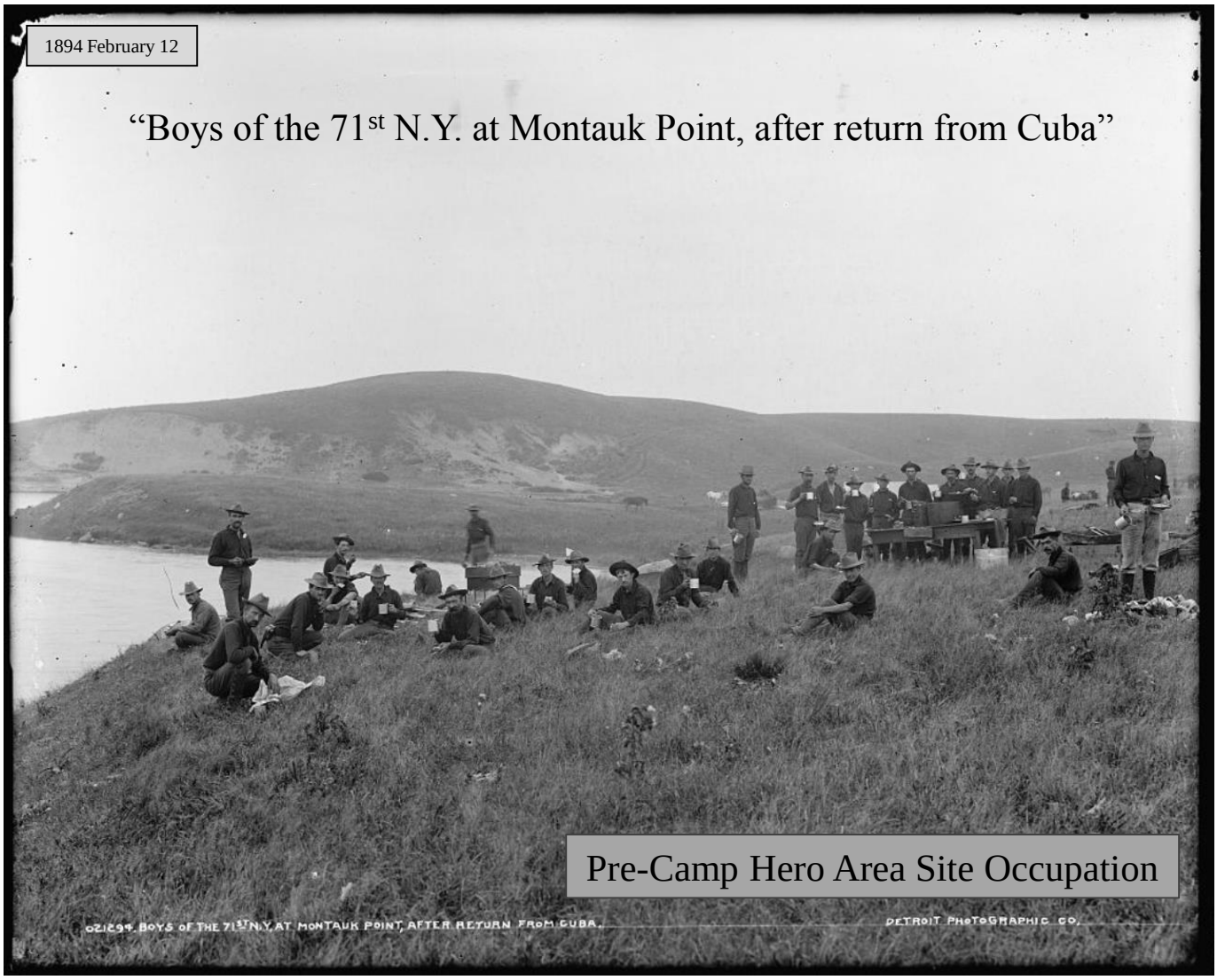

Photo Source: Library of Congress

March 2016

U.S. Army Corps of Engineers
Army Geospatial Center
Warfighter Support Directorate
Hydrologic & Environmental Analysis Branch
Environmental Analysis Team
7701 Telegraph Road
Alexandria, Virginia 22315-3864

Prepared for the U.S. Army Corps of Engineers,
New York District, New York, New York

NOTICE

The views, opinions, and conclusions in this report are those of the authors and should not be construed as official Department of Army positions or policy unless so designated by other documentation.

INTRODUCTION

The Hydrologic and Environmental Analysis Branch of the Warfighter Support Directorate was tasked to search, collect and quickly review historical aerial photography from 1940-1982 searching for features associated with dumps within the former Camp Hero boundary in Montauk Point, New York.

This report contains a summary of potential locations, along with a list of spatial data collected from 1940-1982.

This study was completed for the U.S. Army Corps of Engineers (USACE), New York District, New York, New York.

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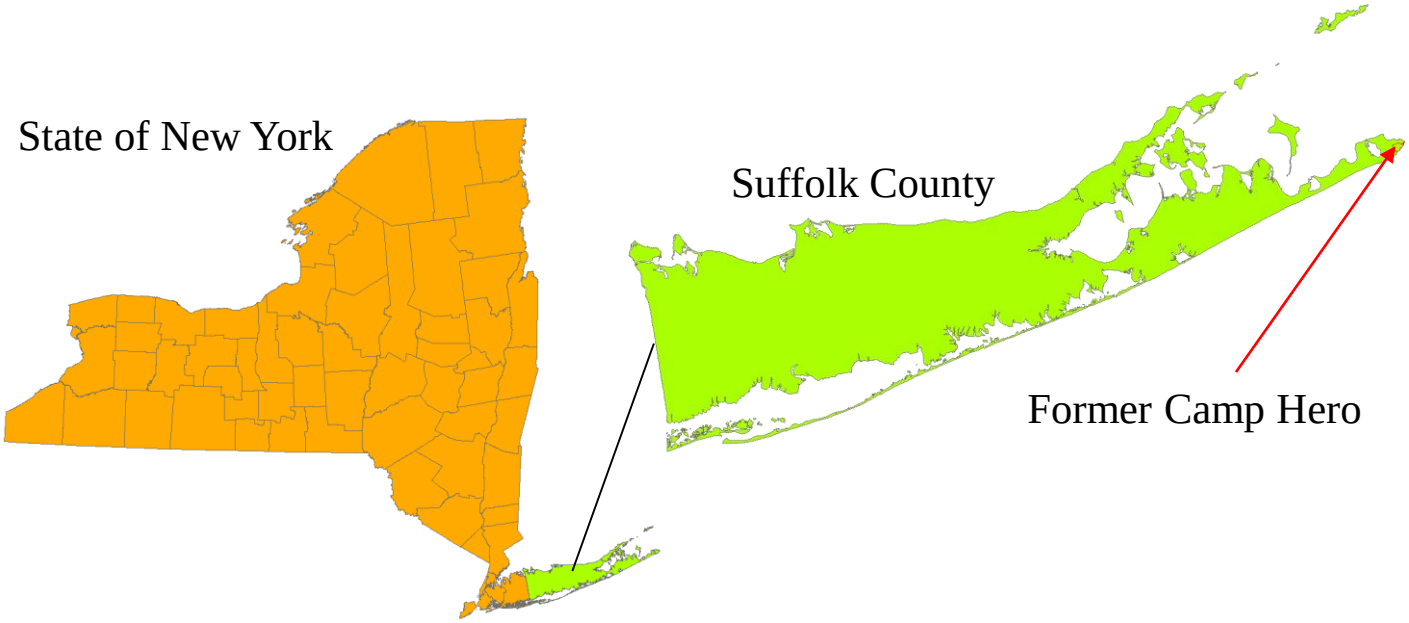
PAGE 27	SOURCES OF SPATIAL DATA
PAGE 28	SOURCES OF INFORMATION

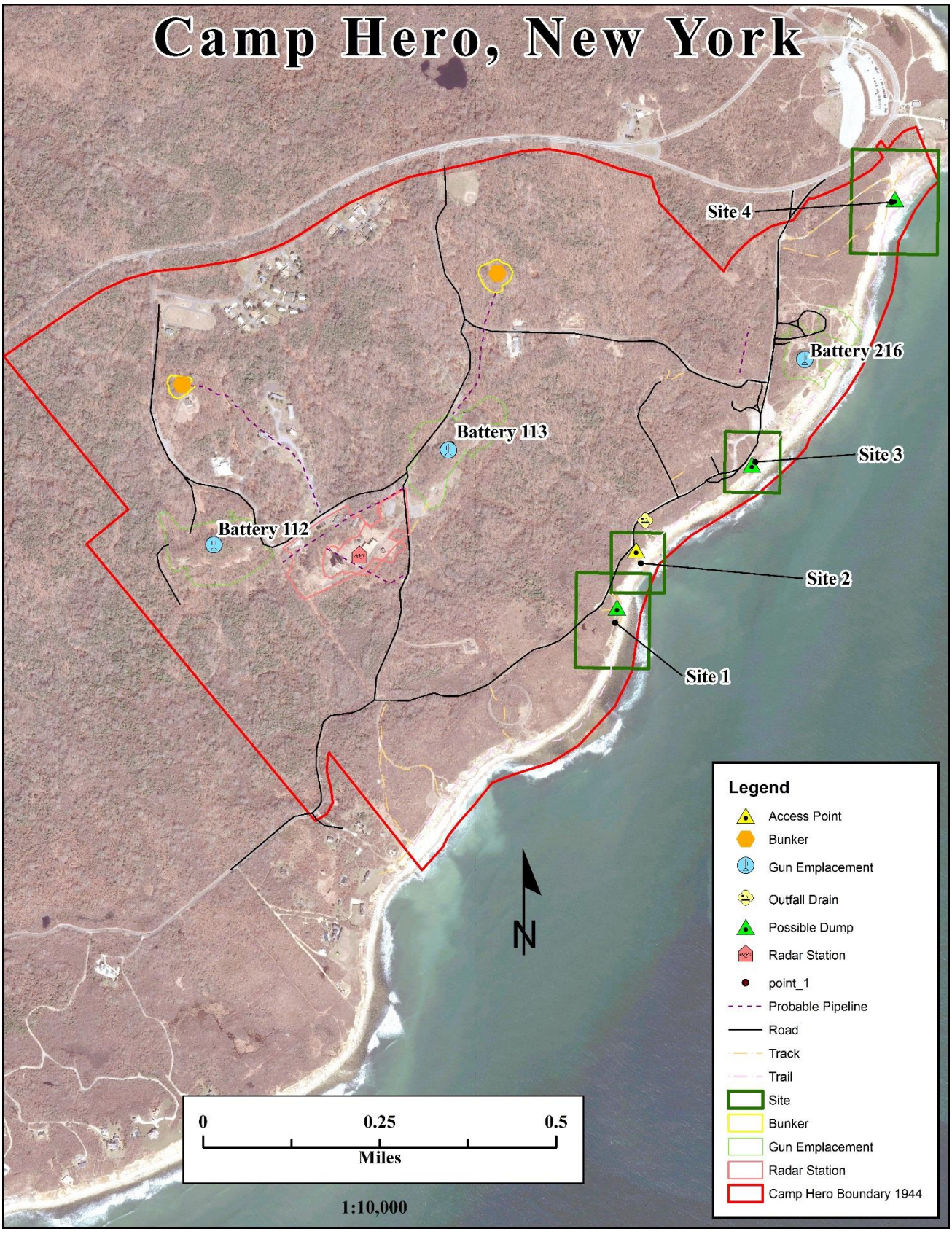
PROJECT AREA LOCATION
FORMER CAMP HERO, NEW YORK

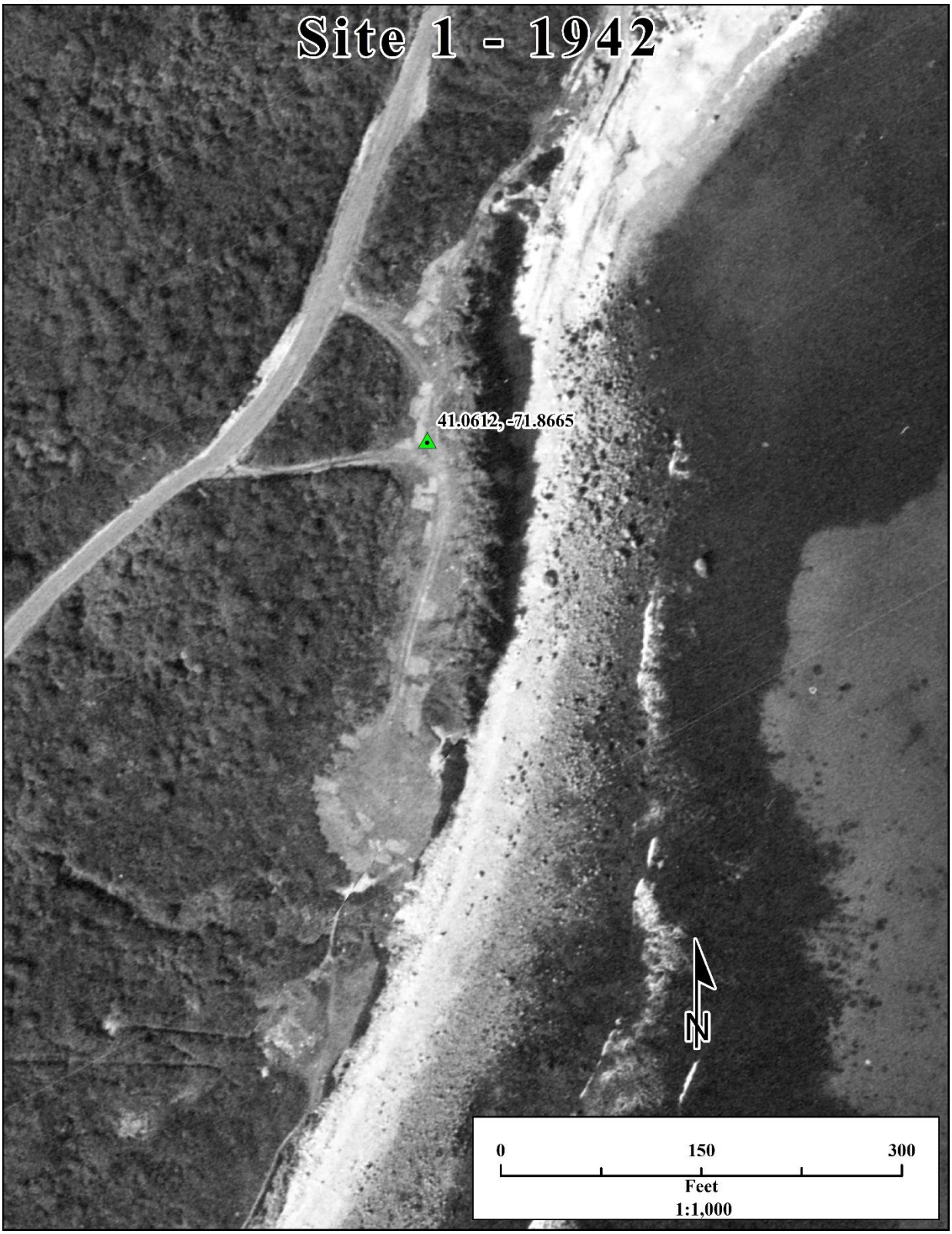


Area of Interest

= Former Camp Hero boundary lines

Site Locations
1940-1982





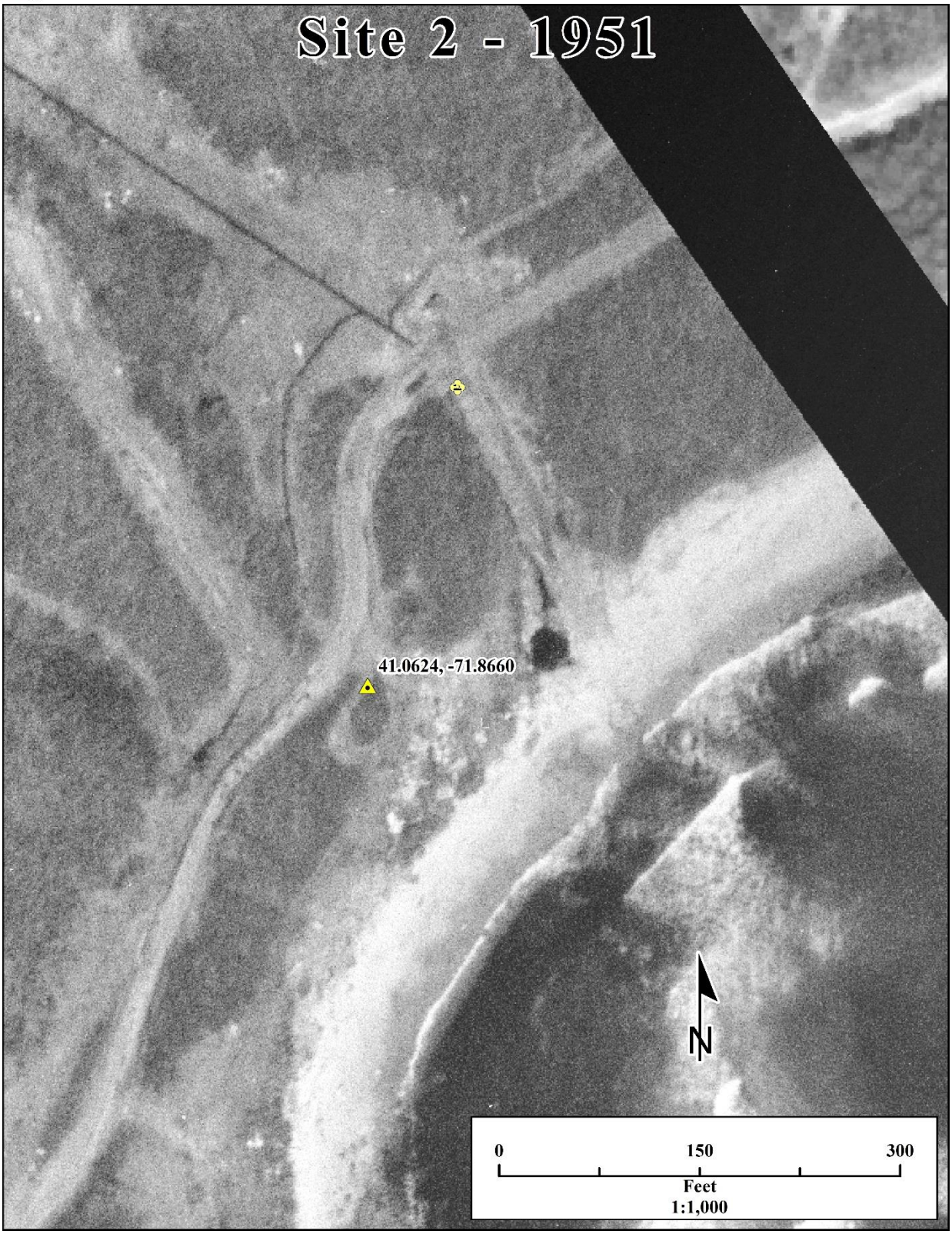
Access to a cleared area from main roadways indicates that this could be a possible dump location. Vehicle tracks are clearly visible and there is access to the bluff.

No aerial photographic evidence of waste piles or dumping is observed in 1951.

Possible erosion or slope failure is observed in 1962 in the area of possible dumping (noted by arrow). Vehicle tracks are observed in the beach area.

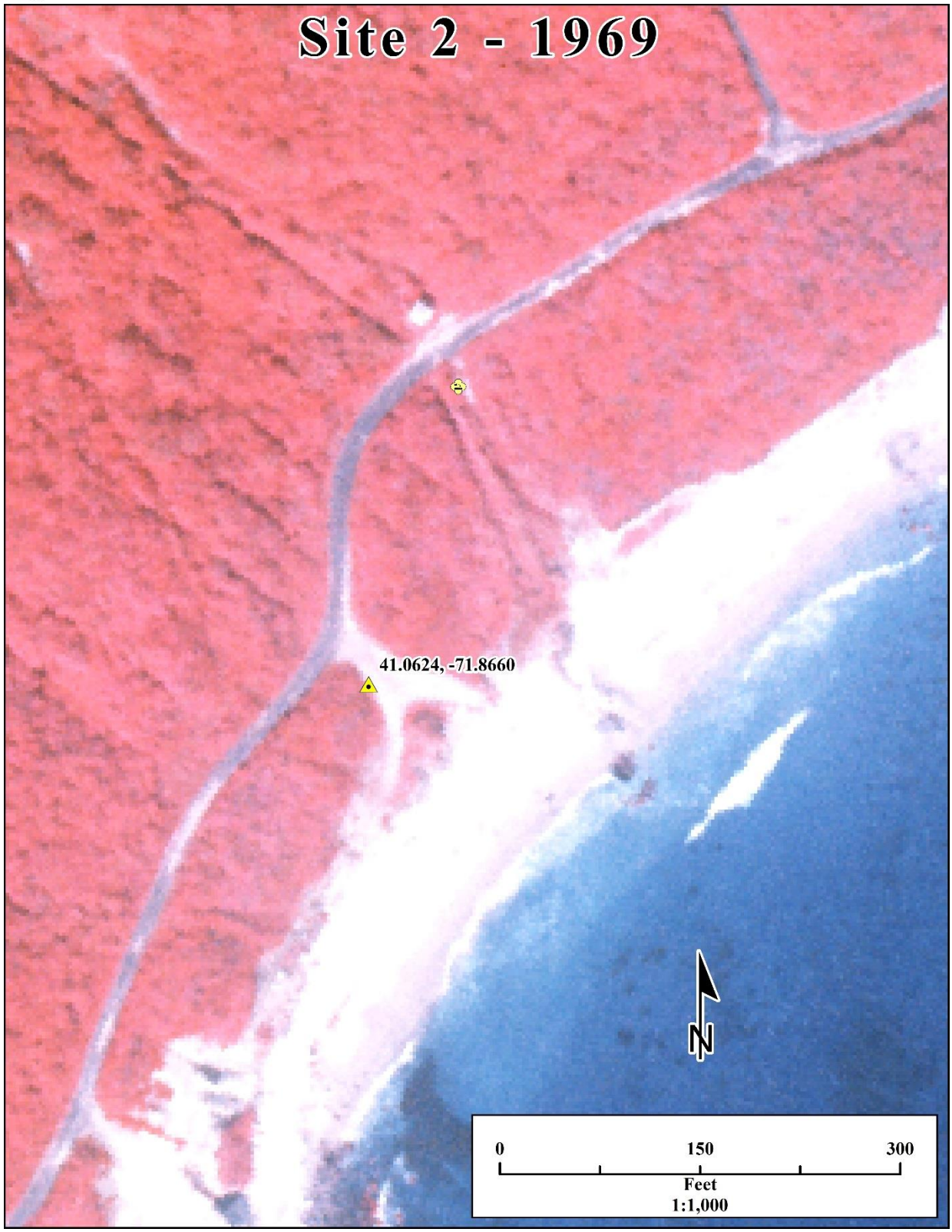
No evidence of waste piles or dumping is observed in the 2013 satellite image.

Access from the main roadway to a cleared area on the beach indicates that this could be a possible dump location. Vehicle tracks are clearly visible in this area.



Possible erosion and/or slope failure near the access point from the roadway is observed in the 1951 aerial photograph. It's possible that dumping could have occurred at this point, as there are vehicular tracks leading to and from this area. No clear, obvious evidence of waste piles or dumping is observed in 1951. Note: Low spatial resolution of this photograph does now allow for the identification of waste piles or dumping.

No aerial photographic evidence of waste piles or dumping is observed at Site 2 in 1962.



No significant activity is observed at the site in 1969. Note: In this color-infrared photograph, vegetation appears red in color. Also, low spatial resolution of this image does now allow for the identification of waste piles or dumping.

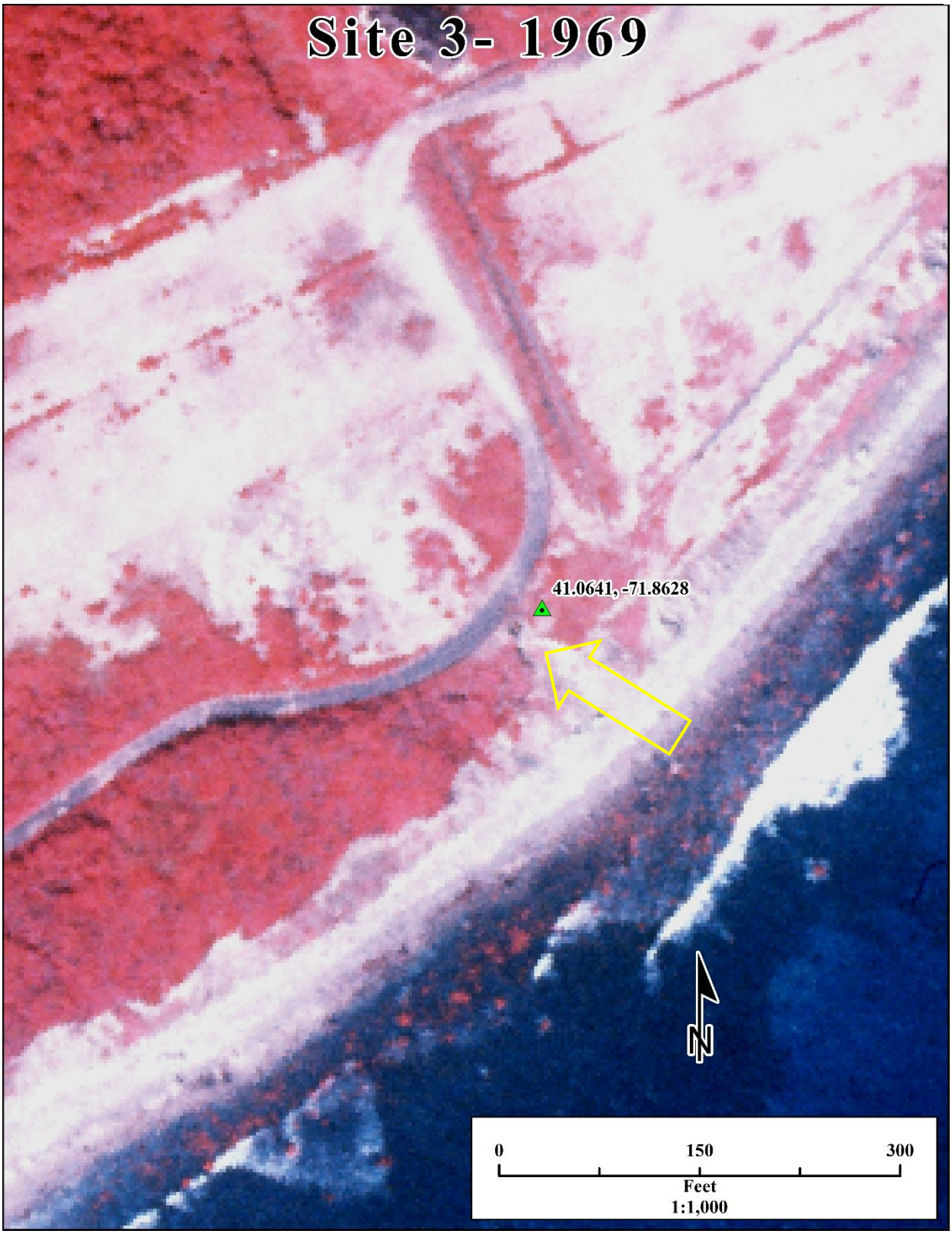
No aerial photographic evidence of waste piles or dumping is observed at Site 2 in 2013.

Site 3 is an area where possible dumping could have occurred; however, no dumping-related activity is observed in 1942. Note residential houses are observed in 1942, as well as open storage of drums at the top of the image.

Major clearing of the property north of the possible dump site is observed. Heavy vehicle tracks are also observed in 1954 aerial photograph. Access to the bluff and beach are evident at this locations and dumping could have occurred during this clearing. The activity in this photograph is the same activity seen in the 1961 photograph on the next page. Material can be observed; however, coupled with the evidence seen from the finer resolution of the 1961 image, there is no direct evidence of dumping or waste piles observed in 1954. Note that houses from 1942 have been removed.

Continued activity, evidenced by vehicle tracks, is observed north of possible dump site. Possible debris, excess grading material, and/or accumulation of rock material due to slope failure is observed at the site.

Continued activity, evidenced by vehicle tracks, is observed north of possible dump site. Possible debris, excess grading material, and/or accumulation of rock material due to slope failure is observed at the site.

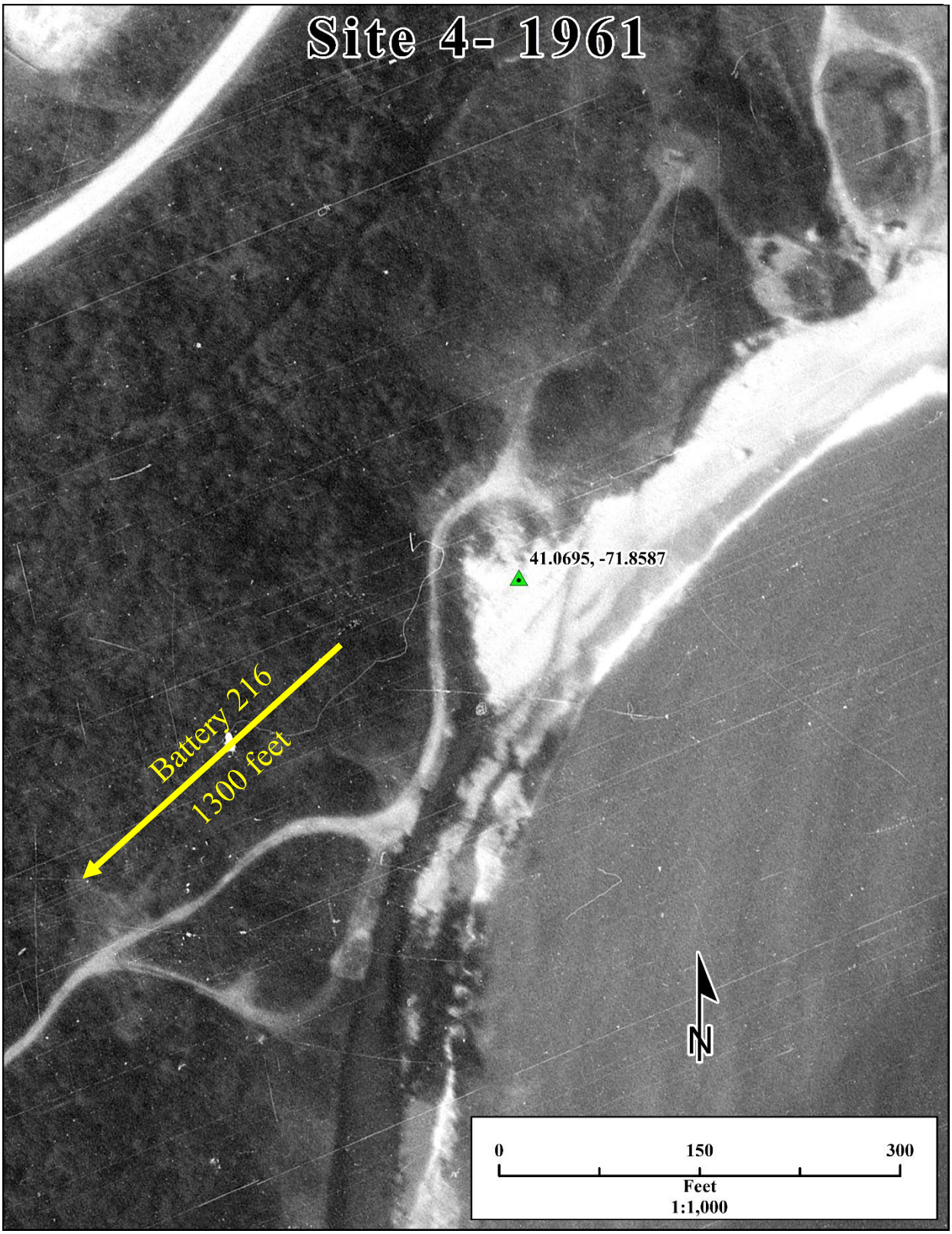


The lack of vegetation observed at the site could be indicative of continued erosion and possible slope failure identified by arrow. Note: In this color-infrared photograph, vegetation appears red in color.

The formerly cleared areas north of Site 3 have been revegetated. No aerial photographic evidence of waste piles or dumping is observed at Site 3 in 2013.

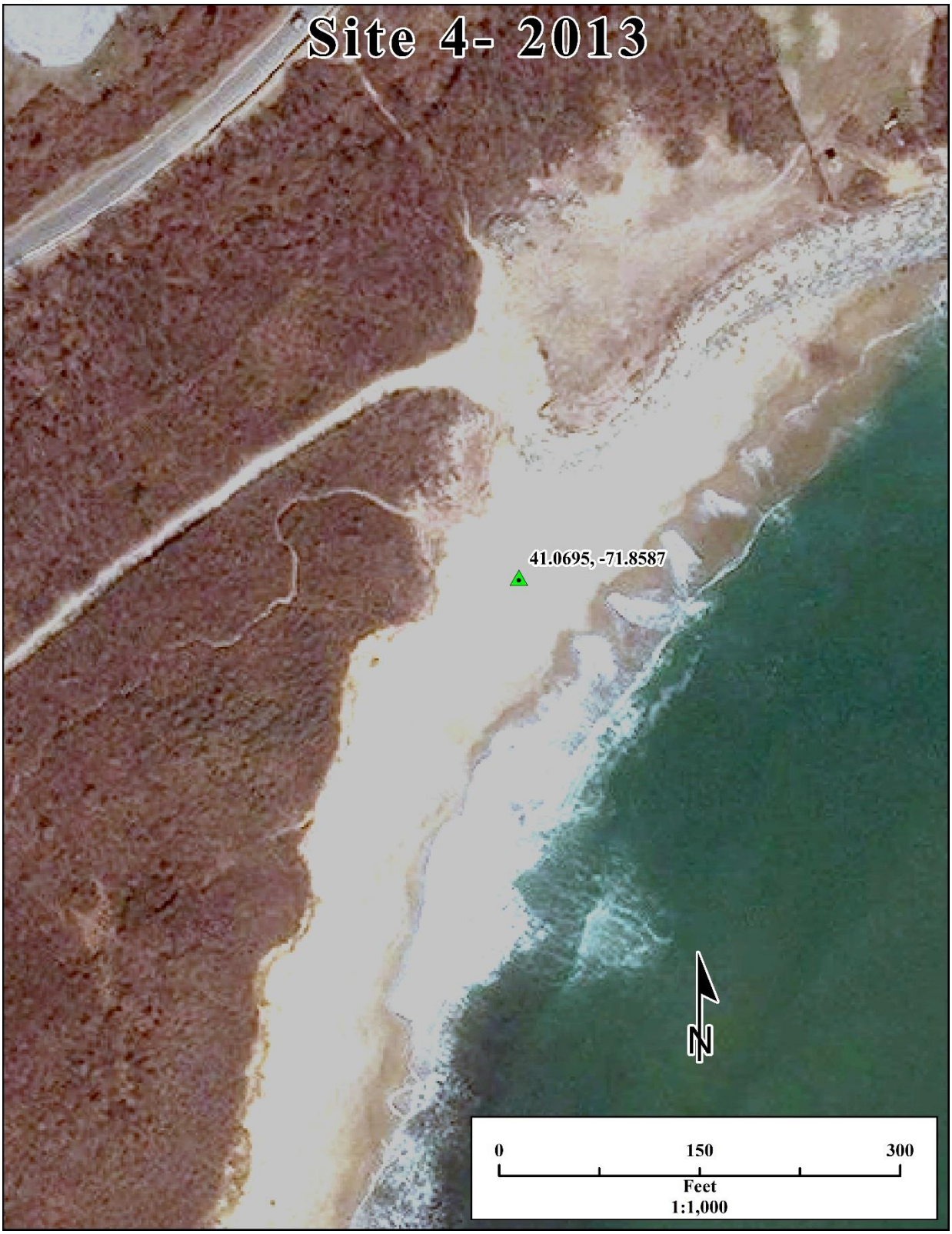
Although no significant dumping or activity is observed at Site 4 in 1942, subsequent years indicate the site could have been an area used for dumping.

Tracks leading to and from the main roadway indicate the area was accessed in 1954.



In improved track leading from Battery 216 appears in the 1961 aerial photography. This area could have been a possible dump area north of Battery 216.

A small building appears 125 feet north of the possible dump site in the 1969 aerial photograph. There does not appear to be any direct evidence of dumping at the site (accumulated debris or piles of material). Note: In this color-infrared photograph, vegetation appears red in color.



Structures at Site 4 have been removed. No evidence of waste piles or dumping is observed at Site 4 in 2013.

CONCLUSIONS, LIMITATIONS & RECOMMENDATIONS

CONCLUSIONS

There was no photographic evidence of debris accumulation suggestive of a dump in the years collected within the timeframe of this project. There are four areas where dumping could have taken place (access points to cleared areas near or along the bluff during different years within the timeframe) and are identified within this report. Area 3 is the only site where significant material can be seen. This area could have been a potential landslide or contain piles of debris or material, given the activity adjacent to this area when the material can be seen, indicates possible dumping activity and should be further reviewed. There is significant activity observed around the location of Battery 216 (Site 4) during construction, but no features signifying long term dumping activity were identified per Conversation Record 1-2: James Schneidmuller, 1969-1993, "he knows of no landfill on the former camp, however there is evidence of an Army dumping station trash off the bluff by battery 216 into the ocean". The proximity of the other areas (Areas 2-3 south and Area 4 north) around Battery 216 could be associated with James' comments, but do not directly support the site association.

LIMITATIONS

The quality of photography collected during this project's limited timeframe contains a mix of spatial resolutions; only one or two years possess a resolution quality high enough to visually identify smaller dumping activities. Additional years of photography are available and should be analyzed to rule out potential dumping activities. Analysis should also include finding and incorporating historical cartographic material and textual documents in order to verify or rule out any evidence of landfills or dumping. For example, the area identified are part of the AAA Firing Point area delineated on the Facility Layout Map (Archive Search Report, Plate 3). More research into the details of the activities of AAA Firing Point area could provide more insight into possible dumping, burial, or landfills along the southeastern coast of Former Camp Hero.

RECOMMENDATIONS

A full Historical Photographic Analysis, including a report and GIS package, is recommended. This process would include additional years of photography as well as a thorough analysis of the entire area. Irregularities within the existing photos reviewed indicate additional areas that should be reviewed further. In addition, the long history of the site area (to include the larger Camp Wikoff) limits some feature confirmation due to prior activity in the area, so including investigating activity at the site through research in the form of maps, available photography, and textual records is highly recommended.

SOURCES OF SPATIAL DATA

DATE	SOURCE	REMARKS
1942, 22 November	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1942, 22 November	NARA	PAN OBLIQUE AERIAL PHOTOGRAPHY
1944, 08 August	NOAA	PAN VERTICAL AERIAL PHOTOGRAPHY
1947, 27 September	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1951, 23 April	NOAA	PAN VERTICAL AERIAL PHOTOGRAPHY
1952, 11 February*	DIA	PAN VERTICAL AERIAL PHOTOGRAPHY
1954, 20 February	USGS	PAN VERTICAL AERIAL PHOTOGRAPHY
1956, 23 February*	DIA	PAN VERTICAL AERIAL PHOTOGRAPHY
1960, 19 October*	USDA	PAN VERTICAL AERIAL PHOTOGRAPHY
1961, 22 September	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1961, 22 September	NARA	PAN OBLIQUE AERIAL PHOTOGRAPHY
1962, 18 March	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1962, 25 March	NOAA	PAN VERTICAL AERIAL PHOTOGRAPH
1969, 16 September	USGS	CIR VERTICAL AERIAL PHOTOGRAPH
1971, 16 June	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1972, 12 July	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1972, 16 November	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1973, 10 August	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1973, 20 September	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1974, 27 April	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1979, 13 September	NARA	PAN VERTICAL AERIAL PHOTOGRAPHY
1980, 10 October	NOAA	MS VERTICAL AERIAL PHOTOGRAPH
2013, 22 March	NGA	MS SATELLITE ORTHOIMAGE
2016, 20 January	NGA	MS SATELLITE ORTHOIMAGE

DIA = Defense Intelligence Agency
NARA = National Archives & Records Administration
NGA = National Geospatial-Intelligence Agency
NOAA= National Oceanic and Atmospheric Administration
USGS = U.S. Geological Survey

PAN = panchromatic (black & white)
MS = multispectral (color)
CIR = color infrared (outside of visual spectrum, false color applied)

*Photography not received by AGC at the time of report completion.

SOURCES OF INFORMATION

National Archives and Records Administration (NARA) II
8601 Adelphi Road, College Park, MD

National Geospatial-Intelligence Agency
7500 GEOINT Drive, Springfield, VA

National Oceanic and Atmospheric Administration,
National Geodetic Survey Remote Sensing Division
1315 East-West Highway, Station 5150, Silver Spring, MD

U.S. Department of Agriculture, Farm Service Agency
Aerial Photography Field Office, 2222 West 2300 South, Salt Lake City, UT

U.S. Geological Survey
Earth Explorer Web Portal (www.earthexplorer.usgs.gov/)

Appendix E

Geophysical Survey Report

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June 01st, 2016

Mark MacEwan, P.E.
Senior Program Director, AECOM
3101 Wilson Boulevard, Suite 900
Arlington, VA 22201
D 703.682.9092; mark.macewan@aecom.com.

Mr. MacEwan:

According to the Scope of Work (SOW) pertaining to supporting the overarching former Camp Hero Remedial Investigation (RI) Work Plan (WP) and other planning documents, AECOM intends to check the sites for indicators of residual utilities or unique subsurface features still in place. As part of the contract, subsurface soil samples and/or groundwater samples are required to be acquired near subsurface pollution source features (e.g., underground storage tanks [USTs], above ground storage tanks [ASTs], fuel pump houses [FPHs], waste dumps) without damaging or puncturing military installation infrastructure. Therefore, prior to the sampling activities, Digital Geophysical Mapping (DGM) surveys were planned as a proactive supplement to narrow down the search areas for specific installation infrastructure of interest for subsequent sampling activities. This process will supplement the local public utilities 1-call services as part of utility mark-outs as those only cover active utilities emplaced by the local government. As part of the DGM survey, the following areas were required for assessment of residual installation infrastructure features within the confines of pre-defined search areas at the Camp Hero facility:

- Tank A – Building 0020 – Fire Department, suspected former UST location(s)
- Tank B – Building 0022 – Kitchen/Office, suspected former UST location(s)
- Tank C – Building 0002 – Barracks, suspected former UST location(s)
- Tank D – Building 104R – Commissary, suspected former UST location(s)
- Tank E – Building 3001 – AT&T/Lilco, suspected former UST location(s)
- Tank F – Building FPH – suspected former UST location(s), hazardous materials
- Tank G – Building FPH – suspected former UST location(s),
- Tank 35 - Building FPH – large AST as part of the pump house(s)
- Vaults – Batteries 0216 – unknown use, potential storage or vaults
- Waste Area – Building 0113 – Plotting Room, potential storage or waste dump site

The intent of the geophysical surveys at each of the above sites is to: (a) verify the outline of a tank (if still exists), (b) identify the extent of residual subsurface features, and (c) examine the general vicinity to support the safe subsurface sampling within close proximity to key features.

1.0 FIELD SURVEY NOTES

The field survey methods consisted of a combination of electromagnetic (EM) Digital Geophysical Mapping (DGM) and magnetic (MAG) Analog Geophysical Mapping (AGM) metal detection surveys, at 5-ft increments, within the bounds of passable areas within the bounds of

each pre-marked survey area. The DGM was completed using the Geonics EM61-MK2 in relatively open areas while AGM, using a Schonstedt GA-72cd, was reserved for vegetated areas not maneuverable using DGM methods. After each set of sweeps and/or analyses, interpreted locations were relocated, marked, and annotated as to whether a surface feature coincides. As a footnote, the survey techniques will only verify the rough dimensions of a subsurface metal object, not necessarily verify the object is the tank unless inferences can be made because the expected location of the tank matches the outlined location of the tank. Regardless, the objects identified are large enough and should be avoided during sampling or any subsurface investigation activities. The field survey logbook notes in **Attachment A** catalogues file names, field procedures, and surface features pertinent to the process of interpretation of subsurface metal detection data. The expected locations of the tank(s) along with proposed sampling locations, as excerpted from the WP, are provided in **Attachment B** for reference. Lastly, a summary of field surveys with preliminary interpretations specific to each area are as follows. For reference to the text below, the final interpretation maps are provided in **Attachment C**.

1.1 *Tank A – Building 0020*

The findings are shown in **Figure 1** (i.e. a side-by-side representation of the full-sized map Figures B-1, C-1) and summarized by the following:

- Inferred utility junctions, documented culvert end-points, and confirmed fence-line / building infrastructures are identified on the geophysics map
- UST identified in the Figure B-1 could not be identified in C-1 due to the interference from the fence-line observed on surface, which implies the tank was removed as a tank-sized object was not detected elsewhere on survey data
- No unique features were identified which should require new sampling locations
- Utilities should be avoided during subsurface sampling activities

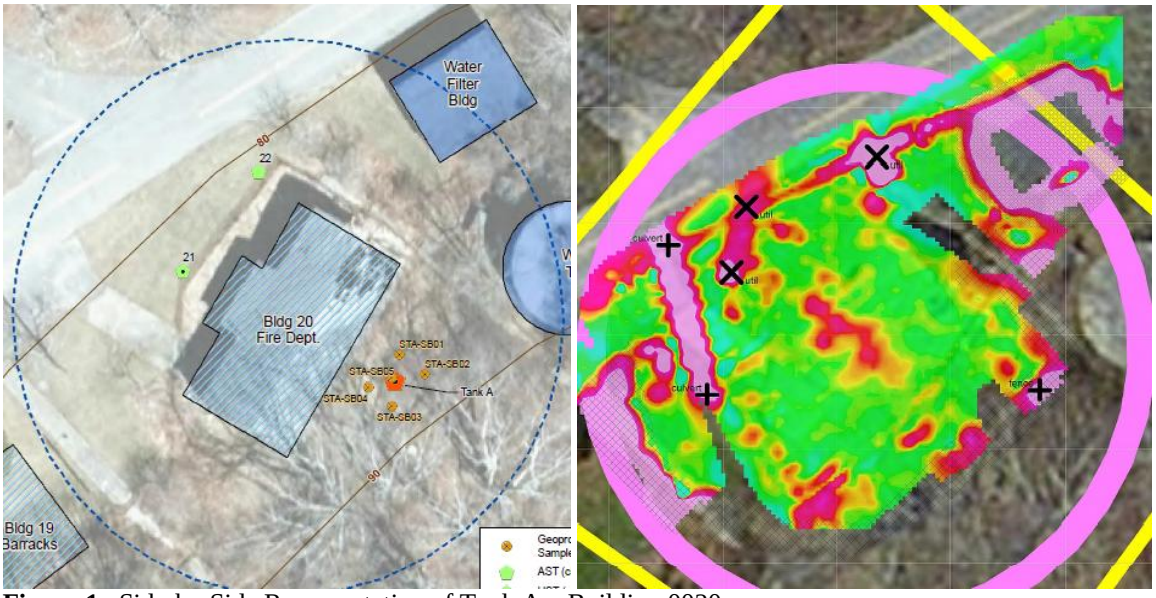


Figure 1. Side-by-Side Representation of Tank A – Building 0020

1.2 *Tank B – Building 0022*

The findings are shown in **Figure 2** (i.e. a side-by-side representation of the full-sized map Figures B-2, C-2) and summarized by the following:

- Inferred utility connections, documented manhole, speed-bump, and well, along with confirmed building infrastructure are identified on the geophysics map
- UST identified in the Figure B-2 appears to be identified in C-2, either in the form of a full-sized tank or the remnant infrastructure associated with the tank
- No unique features were identified which should require new sampling locations
- Utilities should be avoided during subsurface sampling activities

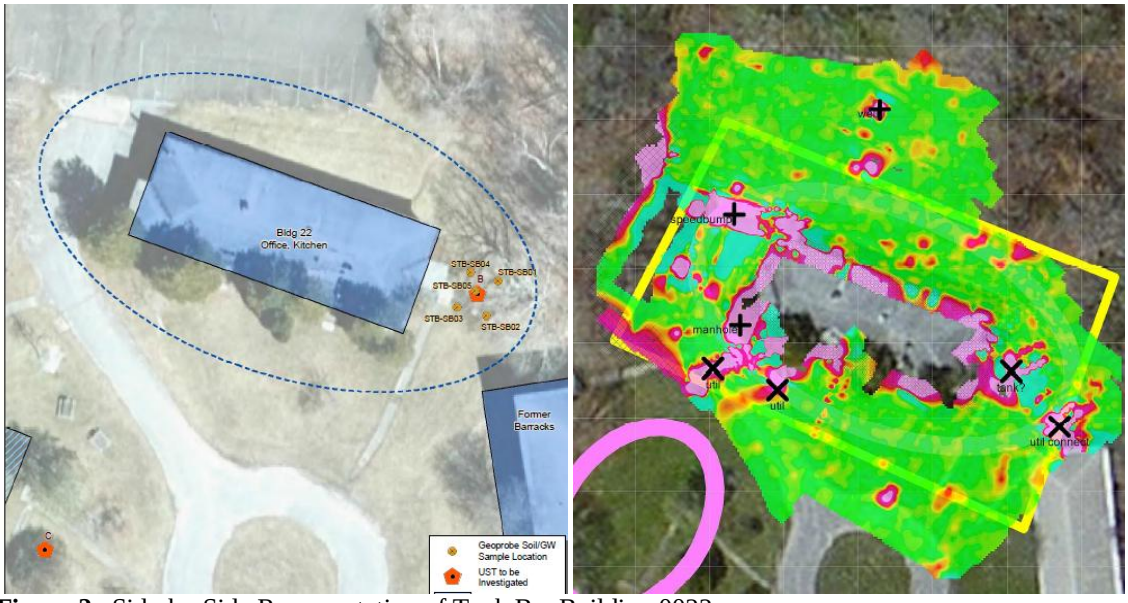


Figure 2. Side-by-Side Representation of Tank B – Building 0022

1.3 *Tank C – Building 0002*

The findings are shown in **Figure 3** (i.e. a side-by-side representation of the full-sized map Figures B-3, C-3) and summarized by the following:

- Inferred utility connections along with debris from former building infrastructure are identified on the geophysics map
- UST identified in the Figure B-3 appears to be identified in C-3, either in the form of a full-sized tank or the remnant infrastructure associated with the tank
- No unique features were identified which should require new sampling locations
- Former building infrastructure and utilities should be avoided during subsurface sampling activities as investigating theses area could damage equipment, along with potentially destroying infrastructure or harming personnel

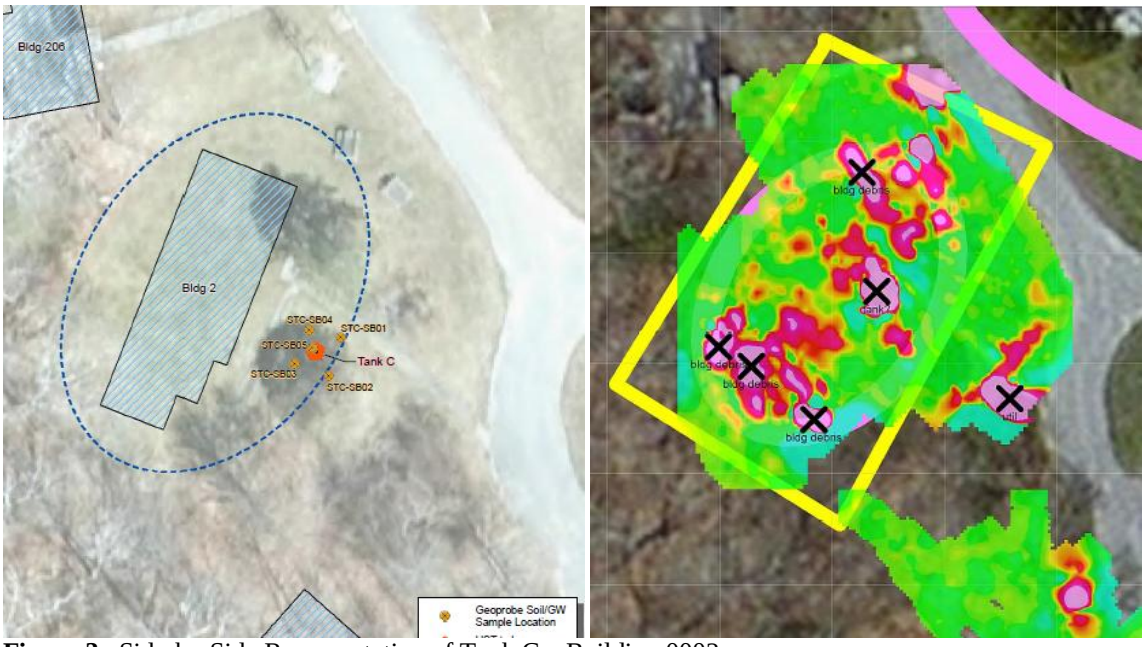


Figure 3. Side-by-Side Representation of Tank C – Building 0002

1.4 *Tank D – Building 104R*

The findings are shown in **Figure 4** (i.e. a side-by-side representation of the full-sized map Figures B-4, C-4) and summarized by the following:

- Inferred abundance of utility connections along with former building and concrete pad infrastructure are identified on the geophysics map
- UST identified in the Figure B-4 could not be identified in C-4, which implies the tank was removed and the tank was not detected elsewhere on survey data
- No unique features were identified which should require new sampling locations
- Former building infrastructure and utilities should be avoided during subsurface sampling activities as investigating theses area could damage equipment, along with potentially destroying infrastructure or harming personnel

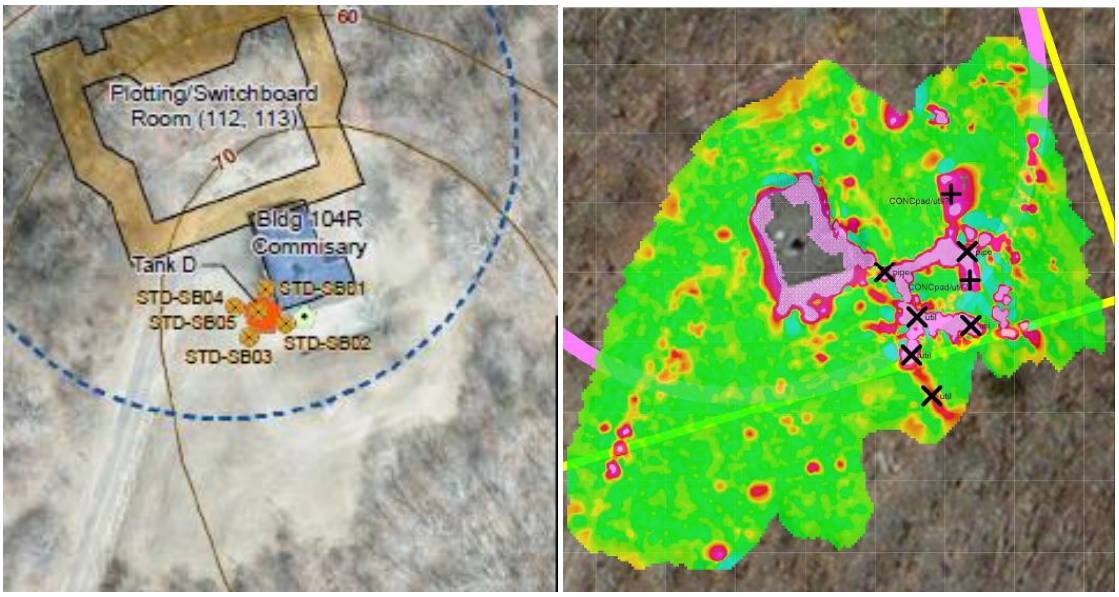


Figure 4. Side-by-Side Representation of Tank D – Building 104R

1.5 *Tank E – Building 3001*

The findings are shown in **Figure 5** (i.e. a side-by-side representation of the full-sized map Figures B-5, C-5) and summarized by the following:

- Confirmed building and fence-line interference, along with verified manholes and telephone pole surface features are identified on the geophysics map
- UST identified in the Figure B-5 could not be identified in C-5 due to the interference from the building, cars, and other metal debris observed on surface
- No unique features were identified which should require new sampling locations
- Current utilities should be avoided if subsurface sampling activities are conducted

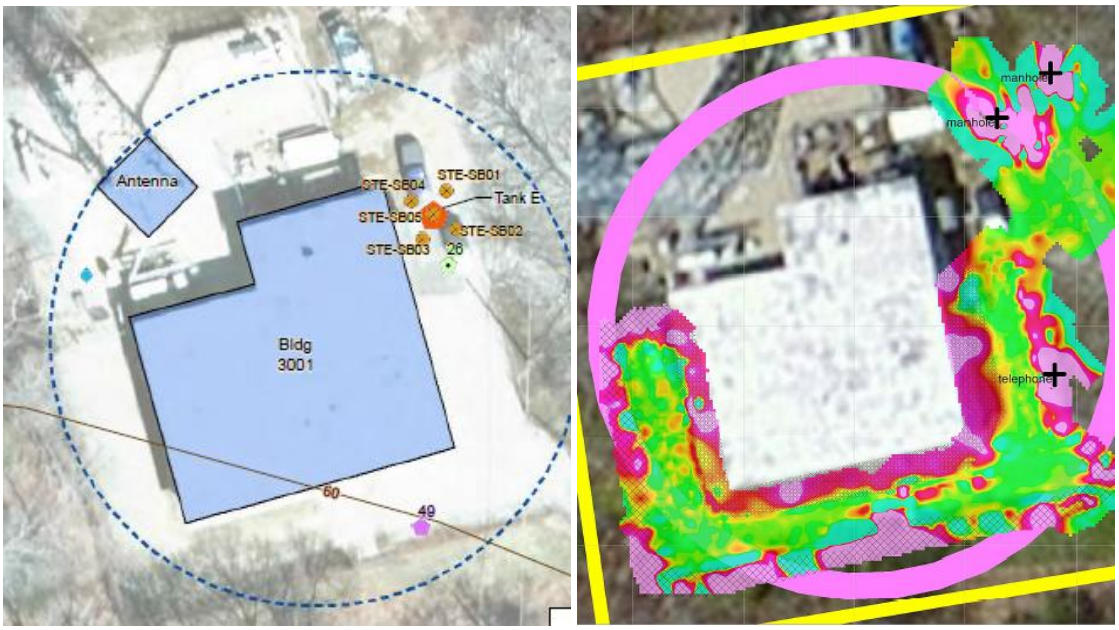


Figure 5. Side-by-Side Representation of Tank E – Building 3001

1.6 *Tank F and Tank G – Pump Houses*

The findings are shown in **Figure 6** (i.e. a side-by-side representation of the full-sized map Figures B-6, B-7, C-6) and summarized by the following:

- Due to dense vegetation and terrain, these area were assessed using AGM and no interferences (e.g., buildings, fences) are identified on the geophysics map
- USTs identified in the Figure B-6/B-7 could not be identified in C-6 due to the fact that a metallic item large enough to represent a UST could not be found and, as such, the USTs are implied to not reside within the bounded areas
- No unique features were identified which should require new sampling locations
- Current features should be avoided if subsurface sampling activities are conducted

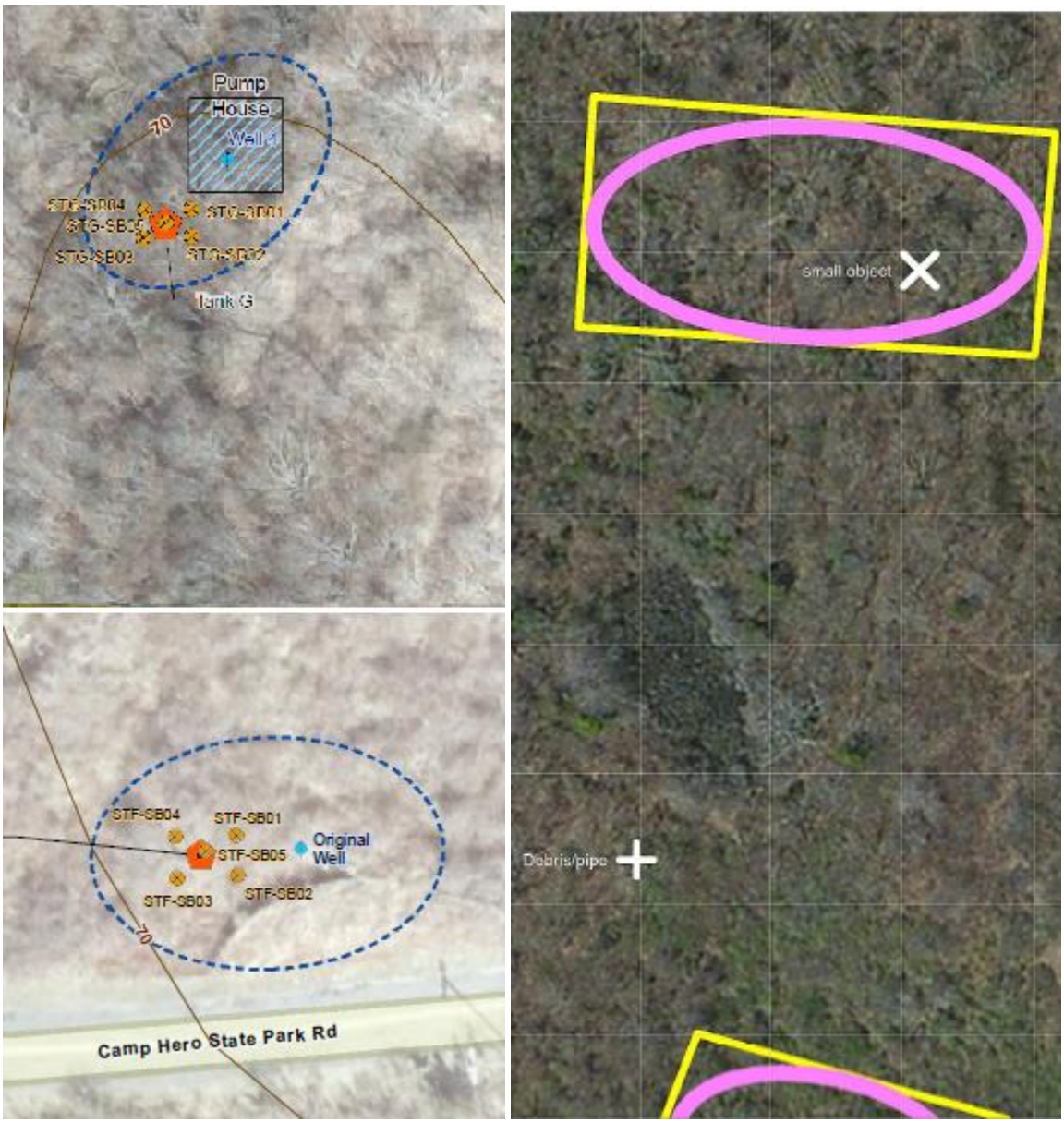


Figure 6. Side-by-Side Representation of Tank F and Tank G – Pump Houses

1.7 *Tank 35 – Fuel Pump House*

The findings are shown in **Figure 7** (i.e. a side-by-side representation of the full-sized map Figures B-8 and C-7) and summarized by the following:

- Confirmed building and fence-line interference, along with fuel piping and fuel pipeline surface features are identified on the geophysics map
- ASTs identified in the Figure B-8 could not be identified in C-7 due to the fact that a structure was an above ground tank and formerly located in a reinforced (with metal rebar) building
- Area west of the building with lots of subsurface anomalies, likely associated with the former fuel pump house infrastructure, should be avoided
- No unique features were identified which should require new sampling locations
- Current features should be avoided if subsurface sampling activities are conducted

Figure 7. Side-by-Side Representation of Tank 35 – Fuel Pump House

1.8 *Storage or Vaults – Battery 216*

The findings are shown in **Figure 8** (i.e. a side-by-side representation of the full-sized map Figures B-9 and C-8) and summarized by the following:

- Confirmed infrastructure interference, as identified on the geophysics map
- USTs identified in the Figure B-9 could not be identified in C-8, likely due to the fact the structures are closed and no longer residing as indicated in DGM data
- Not very many responses of significant size to be considered vaults or storage facilities, mostly debris or infrastructure identified
- No unique features were identified which should require new sampling locations
- Current features should be avoided if subsurface sampling activities are conducted

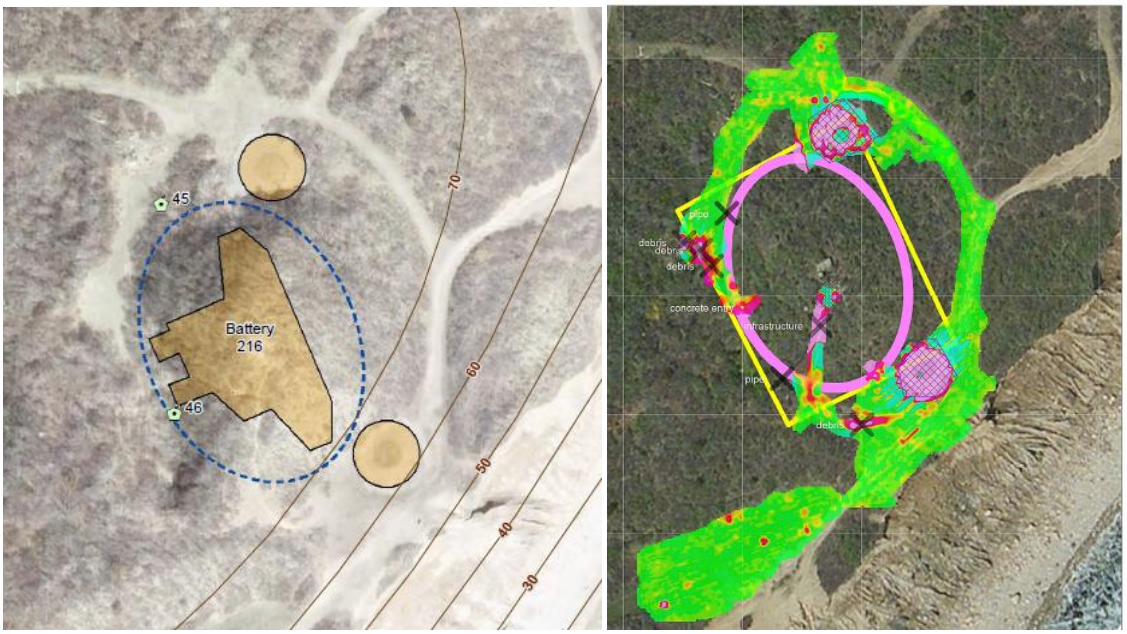


Figure 8. Side-by-Side Representation of Storage or Vaults – Battery 216

1.9 *Waste Area – Building 0113*

The findings are shown in **Figure 9** (i.e. a side-by-side representation of the full-sized map Figures B-10 and C-9) and summarized by the following:

- Two objects and corners of waste area, as identified on the geophysics map
- UST identified in the Figure B-10 could not be identified in C-9, likely due to the fact the structures are closed and no longer residing as indicated in DGM data
- Only one area identified as waste area, remainder of site anomalies too isolated
- No unique features were identified which should require new sampling locations
- Current features should be avoided if subsurface sampling activities are conducted

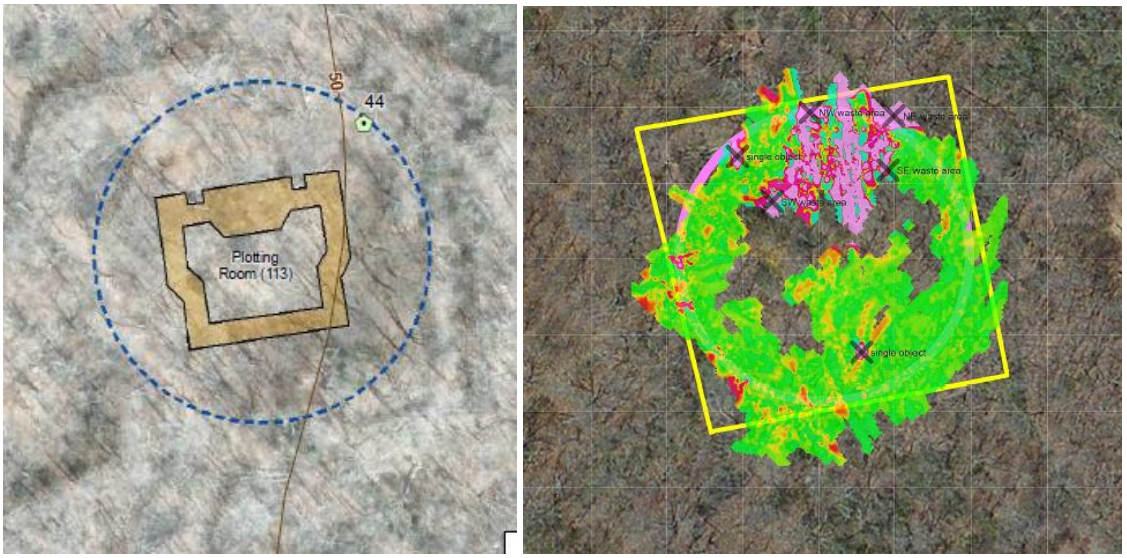


Figure 9. Side-by-Side Representation of Waste Area – Building 113

2.0 APPLICATION SUMMARY OF SURVEY RESULTS

After introducing the side-by-side maps in the previous section, the following is an over-arching summary for the application of the geophysical survey results during sampling activities:

1. Avoid investigating over top of any areas marked-out as infrastructure related (e.g., utilities, buildings, debris) or fuel related (e.g., pipelines, USTs, ASTs);
2. Tank A (Building 0020), Tank D (Building 104R), Tank E (Building 3001), Tank F, Tank G, and Storage Vault (Battery 216) areas *may consider avoiding sampling* as no indications of USTs or other fuel storage within the areas assessed by geophysics;
3. Tank 35 (Building FPH) areas *should consider modifying sampling* as no direct indications of USTs or other significant fuel storage facilities were clearly outlined, but currently standing infrastructure (e.g., building, fencing) and debris were identified to avoid, within the areas assessed by geophysics which overlapped areas expected to contain storage thus requiring careful avoidance;
4. Tank B (Building 0022), Tank C (Building 0002), and Waste Area (Building 113) *should consider maintaining similar sampling patterns* as indications of USTs, UST framework, waste area, and debris were indentified within the areas assessed by geophysics which overlapped areas expected to contain these remnant features; and
5. As a footnote, portions of the Storage Vault (Battery 216) were avoided due to the special plant and vegetation species identified by the AECOM specialist.

The data review results are predicated on sampling in areas deemed necessary while circumventing drilling activities around objects identified within the geophysical survey maps. Anomaly avoidance procedures should be strictly adhered to during sampling activities.

3.0 CONCLUSIONS

In conclusion, areas have been recommended to be separated into three simple categories:

1. Discontinue further sampling due to lack of indications;
2. Modify sampling strategy due to desired sampling locations deemed areas to avoid; and
3. Maintain sampling strategy due to indications of expected remnant features.

If you have any questions or require additional information, please contact the undersigned at your convenience.

Brian S. Brunette, Professional Geophysicist (PGP) in CA & TX

Senior Technical Lead, Munitions Response Geophysics; AECOM

804.873.7517;

brian.brunette@aecom.com

ATTACHMENT A:

LOGBOOK ENTRIES FROM FIELD GEOPHYSICS TEAM

May 17, 2016 Camp Hero

Weather: Partly Cloudy with a chance of rain in the late afternoon. High 65°F Low 48°

Crew: Eric Celebrezze (AECOM)
Matt Emmert (URS)

07:00 - Site Safety Brief / Meet with COR & Veg Crew.

07:30 - Set up base station and assemble EM-61.

08:00 - Starting to warm up EM-61 coils. Equipment shake-out.

08:50 - Setup latency test strip.

08:52 - Conducting a latency ~~test~~.
File: 0517lat
Battery: 12.30V

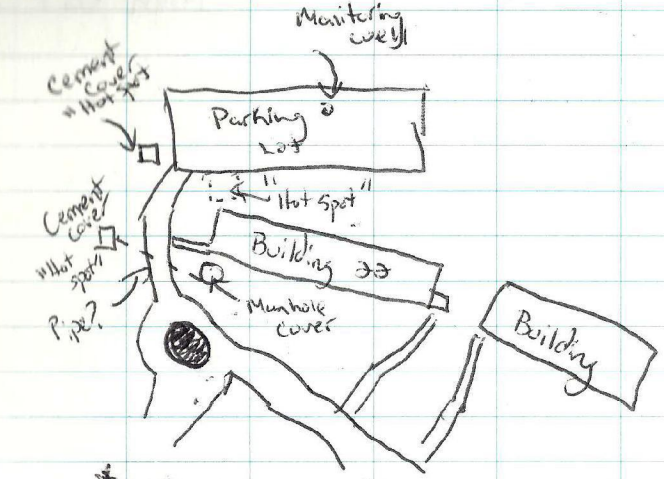
09:08 - Arrive at Bldg 22 for DGM survey.

09:15 - Starting survey
File: 0517BLD22
Battery: 12.30V

17:30 - Finished DGM survey. Three to four hotspots existed that we could audibly hear and at least 1 pipe run was heard while conducting the survey. See Map/Sketch

Rite in the Rain

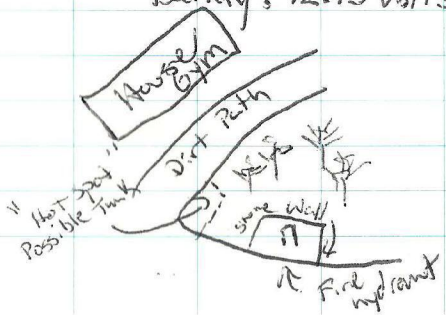
May 17, 2016 Camp Here



10:55 - Starting DGM survey of the area were building 2 on the map was located. Trees are in the areas, survey will be a bit choppy in coverage to avoid obsticles

File: 0517 B162

Battery: 12.15 Volts



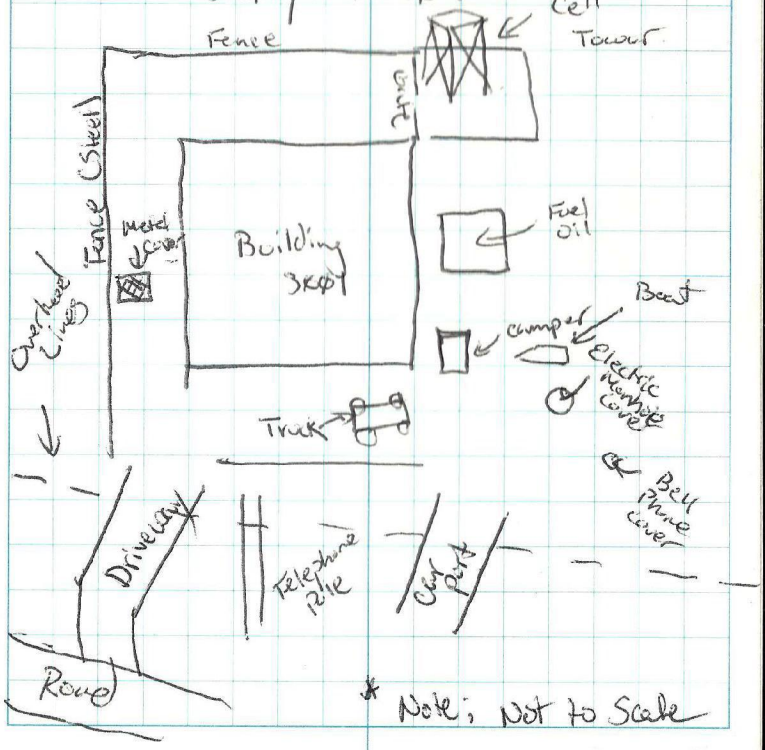
May 17, 2016 Camp Here

17:50 - Arrive at Bldg 30001 were there is a radio tower in the back corner. Switching the batteries in the EM-61. There is also pockets of cultural debris on the property. A steel fence surrounds the compound.

1955 - Starting DGM survey.

File: 0517 cop

Battery: 13.30 V



Rite in the Rain

May 17, 2016 Camp Hero

14:30 - At the fuel pump house to check out veg clearance. Talked to Nicole and suggested a few more clearance locations for optium DGM survey results.

14:55 - At the base station conducting a pm latency test.

File: 0517latp

Battery: 13.30 volts

15:00 - Breaking down GPS base station and EM-61 equipment.

15:30 - Left site to process data

END OF REPORT

5/17/16

5/17/16

May 18, 2016 Camp Hero

Weather: Partly Cloudy with a 10% chance of rain. High of 61°F and a low of 47°F. Low UV index.

Crew: Eric Celebrezze (AECOM)
Matt Emmert (URS)

07:15 - Site Safety Meeting

08:00 - Started to setup GPS base station

08:25 - Warming up EM-61 for AM latency tests.

08:40 - Starting AM latency test

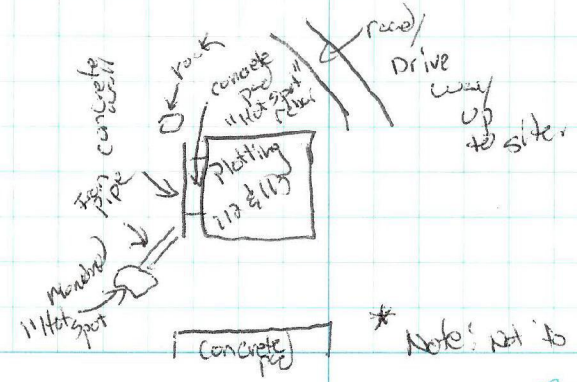
File: 0518latam

Battery: 12.45V

08:52 - At Plotter 112 & 113 for DGM survey.

File: 0518.Plot 112

Battery: 12.45 Volts



* Note: Not to Scale.

Rite in the Rain

May 18, 2016 Camp Hero

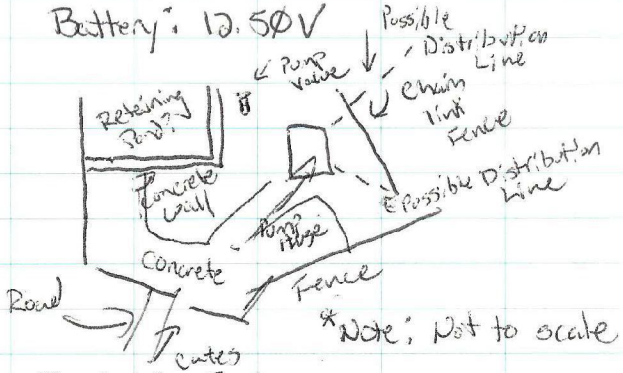
11:50 - Walked Plotting Room 113 to check for veg removal of site. Marked off areas that need to be removed more.

12:10 - Meet with Nicole to explain what veg removal team needs to do in order to conduct DGM survey.

13:15 - At the fuel pump house to begin DGM survey.

File: 0518Fuel

Battery: 12.50V



*Note: Not to scale

File: 0518Fuela

Battery: 12.50V

This file was created due to GPS turning off sometime during the DGM survey.

14:50 - At building 3 site to fill in more DGM survey.

File: 0518Bld2

Battery: 12.30V

May 18, 2016 Camp Hero

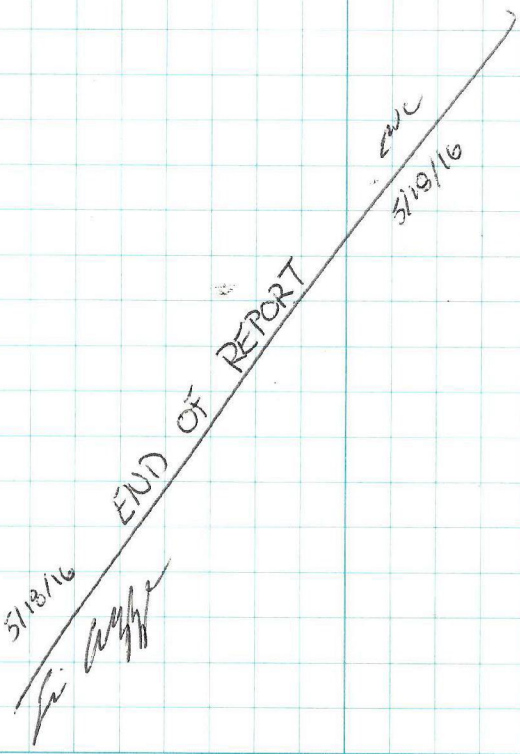
16:04 - Starting closing (pm) latency test.

File: 0518latpm

Battery: 12.15V

16:06 - Starting breakdown of equipment.

16:30 - Leaving site to process/download data.



Rite in the Rain

May 19, 2016 Camp Hero

Weather: Cloudy with early AM rain. High of 61°F. Low of 47°F. Low UV index.

Crew: Eric Celebrezze (AECOM)
Matt Emmert (URS)

07:00 - On site for site safety meeting.

07:30 - Setup the GPS base station and start EM-61 startup.

08:00 - Warming up coils for about 15 minutes for AM latency test.

08:15 - Morning latency test
File: 0519 latam
Battery: 13.60V

08:25 - At Plotting 113 doing site walk before starting survey.

08:35 - Starting DGM survey
File: 0519 Plot 113a
Battery: 13.60V

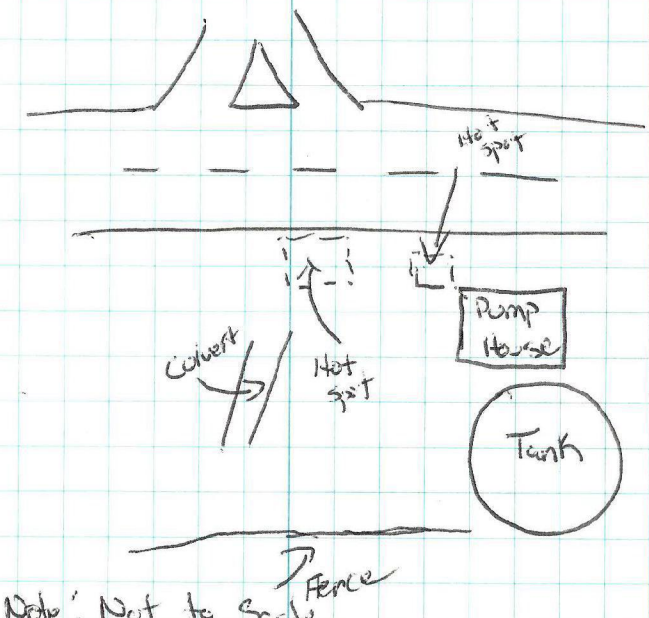
10:10 - Finished First Section of Plotting 113 Called Brian about previous days data. Only Bldg 2 additional has been processed.

10:30 - Used GPS to determine the area provided to be DGM Plotting 113 is not correct. Plot 113 is now located using the centroid point.

May 19, 2016 Camp Hero

10:30 - Veg removal crew was called to come to area and remove veg around the Bunker of 113. Top of Bunker will be mag/flag. for anomalies.

11:40 - At Fire house to conduct DGM survey to locate tanks.
File: 0519Fire
Battery: 13.30V



* Note: Not to Scale.

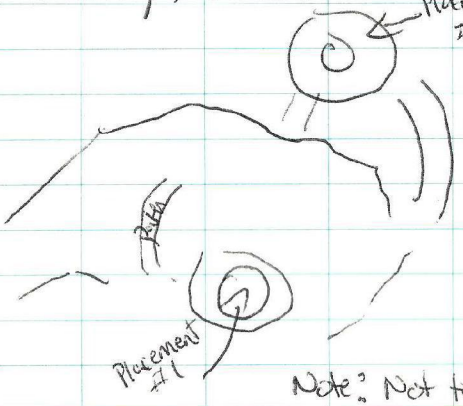
Rite in the Rain

May 19, 2016 Camp Hero

13:00 At Battery 216 for DGM survey.

File: 0519 216

Battery: 12.15V



Note: Not to Scale

14:40 - Stopping DGM survey at Battery 216 to meet Nicole at Plotting 213 AOC to check on veg clearance.

15:15 - Going to conduct a DGM survey on an outer and inner boundry of where the EM-61 can collect data at Plotting Room 113.

File: 0519 Plot 113 ~~Room~~

Battery: 12.00V

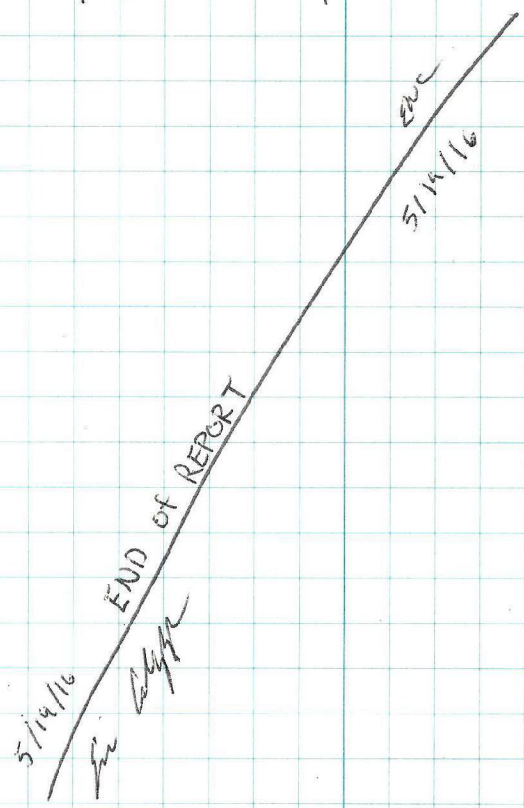
15:45 - Conducting PM latency test

File: 0519 latpm

Battery: 12.00V

16:00 - Breaking down GPS base station and packaging up all equipment.

16:30 - Heading out / off-site to download and preprocess todays data.



Rite in the Rain

May 20, 2016 Camp Hero

Weather; Cloudy with a High of 60°F and a low of 47°F. Low UV Index today Turning to Mostly Sunny.

Crew; Eric Celebrezze (AECOM)
Matt Emmert (URS)

07:00 - Site Safety Meeting

07:30 - Setting up GPS base station and assemble EM-61 MK2.

07:45 - Started warming up EM-61 coils for morning latency test.

07:55 - Starting morning latency.
File: 0520 latam
Battery; 12.60 V

08:00 - Heading to Plotting Room 113 to finish DGM survey in that area. Tree cover will be a concern for data collection and we will increase overlap and break into small pieces to achieve maximum coverage.

08:05 - Starting Plotting Room 113
File; 0500 Plot 113
Battery; 12.60V

11:15 - At Battery 216 to finish up DGM survey started yesterday
File; 0520 Bat 216
Battery; 12.60V

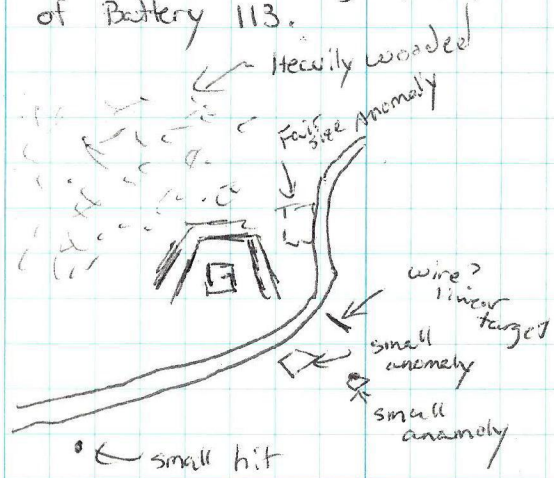
May 20, 2016 Camp Hero

12:02 - Finishing another front section of Battery 216.
File; 0520 Bat 216a
Battery; 12.45 V

12:35 - All areas open to DGM survey have been collected at Battery 216.

12:45 - At the base station / latency test strip to close out DGM survey.
File; 0520 latpm
Battery; 12.45 V

13:00 Started Analog geophysical survey of Battery 113.

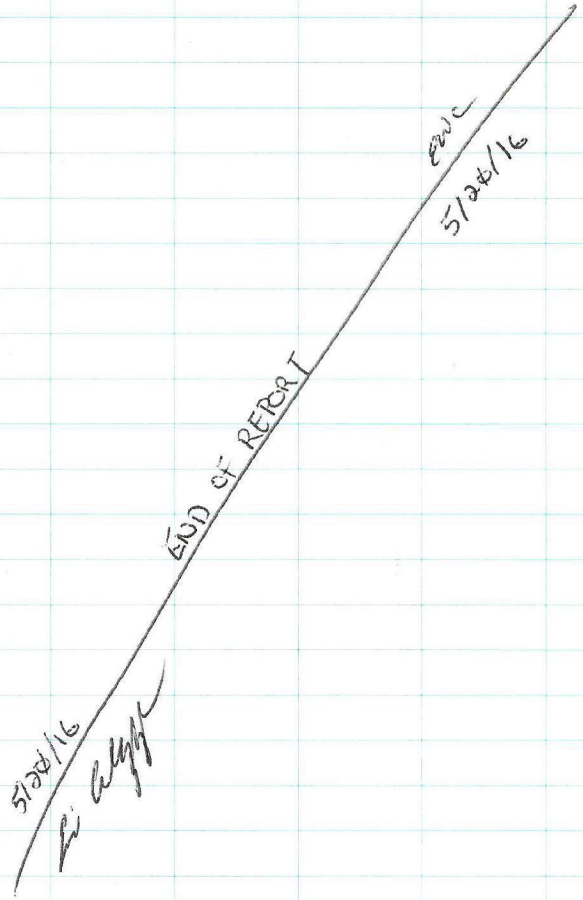


16:00 - Started to break down gps base station.

Rite in the Rain

May 20, 2016 Camp Hero

16:30 - Off-site to downtown and pre process data.



Weather: High of 67°F and low of 51°F. Partly Sunny with a low UV index. 17% Chance of Rain in the afternoon.

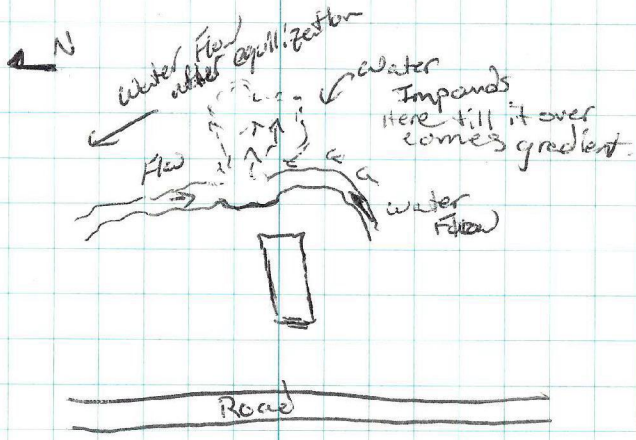
Crew: Eric Celebrezze (AECOM)
Matt Emmert (URS)
Nicole Schulman (URS)

07:00 - Morning Site Safety Meeting.

07:15 - setup GPS base station

07:30 - GPS is initialized and ready for relocates.

07:40 - went to GPS culvert/stream sediment however could not get a GPS lock in the stream to take an accurate measurement.

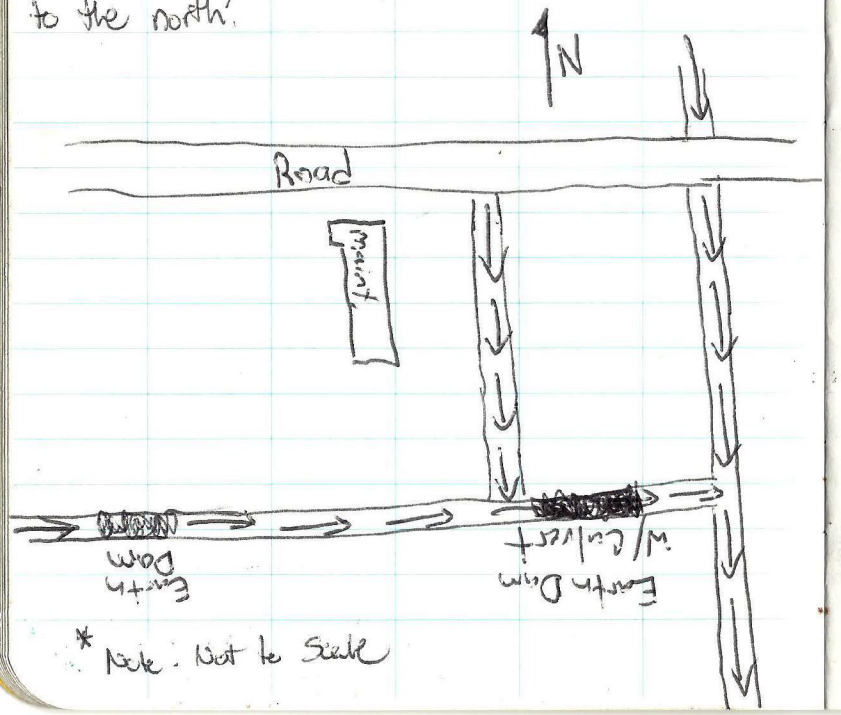


* Note: Not to scale.

Rite in the Rain.

May 23, 2016 Camp Hero

08:50 - The general flow of the stream is to the north/~~west~~ behind the maintence building. However, directly behind the building is a slight elevation that heads to the south. Under storm conditions it is safe to assume the water impounds inbetween these two areas. A lack of plant life supports this assumption of water impoundment. It is also probable that once the gradient has been overcome by the impounded water flow resumes to the north.

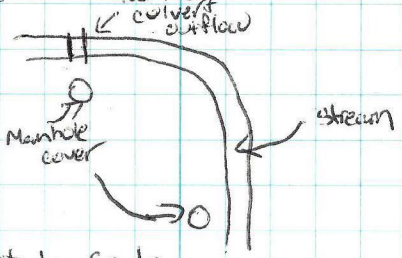


* Note: Not to Scale

May 23, 2016 Camp Hero

09:50 - GPS well near Battery 113. Found pipe coming out of the ground well concrete debris around it.

10:30 - GPS Two (2) wells near the chlorinae contact tanks.



*Note: Not to Scale.

12:00 - Start Analog Survey of Battery 216. Marked out 3 additional locations of possible tanks.

13:00 - Conducting survey of AGP4. Found a pipe and what used to be a manhole that has eroded away.

14:00 - Nicole Schulman offsite.

15:00 - Removing V4 off list as it is concrete/rebar.

15:29 - B3 is Manhole cover Removing from list.

15:39 - E3 is Manhole cover Removing from list. E1 is telephone pole with wires. Removed.

Rite in the Rain

May 23, 2016 — Camp Itro.

16:37 - A10 was fence and removed from list

16:45 - Breaking down GPS base station and packing away equipment.

GPS Points from survey

ID	Northing	Easting
Chlorine Well	334016.166	1572416.264
Chlorine Well-2	334417.019	1572437.319
Well @ Pad 113	334943.167	1573335.979
Pipe 1	333456.271	1570156.840
Pipe 2	333447.659	1570150.304

1700 - off-site

END OF REPORT

5/23/16

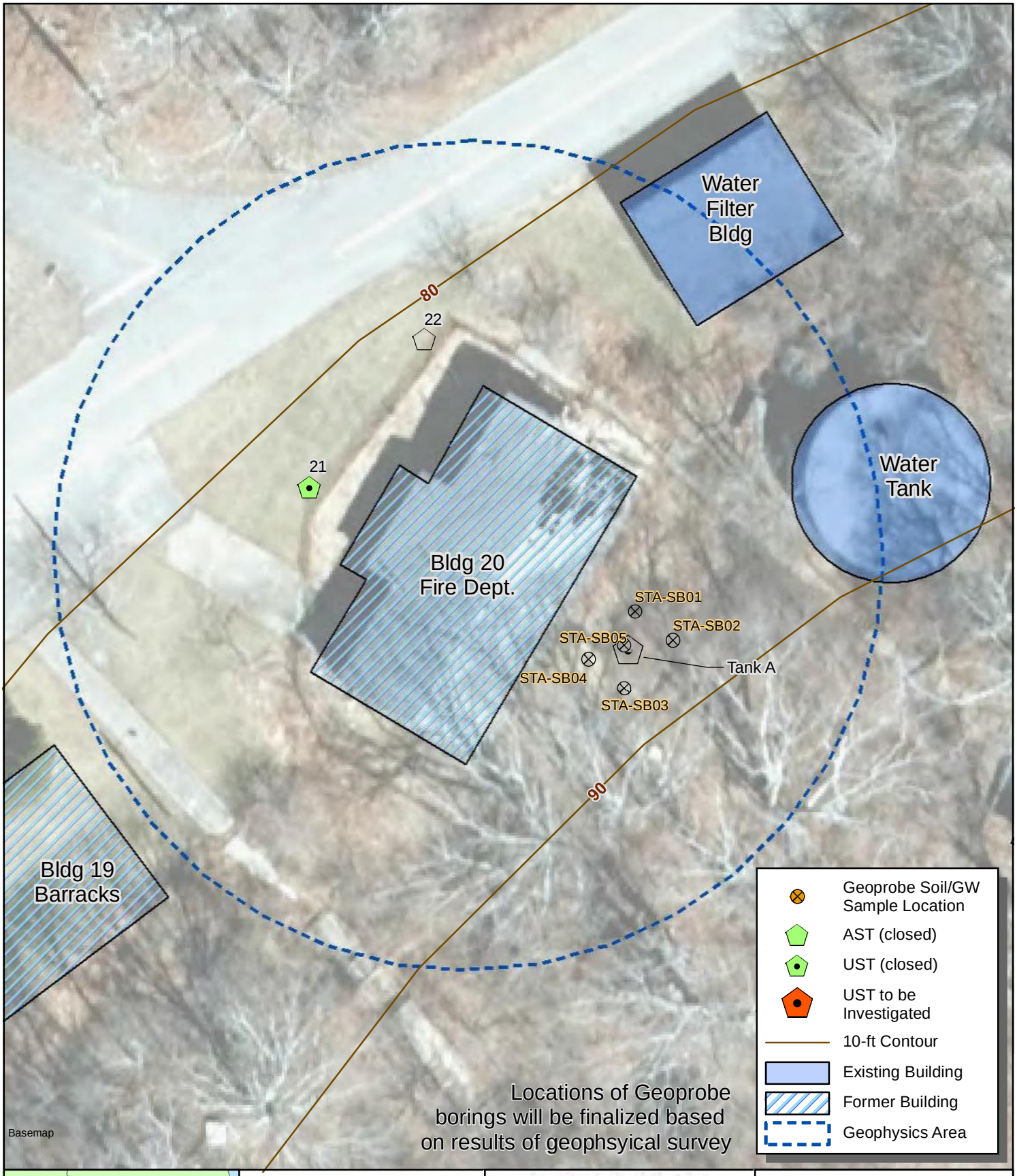
EWC

5/23/16

Rite in the Rain

ATTACHMENT B:

EXCERPTED WP MAPS SHOWING PLANNED SAMPLING LOCATIONS and EXPECTED LOCATIONS OF INSTALLATION INFRASTRUCTURE



MAP LOCATION

N
W
E
S

0 12.5 25
Feet

1 inch = 25 feet

NAD 1983 StatePlane Long Island FIPS 3104

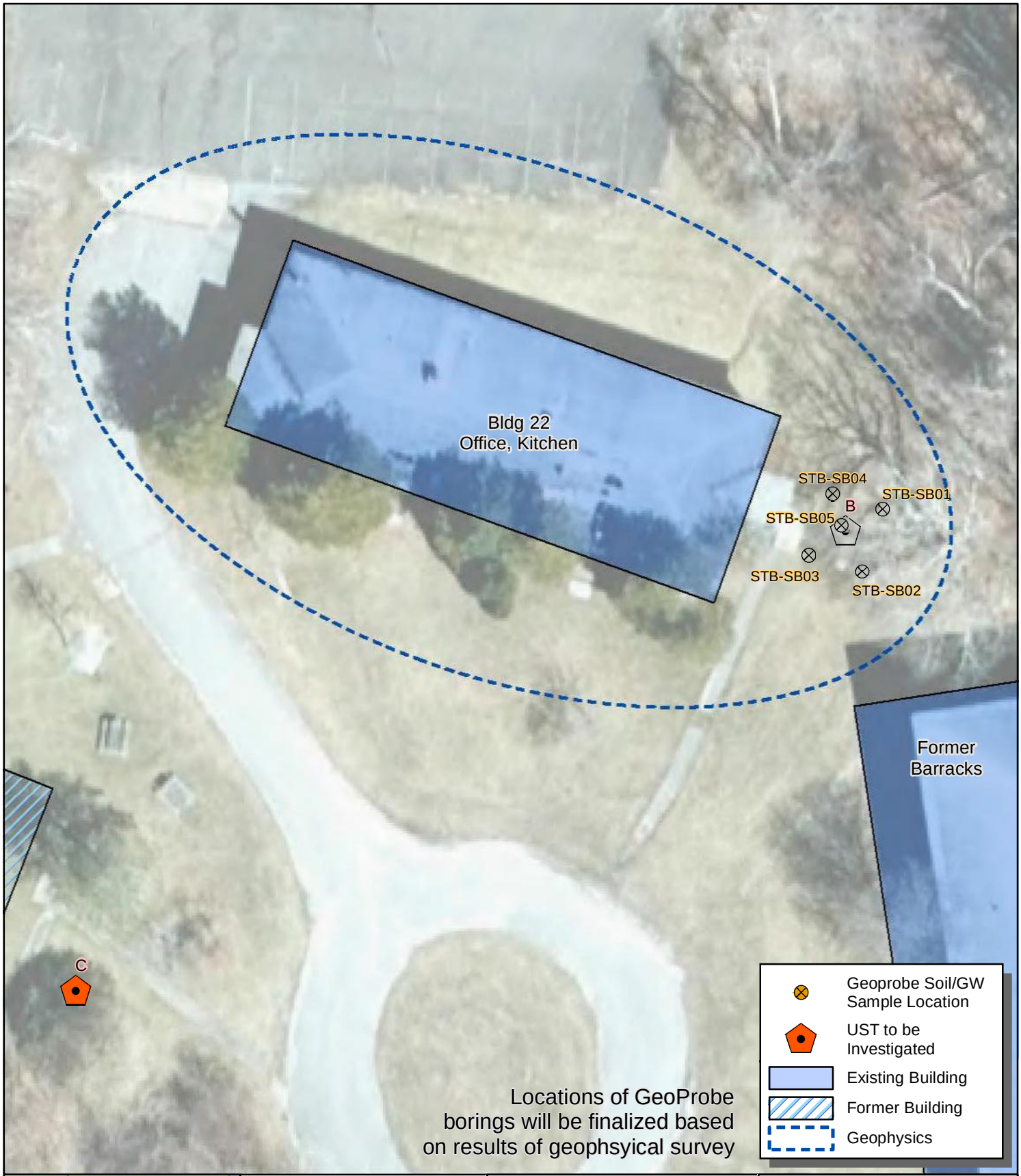
AECOM
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Building 20 (Tank-A)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-7**

5/2/2016 1:300 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-7 Bldg 20 - Tank A.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 12.5 25 Feet

1 inch = 25 feet

NAD 1983 StatePlane Long Island FIPS 3104

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Building 22 (Tank B)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-8**

5/2/2016 1:300 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-8 Bldg 22 - Tank B.mxd (USCHL1FP002\Data\Library\Gisprojects\)

MAP LOCATION

N
W
E
S

0 10 20 Feet

1 inch = 20 feet

NAD 1983 StatePlane Long Island FIPS 3104

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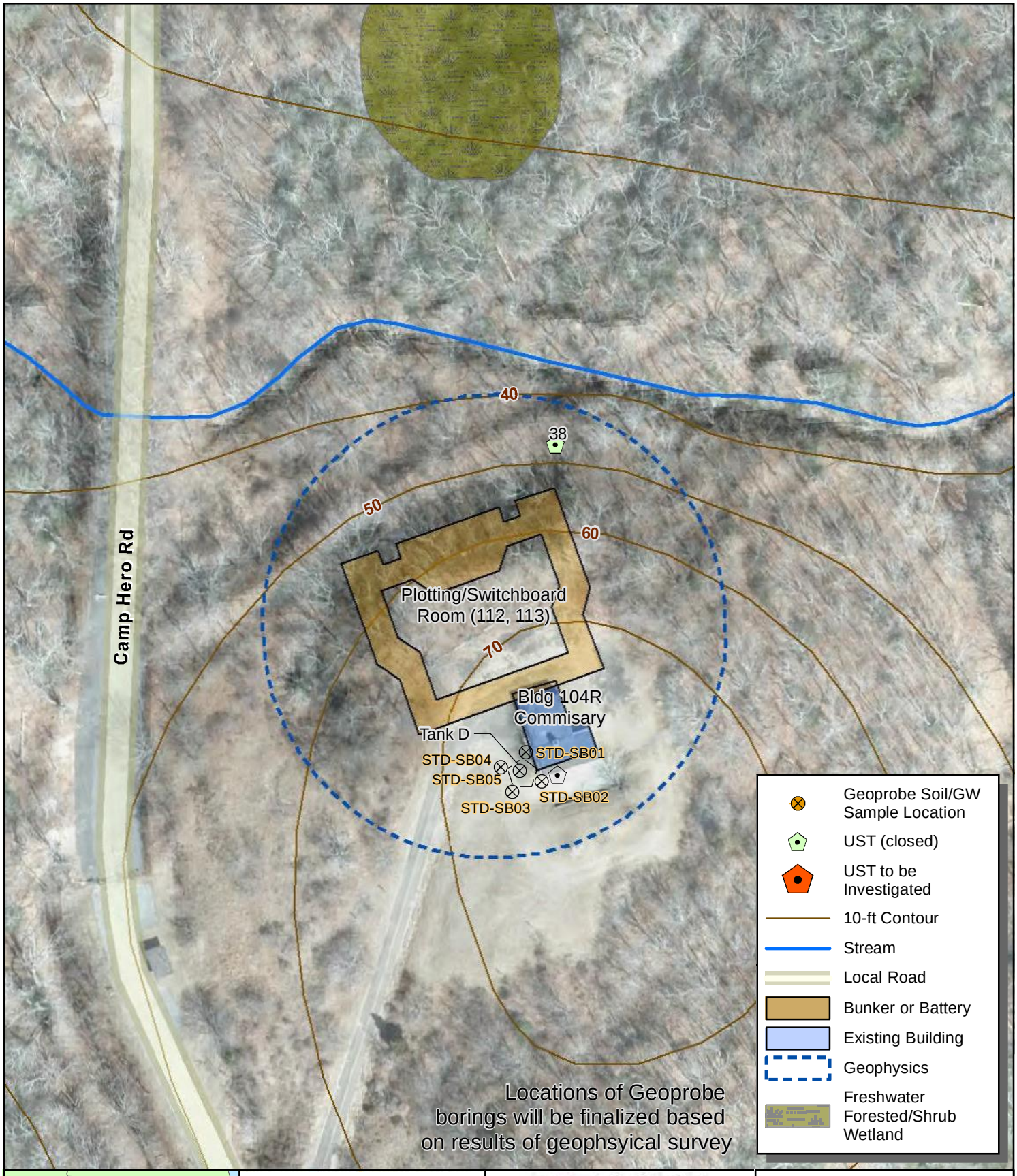
Building 2 (Tank C)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-9**

5/2/2016 1:240 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-9 Bldg 2 - Tank C.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 40 80

Feet

1 inch = 80 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM

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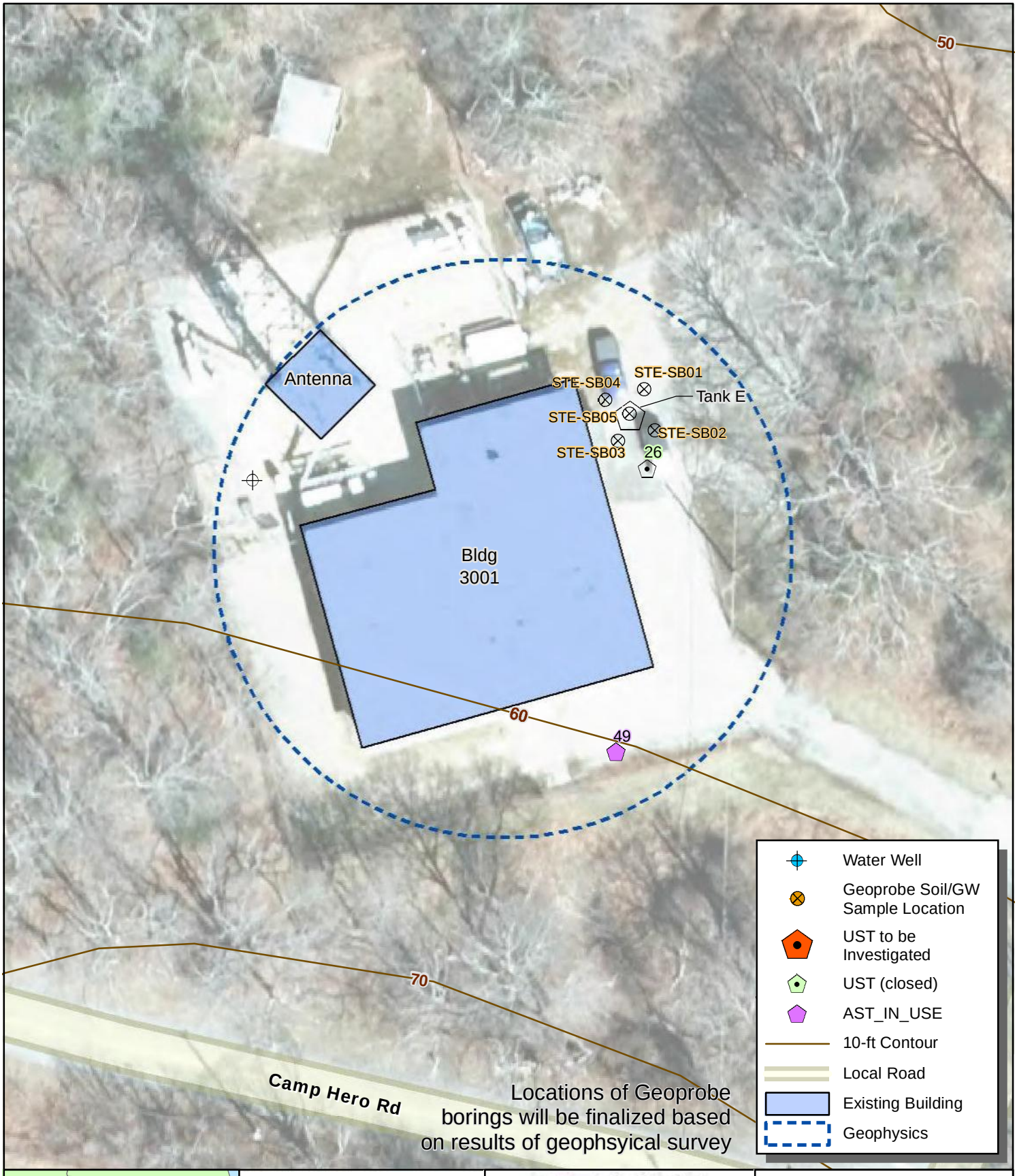
Building 104R (Tank D)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-10**

5/2/2016 1:960 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-10 Bldg 104R - Tank D.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 15 30
Feet

1 inch = 35 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM
3101 Wilson Blvd., Suite 900
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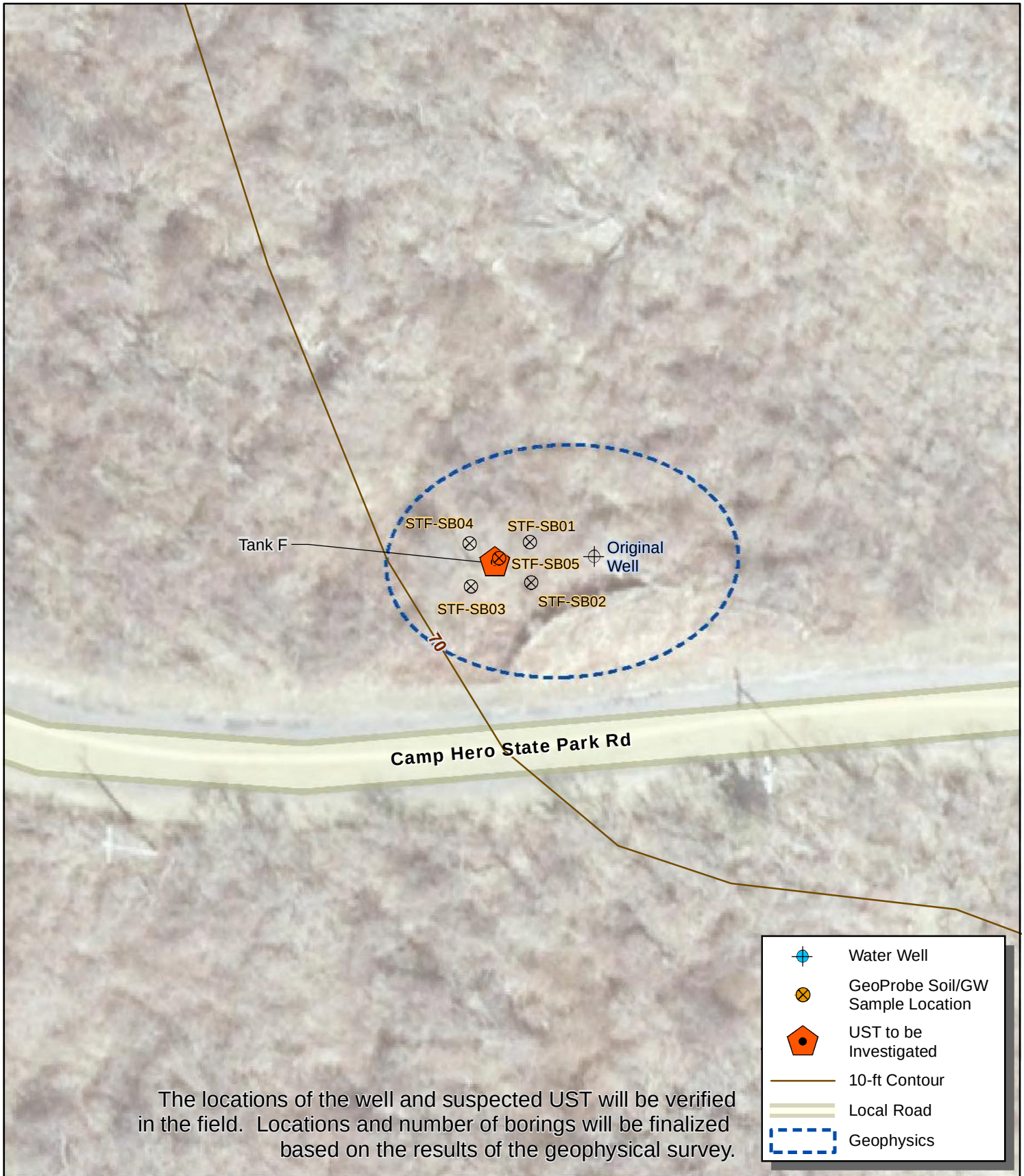
Building 3001 (Tank E)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-11**

5/2/2016 1:420 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-11 Bldg 3001 - Tank E.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S
0 15 30
Feet
1 inch = 30 feet

NAD 1983 StatePlane Long Island FIPS 3104

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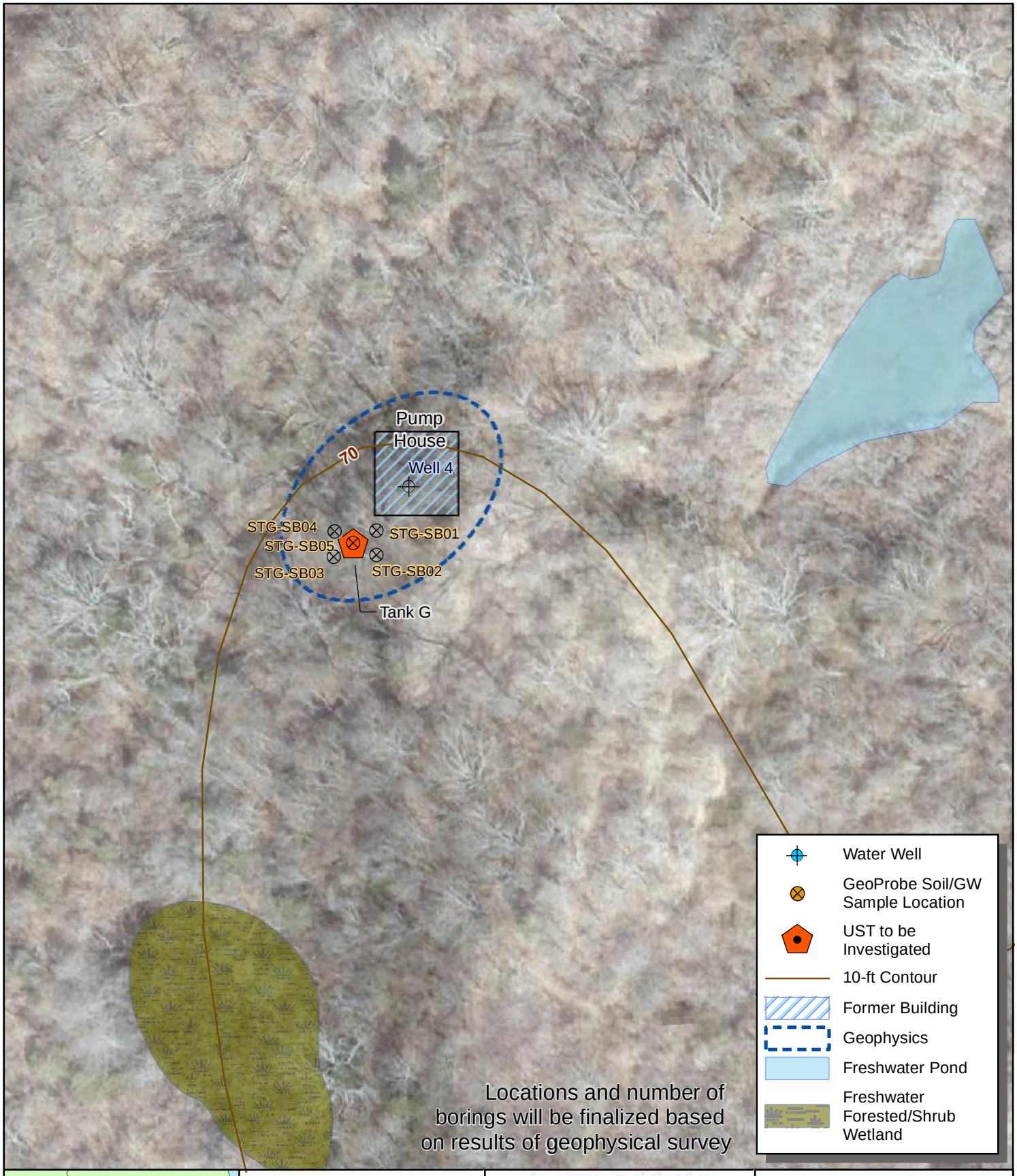
Pump House (Tank F)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-12**

5/2/2016 1:360 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-12 PumpHouse - Tank F.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W E
S

0 25 50
Feet

1 inch = 55 feet

NAD 1983 StatePlane Long Island FIPS 3104

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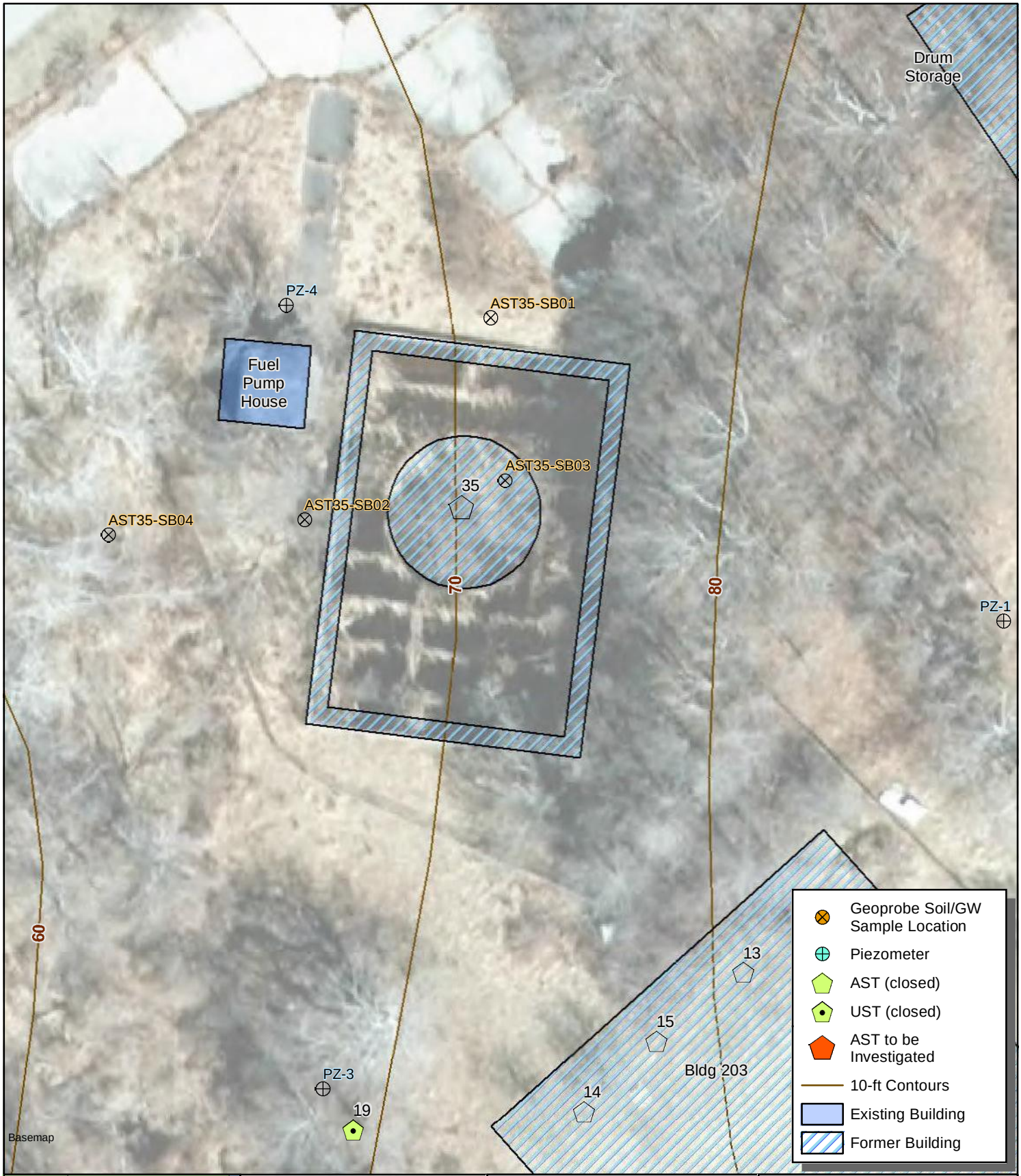
Pump House (Tank G)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-13**

5/2/2016 1:660 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-13 PumpHouse - Tank G.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 15 30

Feet

1 inch = 30 feet

NAD 1983 StatePlane Long Island FIPS 3104

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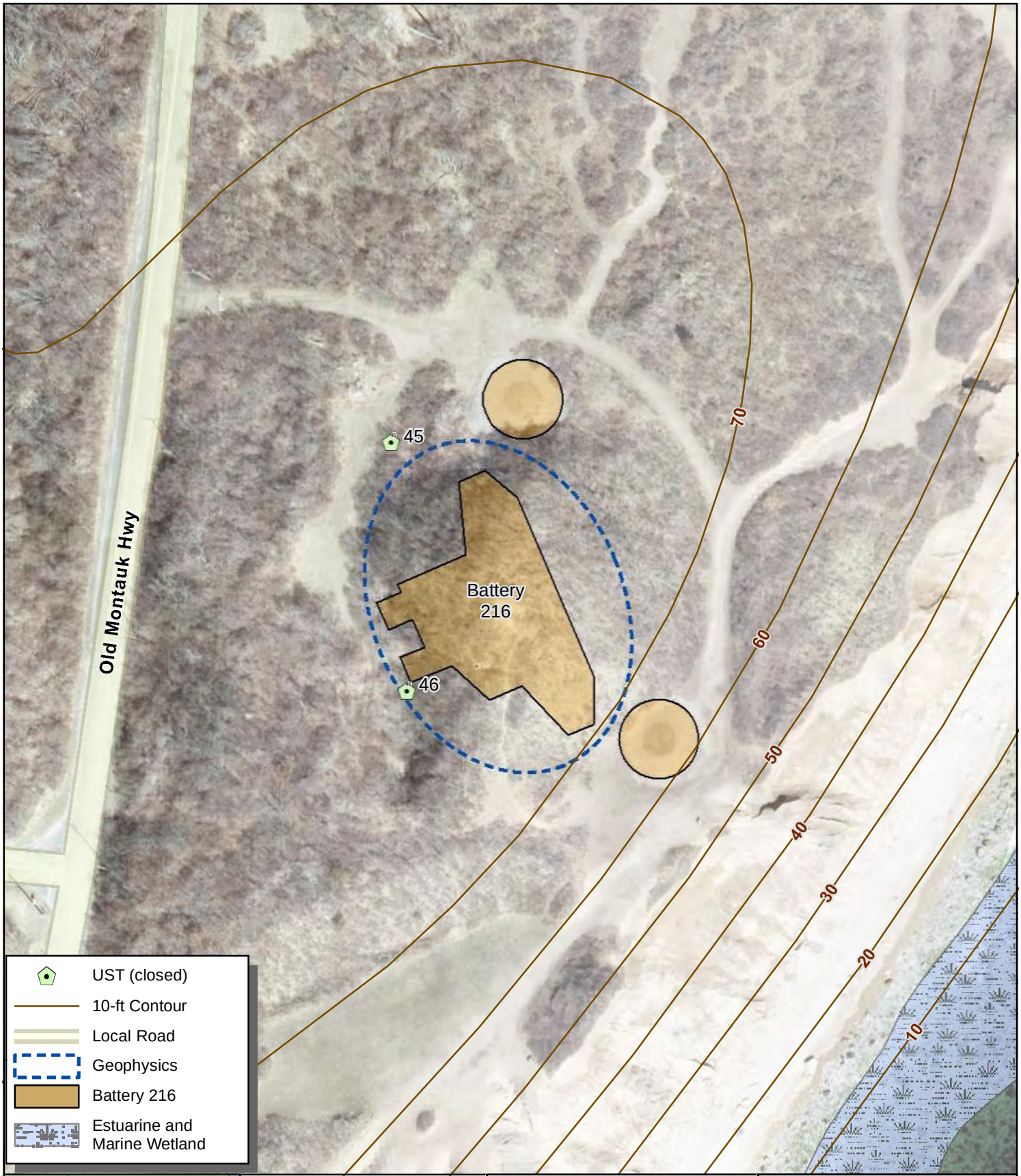
AST-35 (H-13) Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-5**

5/2/2016 1:360 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-5 AST 35.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 37.5 75

Feet

1 inch = 75 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM
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Arlington, VA 22201
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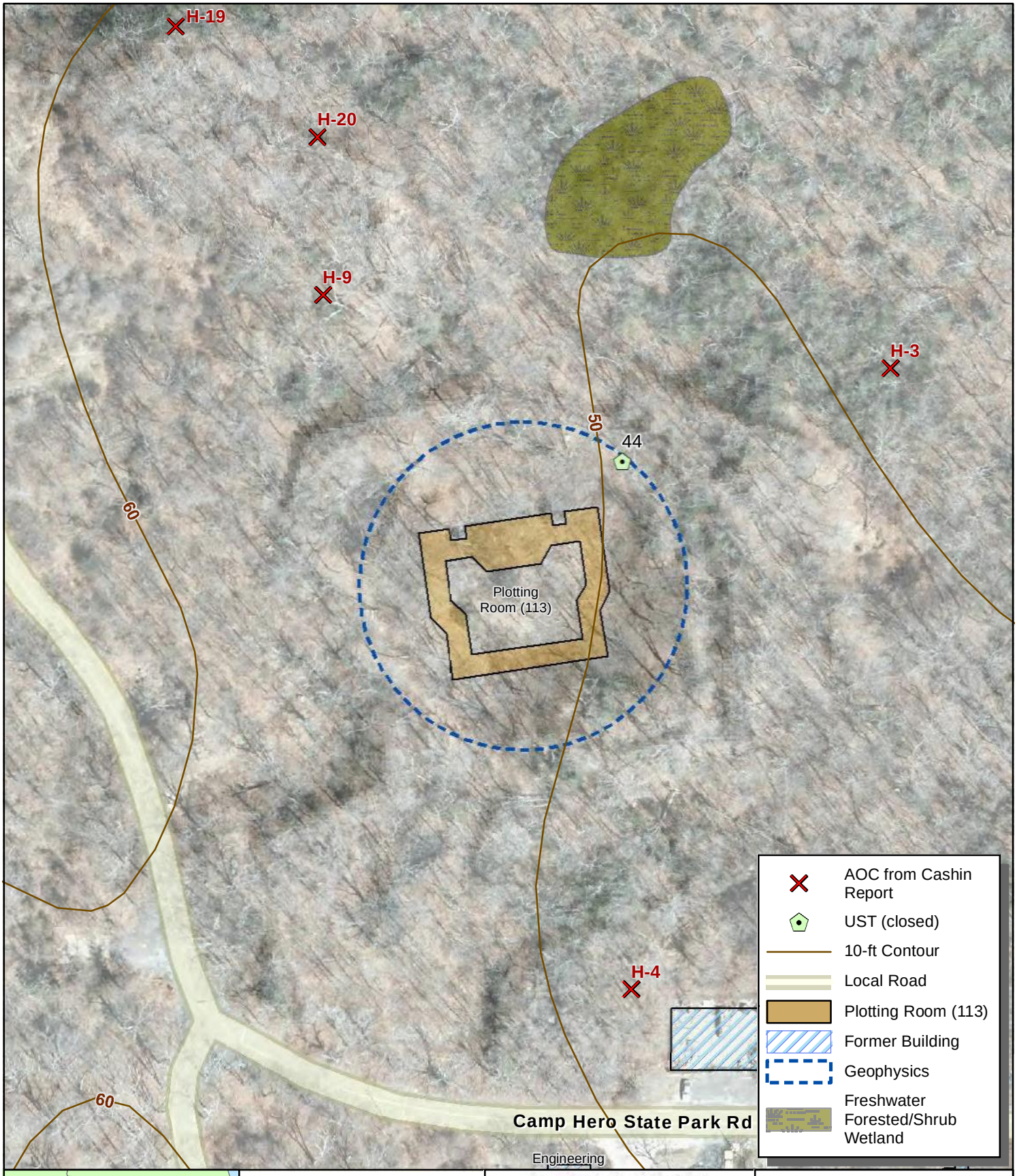
Battery 216
Phase 1 RI Geophysical Survey Area

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-40**



MAP LOCATION

N
W E
S

0 50 100 Feet

1 inch = 100 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
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Plotting Room 113
Phase 1 RI Geophysical Survey Area

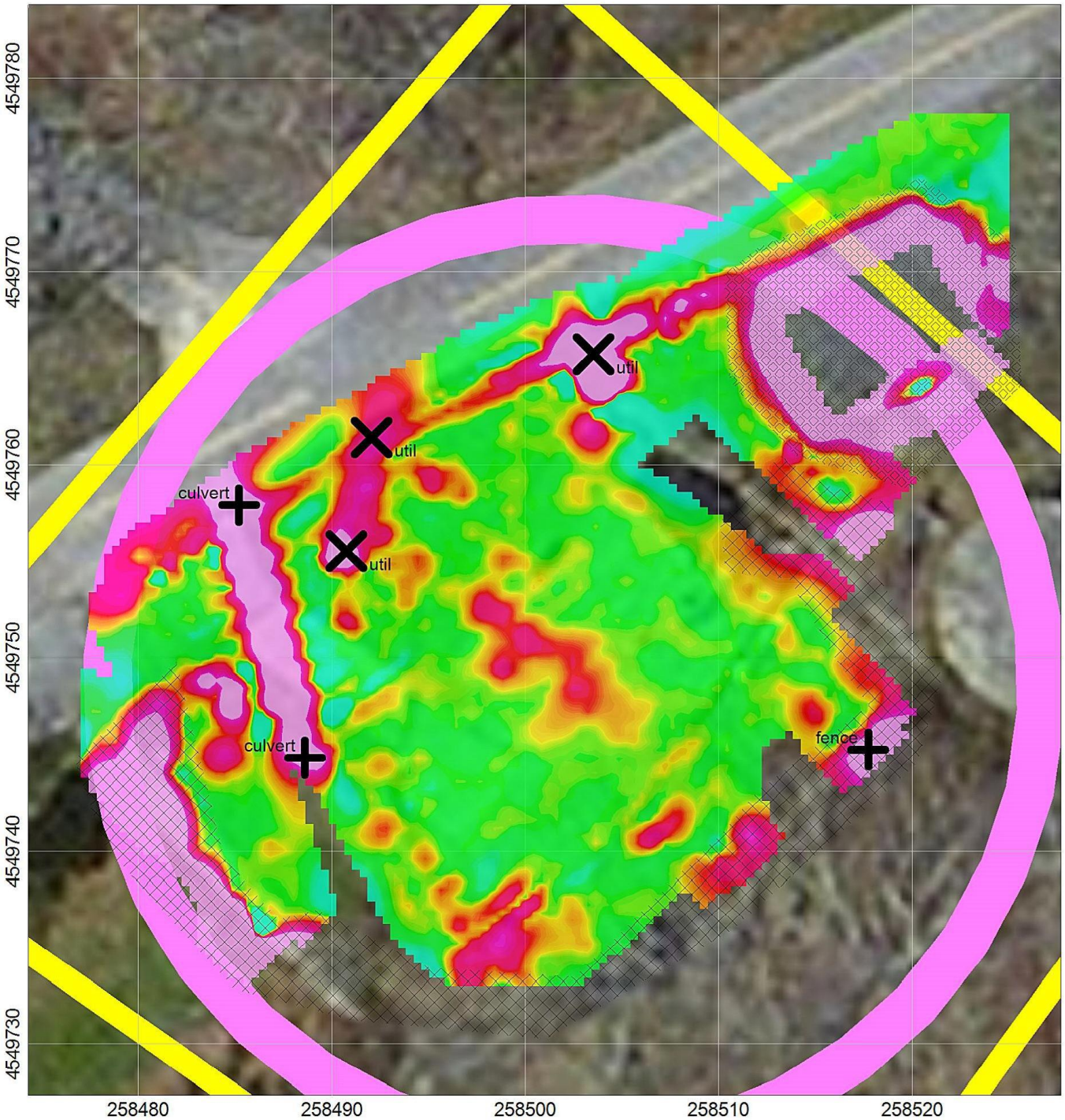
Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-41**

5/2/2016 1:1,200 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-41 Plotting Room 113.mxd (USCHL1FP002\Data\Library\Gisprojects\)

ATTACHMENT C:

METAL DETECTION SUMMARY FIGURES



Building 20 - (Tank A) MAP

Buried Metal Detection Map

LEGEND

- Effects from Building (brick cross-hatch)
- Effects from Fence / Deb (diamond cross-hatch)
- + label — above ground feature (sign w/ label)
- X label — below ground feature (sign w/ label)
- search radius and squared off work area

CH2 (mV): 340, 173, 86, 67, 50, 35, 24, 17, 10, 1, -8, -16, -34

Scale 1:350

5 0

(meters)

WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"

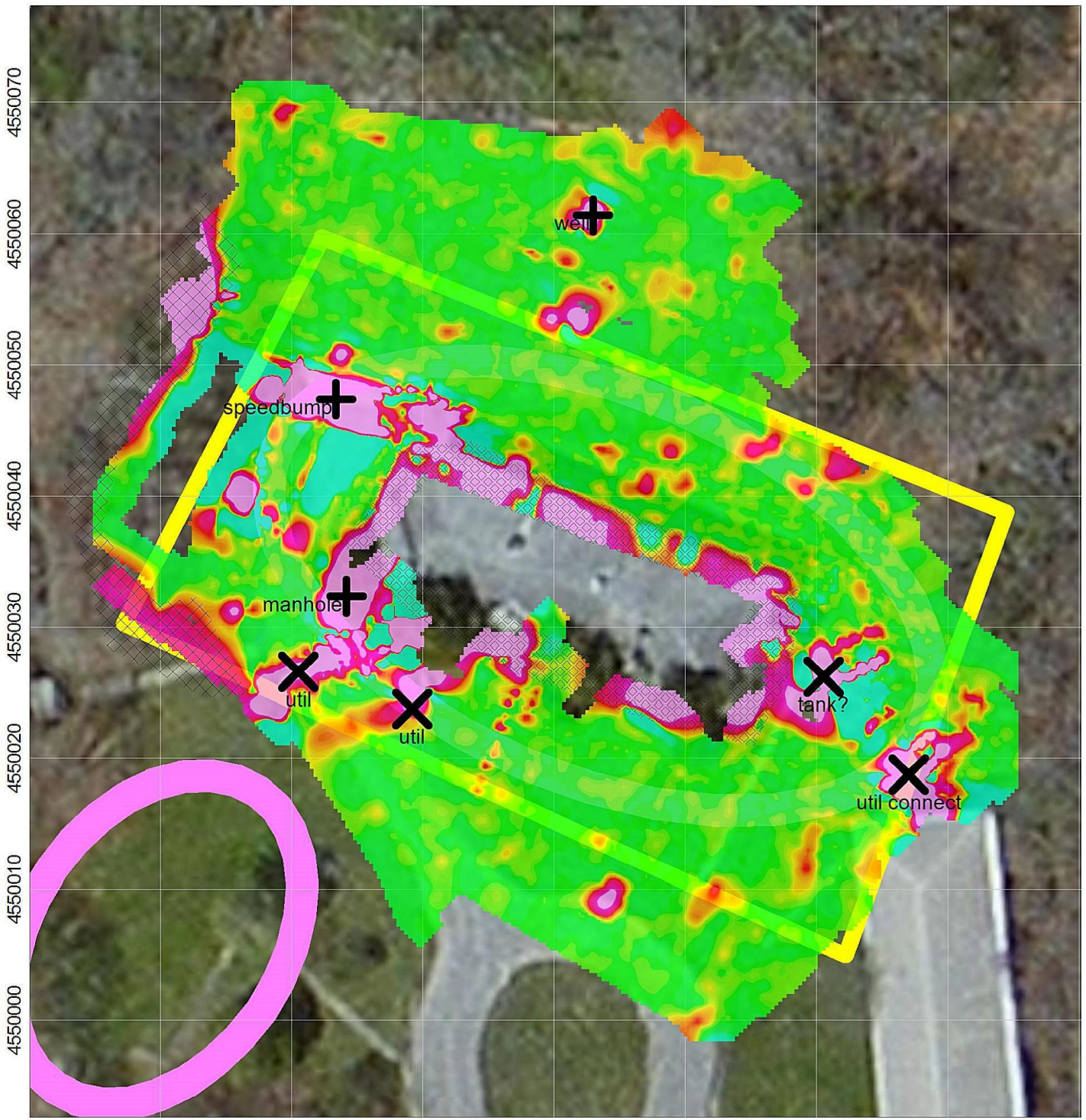
Mag North: 0°0'0"

Client: USACE Baltimore	
Project: Camp Hero, Montauck, NY	
Contractor: AECOM - TIdewater JV	
Created by: EC / ME	Verified by: BSB
Date: 05/19/2016	File: Building 20
Page number: 1	Approved: BSB

AECOM

Building 22 - (Tank B) MAP

Buried Metal Detection Map



LEGEND

- Effects from Building (brick cross-hatch)
- Effects from Fence / Deb (diamond cross-hatch)
- + label — above ground feature (sign w/ label)
- X label — below ground feature (sign w/ label)
- search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:500
5 0 5
(meters)
WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"
Mag North: 0°0'0"

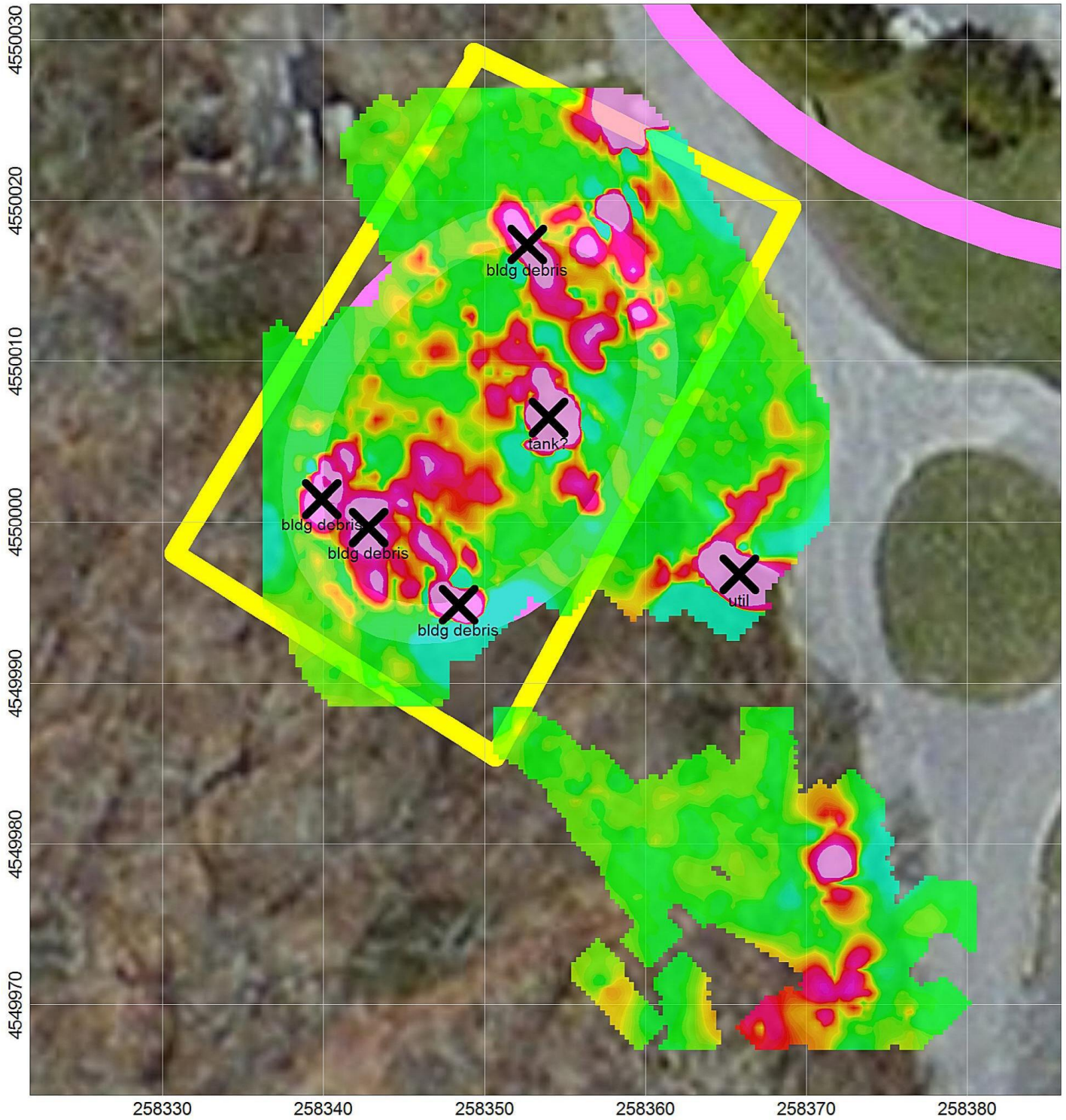
Client: USACE Baltimore District

Project: Camp Hero, Montauck, NY

Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 05/17/2016	File: Building 22
Page number: 1	Approved: BSB

AECOM



Building 2 - (Tank C) MAP

Buried Metal Detection Map

LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

X label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:400

5 0

(meters)

WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"

Mag North: 0°0'0"

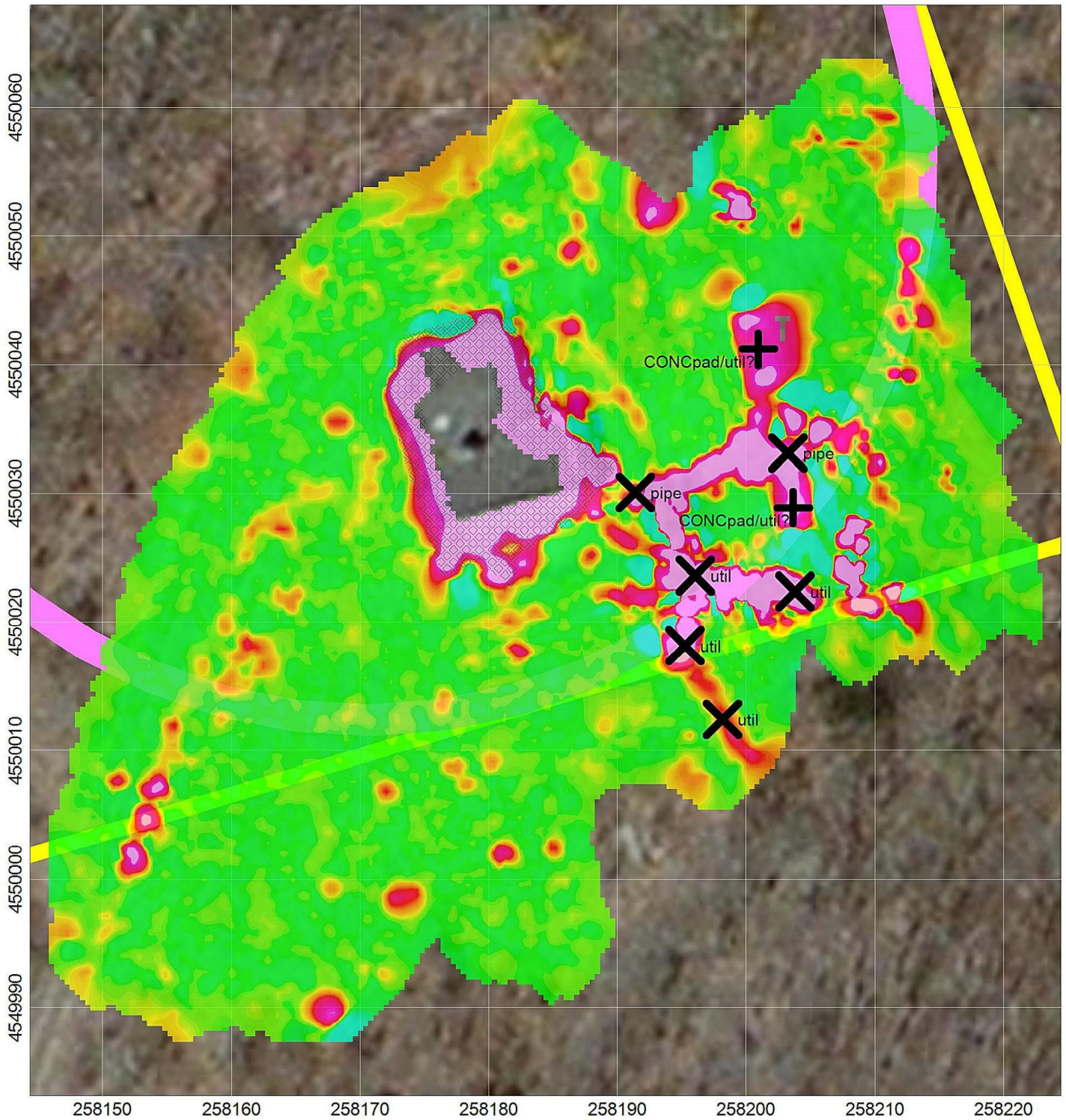
Client: USACE Baltimore

Project: Camp Hero, Montauck, NY

Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 05/18/2016	File: Building 2
Page number:	Approved: BSB

AECOM



Building 104R - (Tank D) MAP

Buried Metal Detection Map

LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

label — below ground feature (sign w/ label)

search radius and squared off work area

CH2 (mV)
340
173
86
67
50
35
24
17
10
1
-8
-16
-34

Scale 1:500
5 0 5
(meters)
WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"
Mag North: 0°0'0"

Client: USACE Baltimore District

Project: Camp Hero, Montauck, NY

Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 07/18/2016	File: Building 104R
Page number: 1	Approved: BSB

AECOM

Building 3001 - (tank E) MAP

Buried Metal Detection Map

LEGEND

- Effects from Building (brick cross-hatch)
- Effects from Fence / Deb (diamond cross-hatch)
- + label — above ground feature (sign w/ label)
- X label — below ground feature (sign w/ label)
- search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:350
5 0
(meters)
WGS 84 / UTM zone 19N

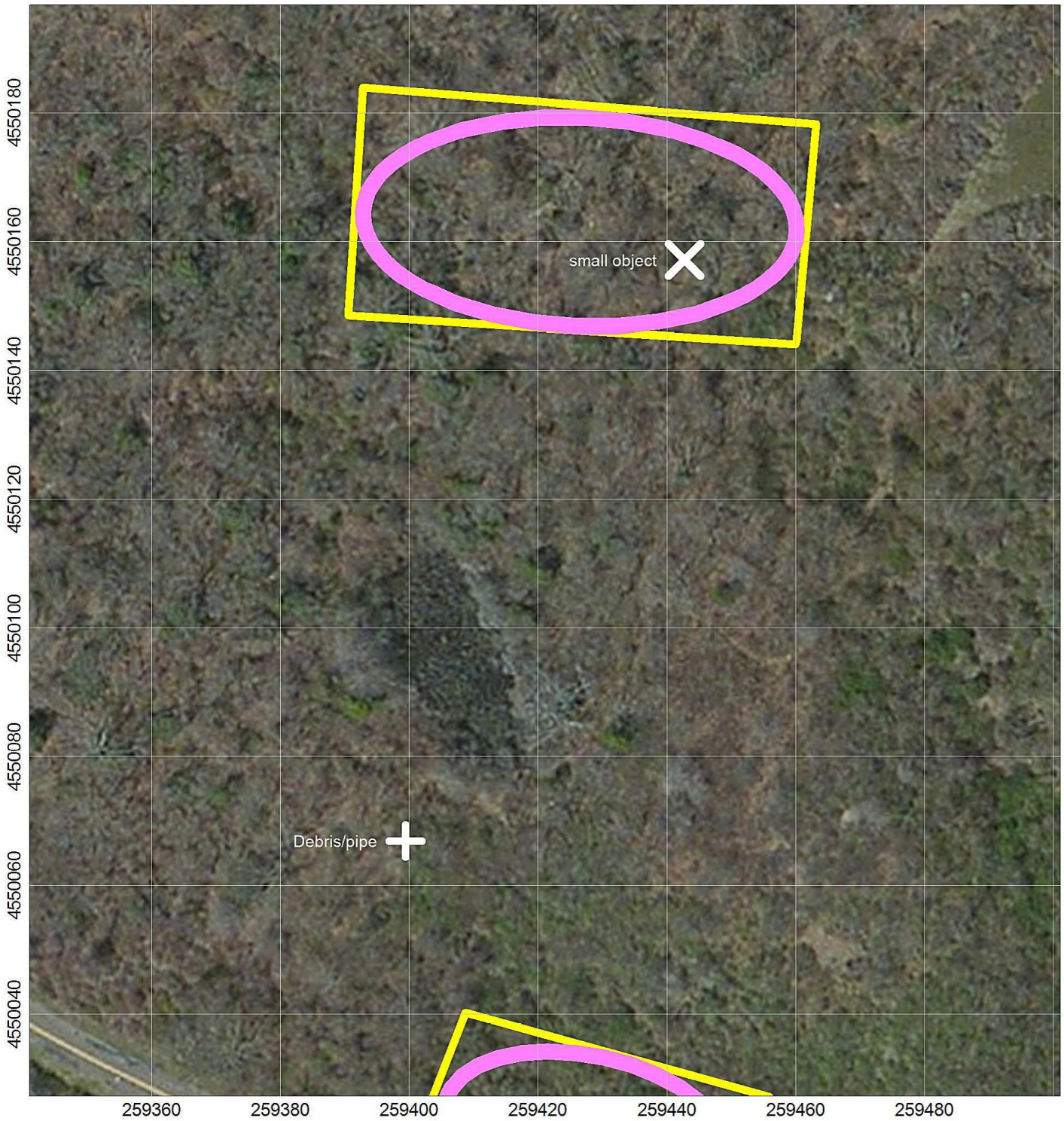
Map Scale:

N

Grid North: 0°0'0"
Mag North: 0°0'0"

Client: USACE Baltimore District	
Project: Camp Hero, Montauck, NY	
Contractor: AECOM - Tidewater JV	
Created by: EC, ME	Verified by: BSB
Date: 05/17/2016	File: Building 3001
Page number: 1	Approved: BSB

AECOM



Pump House - (Tank F and Tank G) MAP

Buried Metal Detection Map

LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

X label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:1000

10 0 10

(meters)

WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"

Mag North: 0°0'0"

Client: USACE Baltimore

Project: Camp Hero, Montauk, NY

Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 05/20/2016	File: Building FPH
Page number: 1	Approved: BSB

AECOM

Building FPH - (Tank 35) MAP

Buried Metal Detection Map

LEGEND

- Effects from Building (brick cross-hatch)
- Effects from Fence / Deb (diamond cross-hatch)
- + label — above ground feature (sign w/ label)
- X label — below ground feature (sign w/ label)
- search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:350
5 0
(meters)
WGS 84 / UTM zone 19N

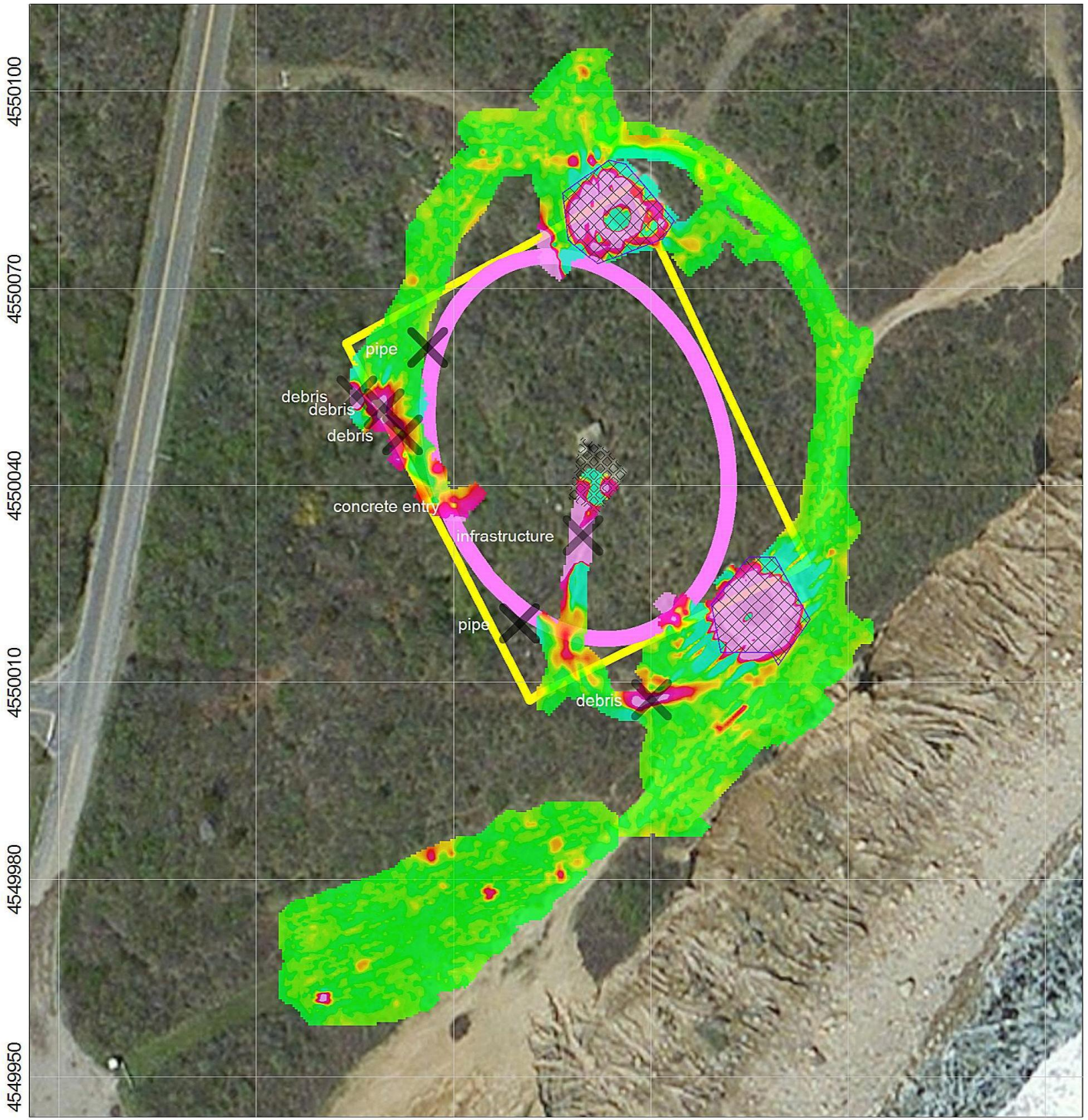
Map Scale:

N

Grid North: 0°0'0"
Mag North: 0°0'0"

Client: USACE Baltimore	
Project: Camp Hero, Montauck, NY	
Contractor: AECOM - Tidewater JV	
Created by: EC / ME	Verified by: BSB
Date: 05/18/2016	File: Building FPH
Page number: 1	Approved: BSB

AECOM



Battery 216 - (Storage or Vaults) MAP

Buried Metal Detection Map

LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:1000

10 0 10
(meters)
WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"
Mag North: 0°0'0"

Client: USACE Baltimore

Project: Camp Hero, Montauk, NY

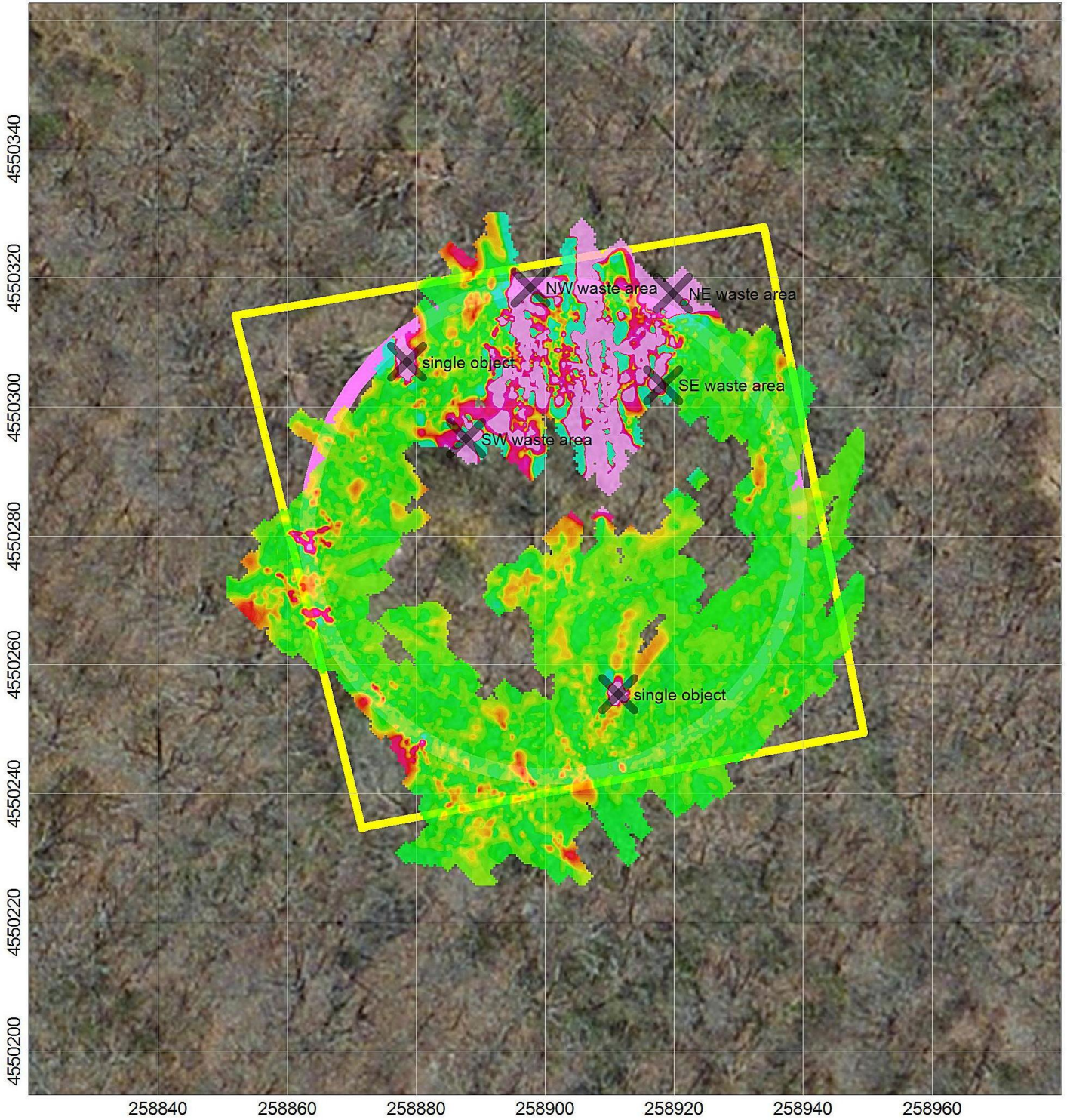
Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 05/20/2016	File: Battery 216
Page number: 1	Approved: BSB

AECOM

Plotting Rm 113 - (Drums) MAP

Buried Metal Detection Map



LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:1000

10 0 10

(meters)

WGS 84 / UTM zone 18N

Map Scale:

N

Grid North: 0°0'0"
Mag North: 0°0'0"

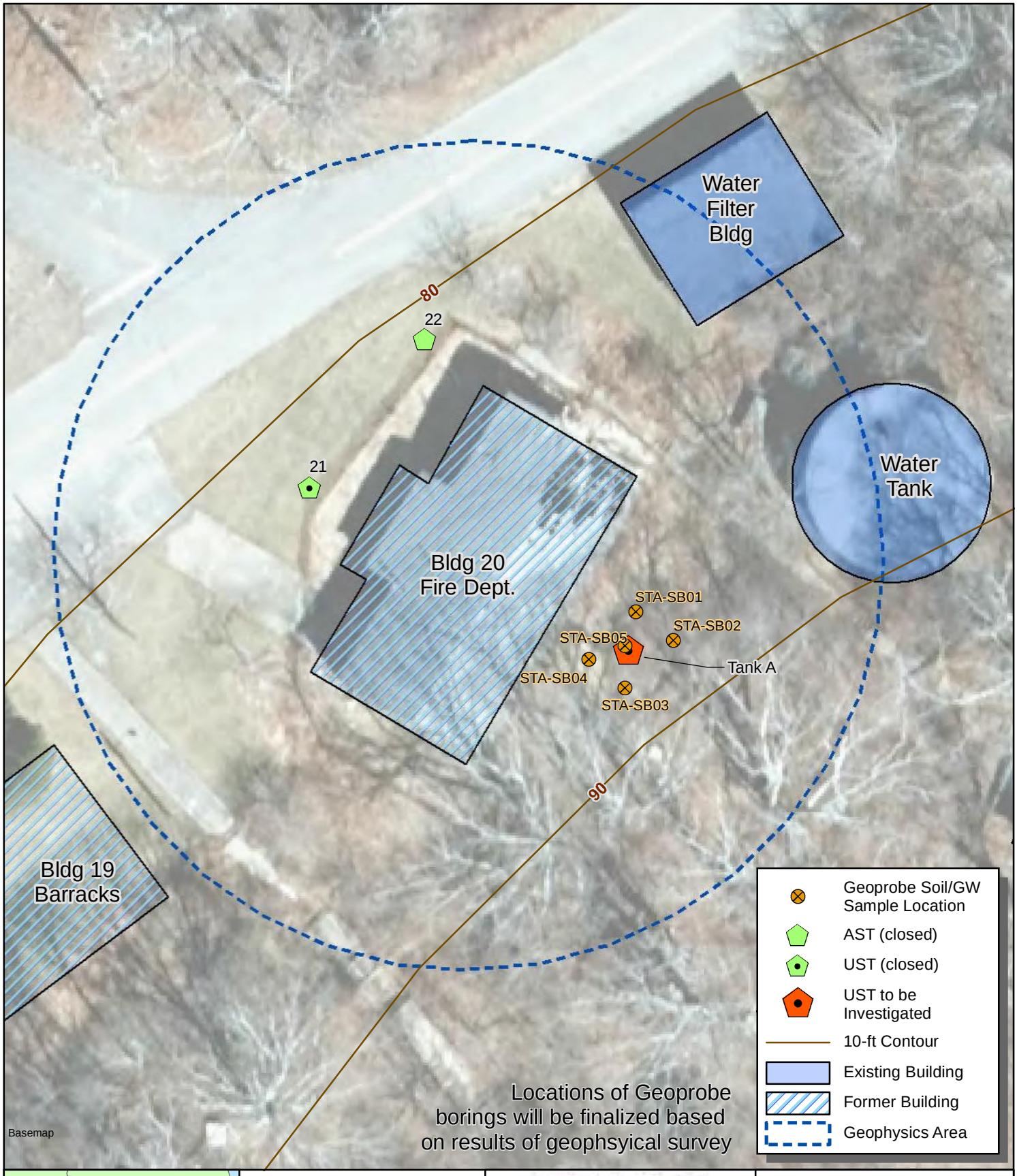
Client: USACE Baltimore

Project: Camp Hero, Montauck, NY

Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 05/20/2016	File: Battery 113
Page number: 1	Approved: BSB

AECOM



MAP LOCATION

N
W
E
S

0 12.5 25 Feet

1 inch = 25 feet

NAD 1983 StatePlane Long Island FIPS 3104

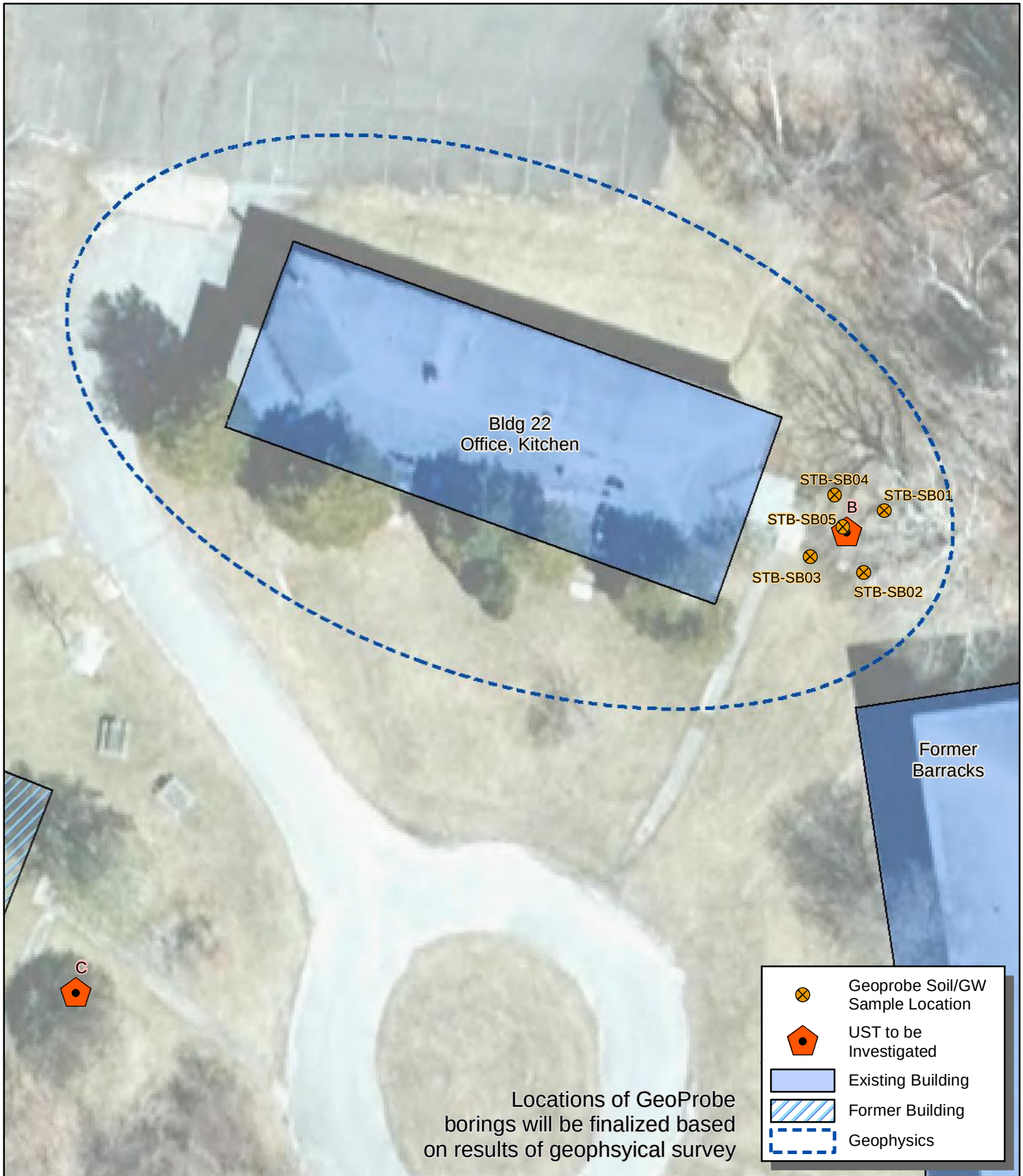
AECOM
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Building 20 (Tank-A)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-7**

5/2/2016 1:300 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-7 Bldg 20 - Tank A.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W E
S

0 12.5 25
Feet

1 inch = 25 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM
3101 Wilson Blvd., Suite 900
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Building 22 (Tank B)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-8**

5/2/2016 1:300 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-8 Bldg 22 - Tank B.mxd (USCHL1FP002\Data\Library\Gisprojects\)

MAP LOCATION

N
W
E
S

0 10 20 Feet

1 inch = 20 feet

NAD 1983 StatePlane Long Island FIPS 3104

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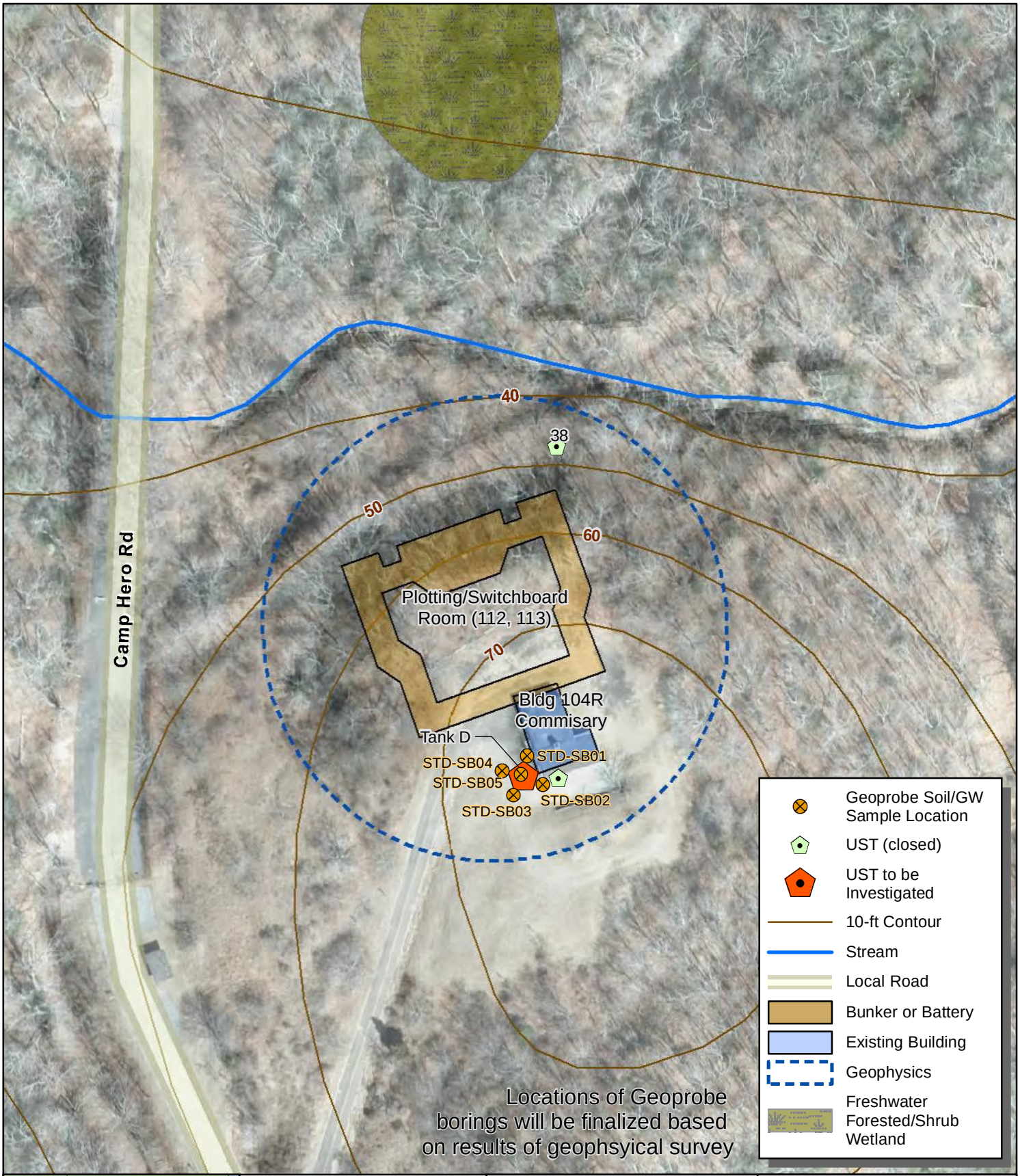
Building 2 (Tank C)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-9**

5/2/2016 1:240 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-9 Bldg 2 - Tank C.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 40 80

Feet

1 inch = 80 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM
3101 Wilson Blvd., Suite 900
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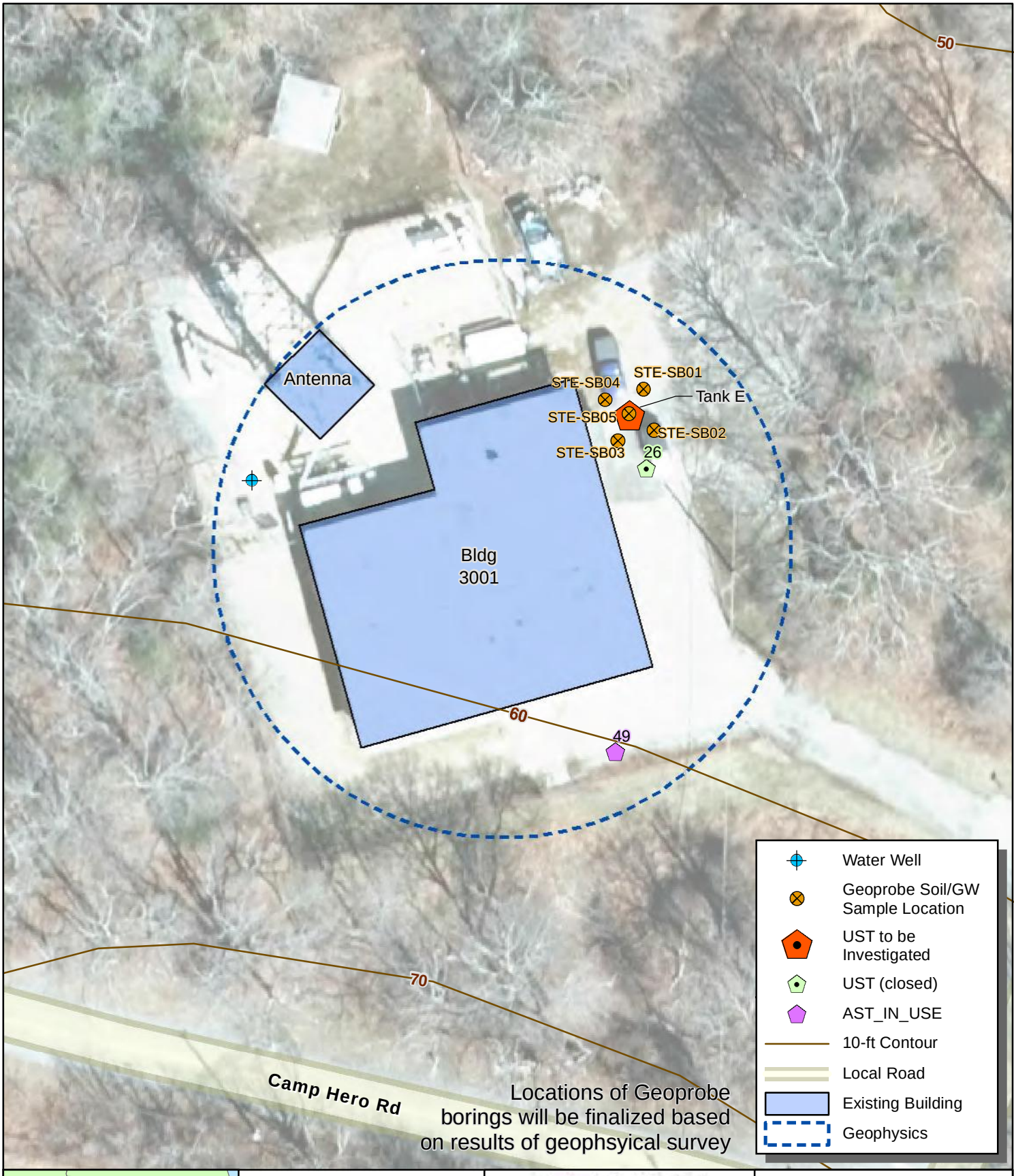
Building 104R (Tank D)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-10**

5/2/2016 1:960 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-10 Bldg 104R - Tank D.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W E
S

0 15 30
Feet

1 inch = 35 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM

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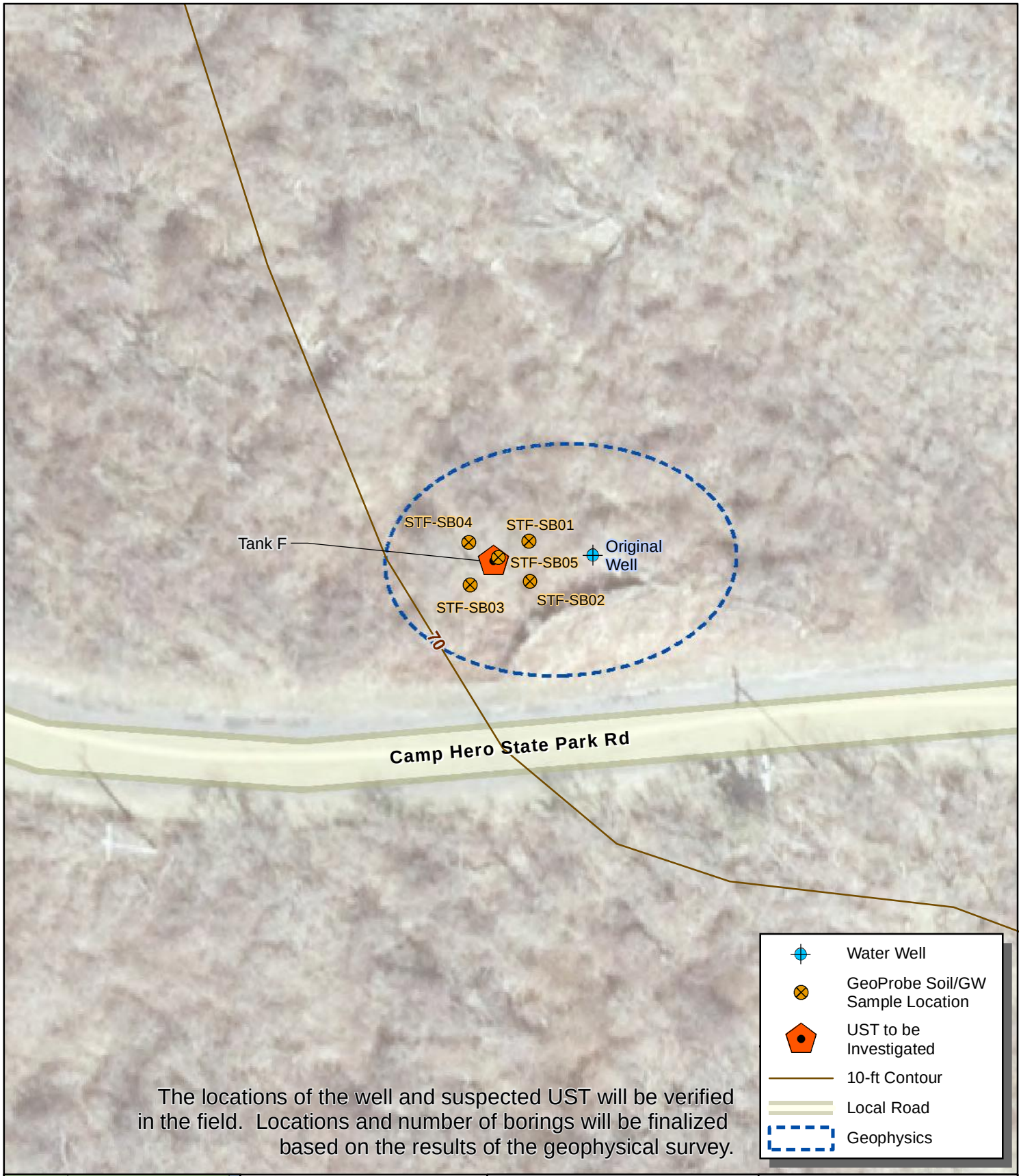
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Building 3001 (Tank E)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-11**

5/2/2016 1:420 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-11 Bldg 3001 - Tank E.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 15 30 Feet

1 inch = 30 feet

NAD 1983 StatePlane Long Island FIPS 3104

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3101 Wilson Blvd., Suite 900
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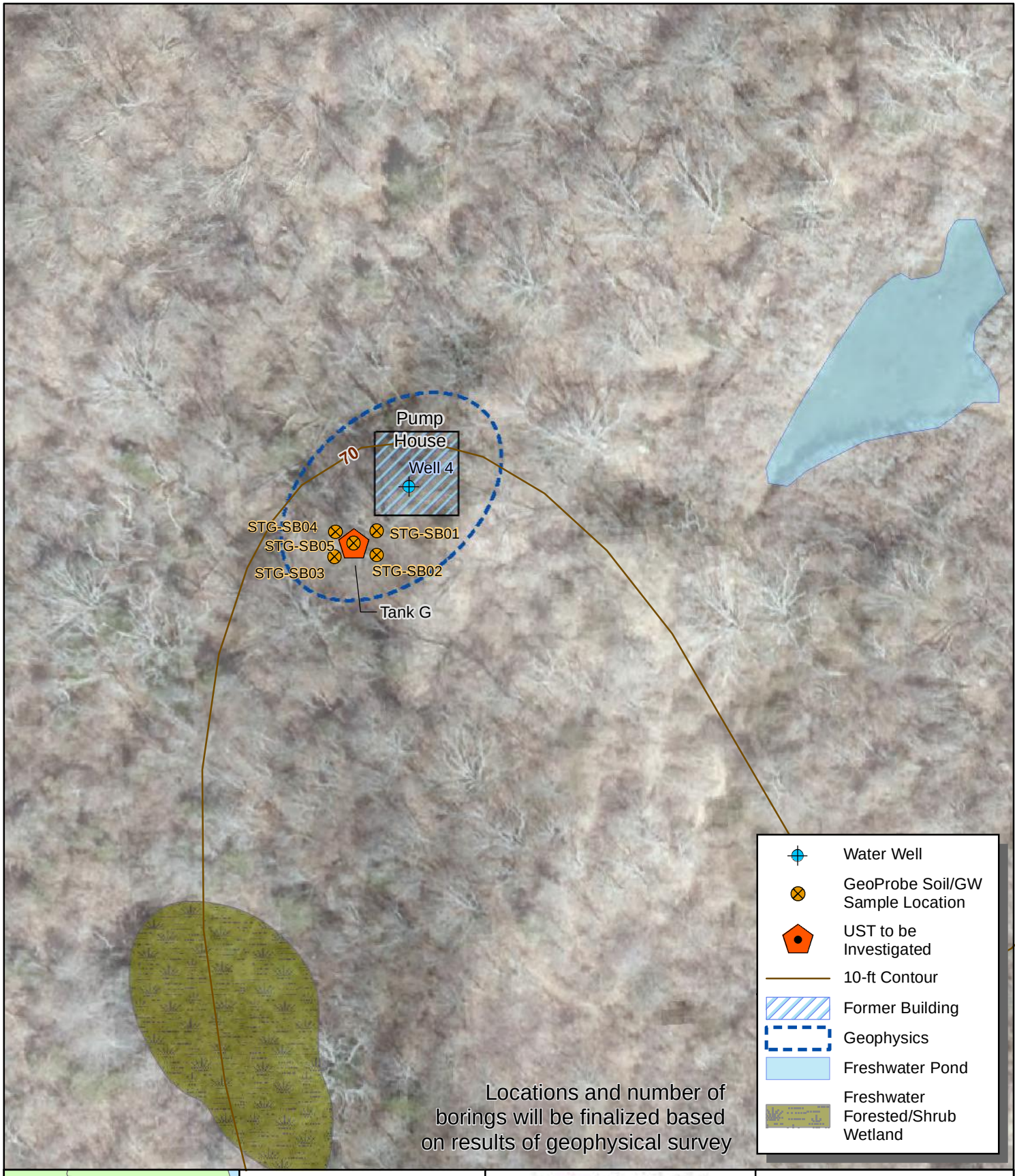
Pump House (Tank F)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-12**

5/2/2016 1:360 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-12 PumpHouse - Tank F.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 25 50 Feet

1 inch = 55 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM

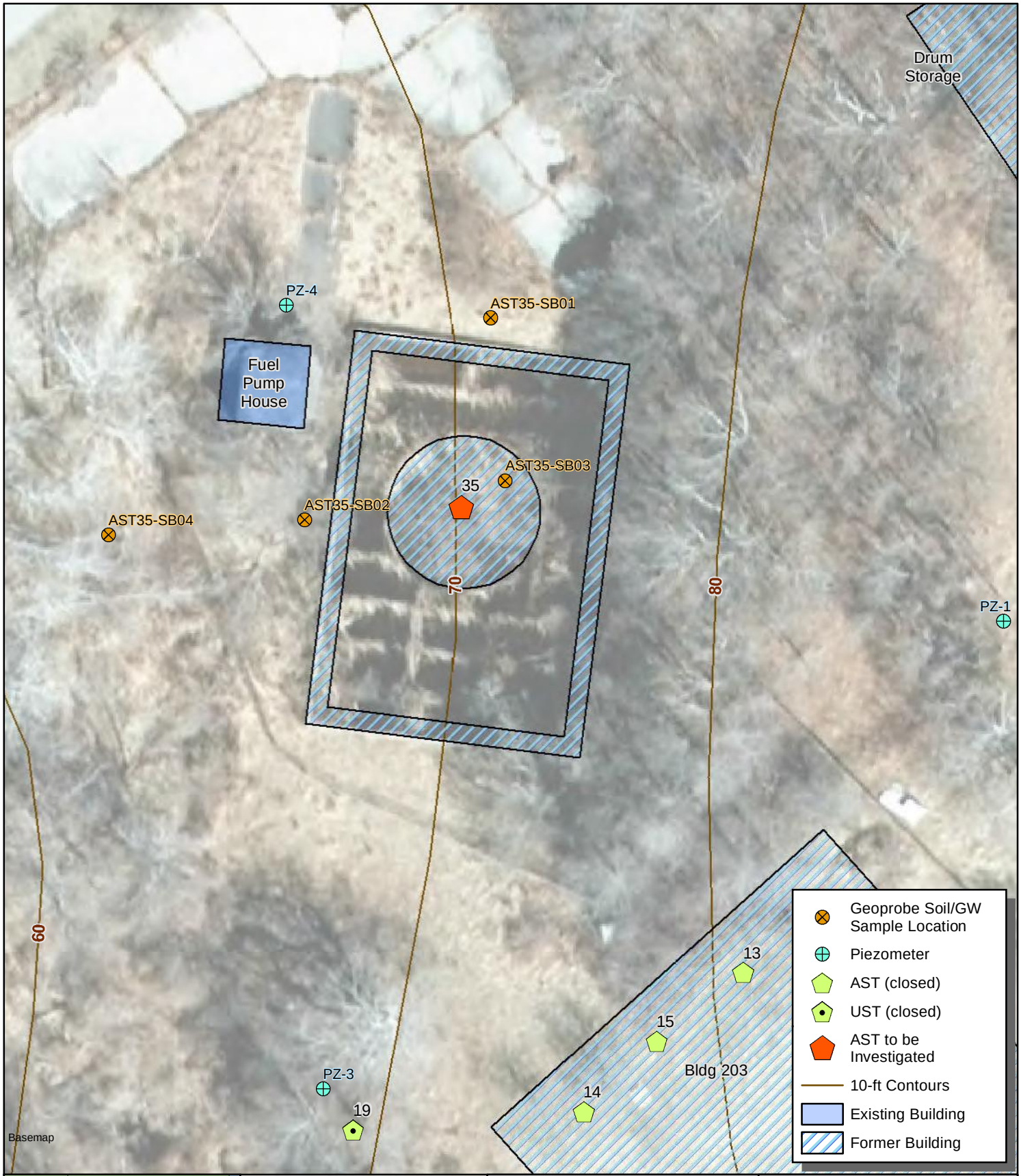
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Pump House (Tank G)
Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-13**

5/2/2016 1:660 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-13 PumpHouse - Tank G.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 15 30

Feet

1 inch = 30 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
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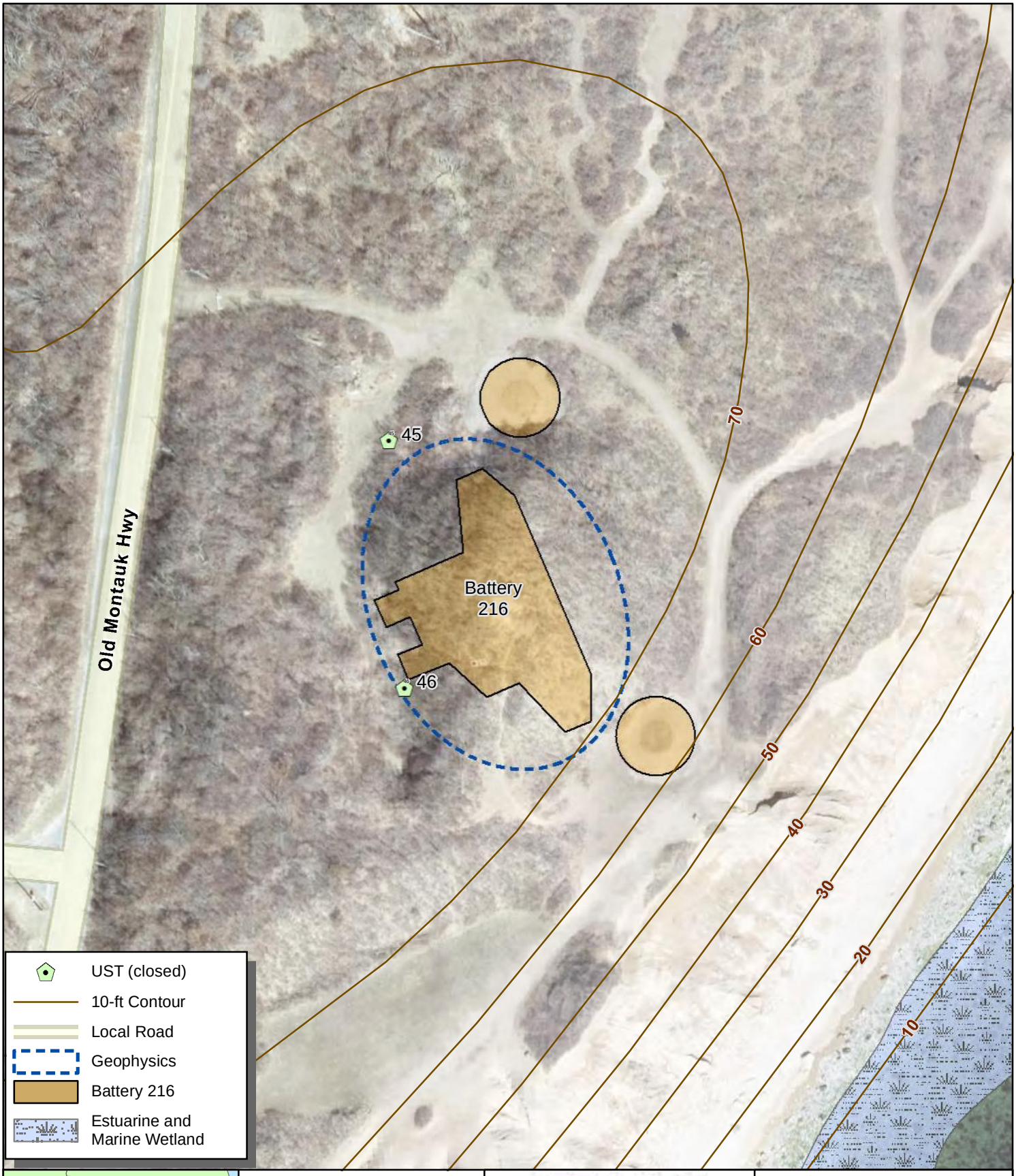
AST-35 (H-13) Phase 1 RI Sampling Locations

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-5**

5/2/2016 1:360 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-5 AST 35.mxd (USCHL1FP002\Data\Library\Gisprojects\)



MAP LOCATION

N
W
E
S

0 37.5 75

Feet

1 inch = 75 feet

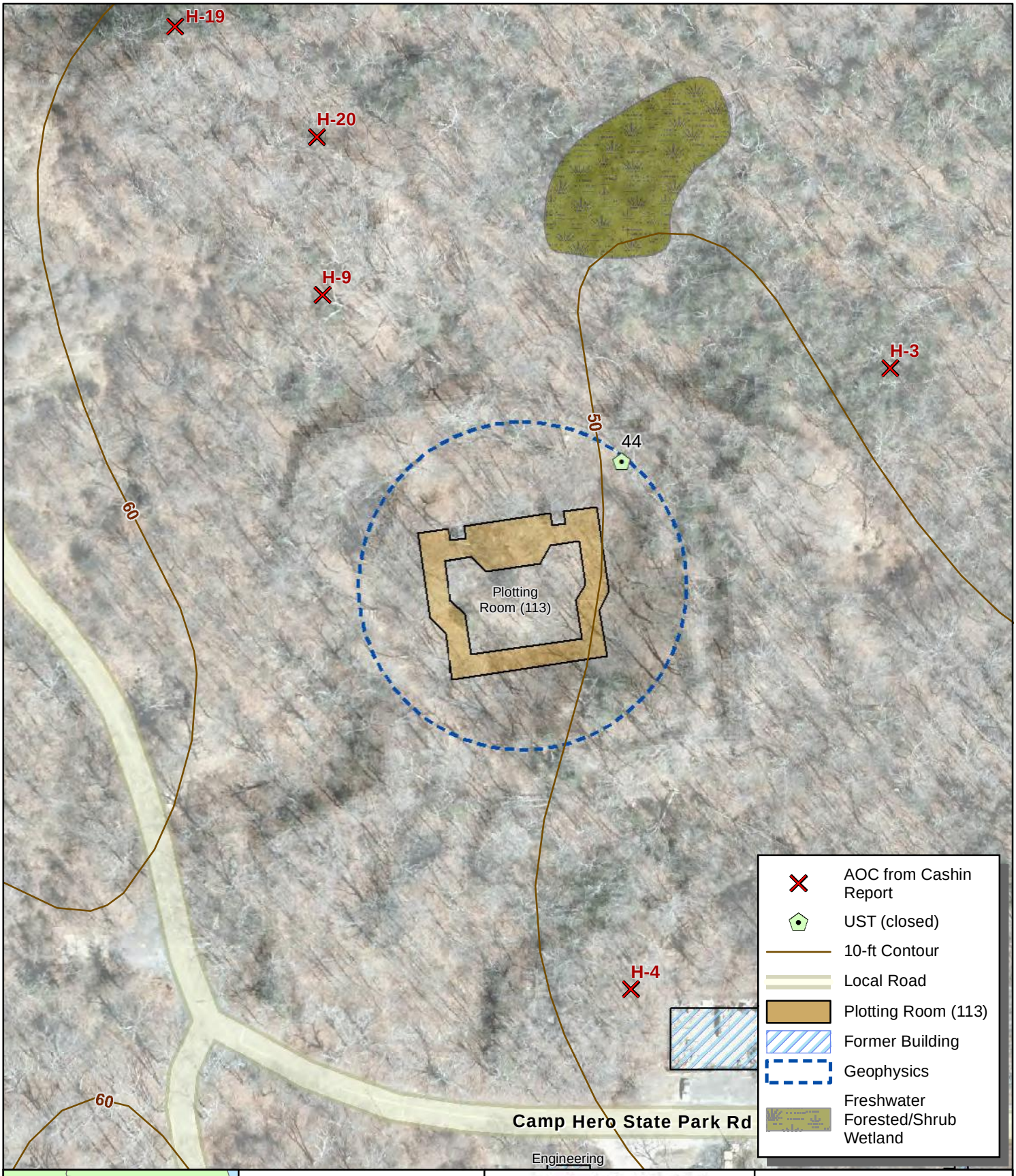
NAD 1983 StatePlane Long Island FIPS 3104

AECOM
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Battery 216
Phase 1 RI Geophysical Survey Area

Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-40**



MAP LOCATION

N
W E
S

0 50 100 Feet

1 inch = 100 feet

NAD 1983 StatePlane Long Island FIPS 3104

AECOM
3101 Wilson Blvd., Suite 900
Arlington, VA 22201
T 703-682-4900 F 703-682-4901

Plotting Room 113
Phase 1 RI Geophysical Survey Area

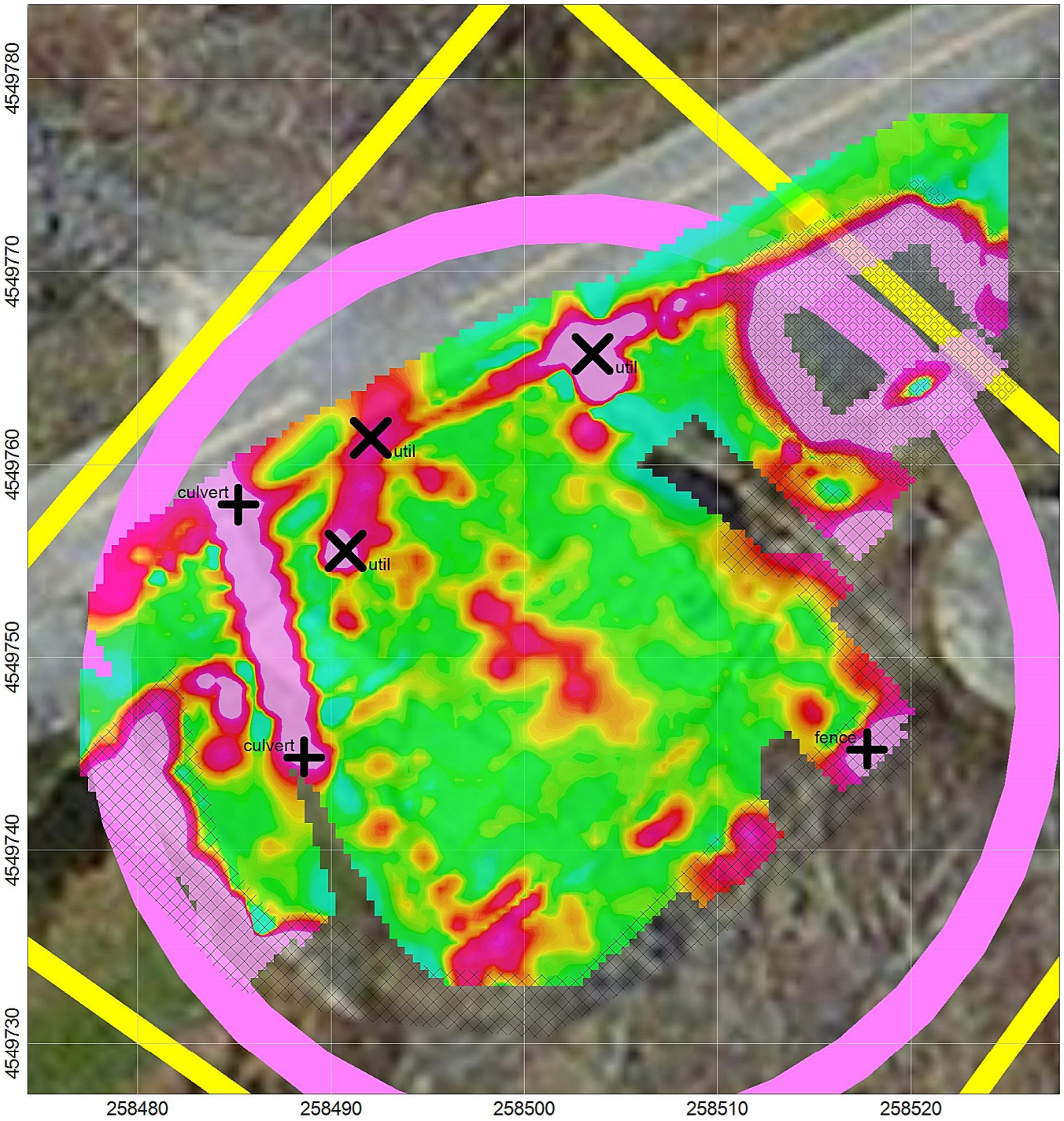
Camp Hero Remedial Investigation Work Plan

PROJECT NO.	PREPARED BY:	DATE:	
60443903	DDS	May 2016	**Figure 6-41**

5/2/2016 1:1,200 Y:\Projects\Camp_Hero\Maps\Workplan\Fig 6-41 Plotting Room 113.mxd (USCHL1FP002\Data\Library\Gisprojects\)

Building 20 - (Tank A) MAP

Buried Metal Detection Map



LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:350

5 0

(meters)

WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"

Mag North: 0°0'0"

Client: USACE Baltimore

Project: Camp Hero, Montauck, NY

Contractor: AECOM - TIdewater JV

Created by: EC / ME	Verified by: BSB
Date: 05/19/2016	File: Building 20
Page number: 1	Approved: BSB

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Building 22 - (Tank B) MAP

Buried Metal Detection Map

LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

+ label — above ground feature (sign w/ label)

X label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:500

5 0 5

(meters)

WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"

Mag North: 0°0'0"

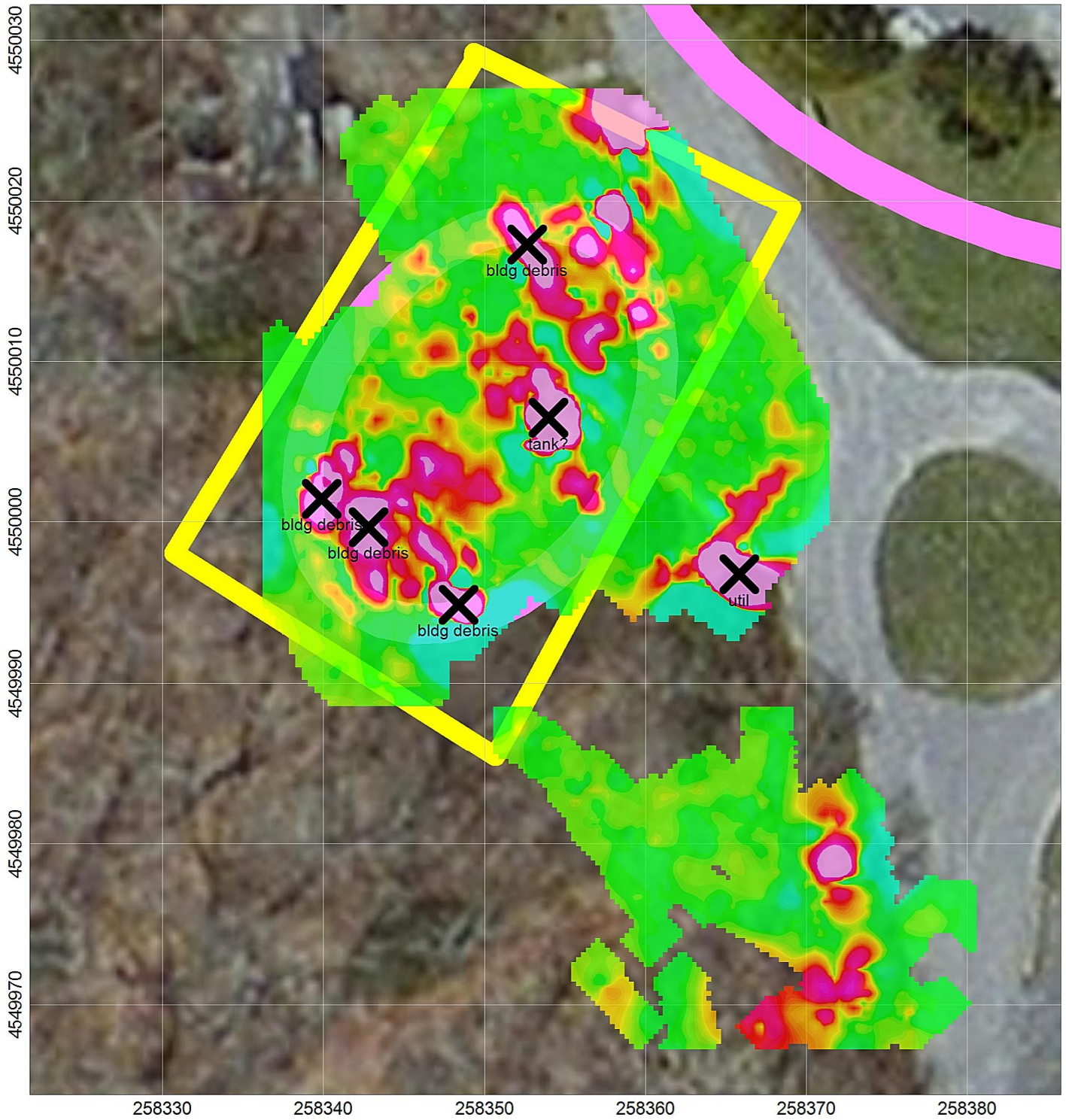
Client: USACE Baltimore District

Project: Camp Hero, Montauck, NY

Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 05/17/2016	File: Building 22
Page number: 1	Approved: BSB

AECOM



Building 2 - (Tank C) MAP

Buried Metal Detection Map

LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

X label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:400

5 0 (meters)

WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"
Mag North: 0°0'0"

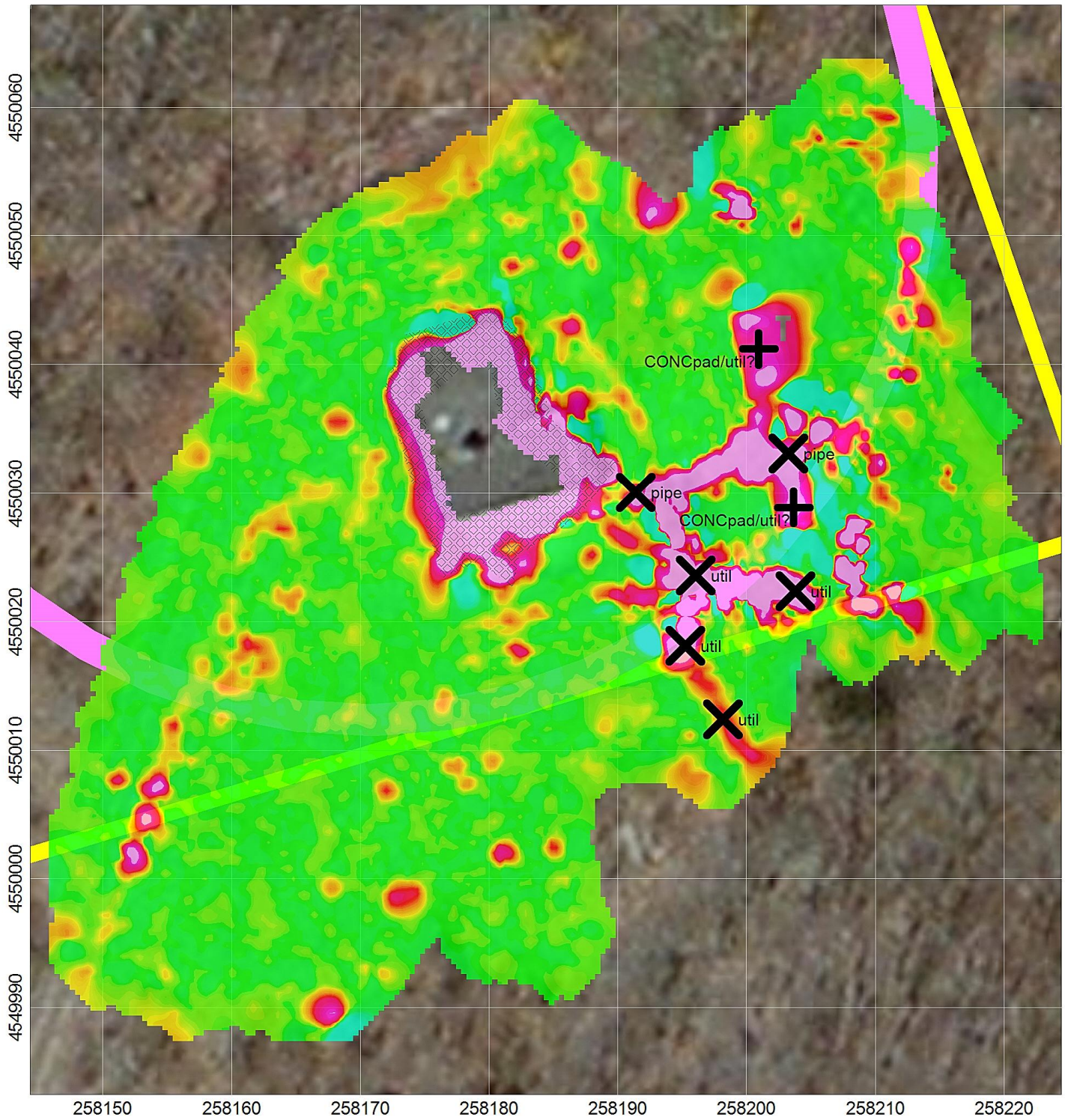
Client: USACE Baltimore

Project: Camp Hero, Montauck, NY

Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 05/18/2016	File: Building 2
Page number:	Approved: BSB

AECOM



Building 104R - (Tank D) MAP

Buried Metal Detection Map

LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:500

5 0 5

(meters)

WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"

Mag North: 0°0'0"

Client: USACE Baltimore District

Project: Camp Hero, Montauck, NY

Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 07/18/2016	File: Building 104R
Page number: 1	Approved: BSB

AECOM

Building 3001 - (tank E) MAP

Buried Metal Detection Map

LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

X label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:350

5 0

(meters)

WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"

Mag North: 0°0'0"

Client: USACE Baltimore District

Project: Camp Hero, Montauck, NY

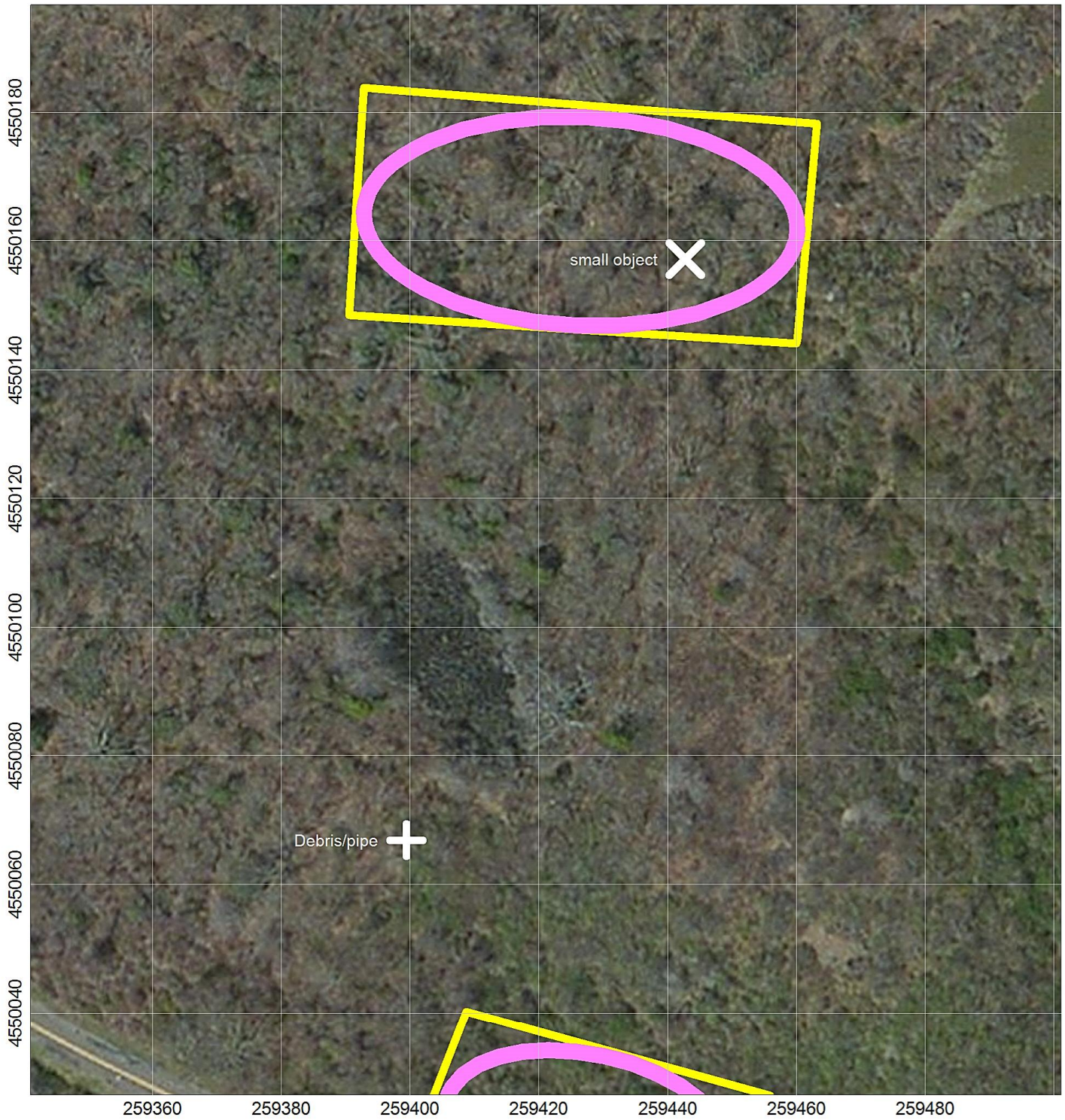
Contractor: AECOM - Tidewater JV

Created by: EC, ME	Verified by: BSB
Date: 05/17/2016	File: Building 3001
Page number: 1	Approved: BSB

AECOM

Pump House - (Tank F and Tank G) MAP

Buried Metal Detection Map



LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

X label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:1000

10 0 10

(meters)

WGS 84 / UTM zone 19N

Map Scale:

N

Grid North: 0°0'0"

Mag North: 0°0'0"

Client: USACE Baltimore

Project: Camp Hero, Montauk, NY

Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 05/20/2016	File: Building FPH
Page number: 1	Approved: BSB

AECOM

Building FPH - (Tank 35) MAP

Buried Metal Detection Map

LEGEND

- Effects from Building (brick cross-hatch)
- Effects from Fence / Deb (diamond cross-hatch)
- + label — above ground feature (sign w/ label)
- X label — below ground feature (sign w/ label)
- search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:350
(meters)
WGS 84 / UTM zone 19N

Map Scale:

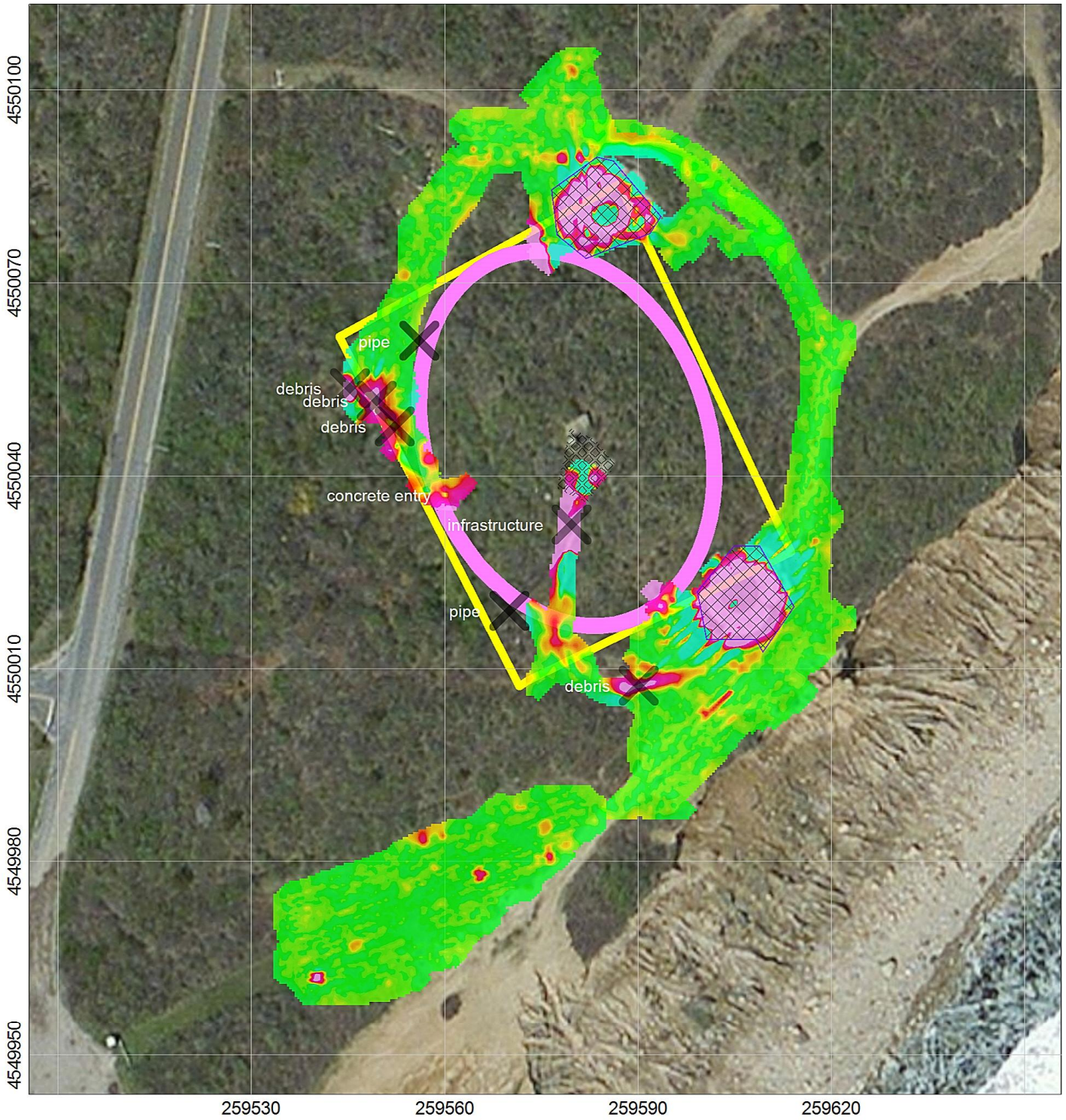
Grid North: 0°0'0"
Mag North: 0°0'0"

Client: USACE Baltimore	
Project: Camp Hero, Montauck, NY	
Contractor: AECOM - Tidewater JV	
Created by: EC / ME	Verified by: BSB
Date: 05/18/2016	File: Building FPH
Page number: 1	Approved: BSB

AECOM

Battery 216 - (Storage or Vaults) MAP

Buried Metal Detection Map



LEGEND

- Effects from Building (brick cross-hatch)
- Effects from Fence / Deb (diamond cross-hatch)
- + label — above ground feature (sign w/ label)
- X label — below ground feature (sign w/ label)
- search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:1000
10 0 10
(meters)
WGS 84 / UTM zone 19N

Map Scale:

N

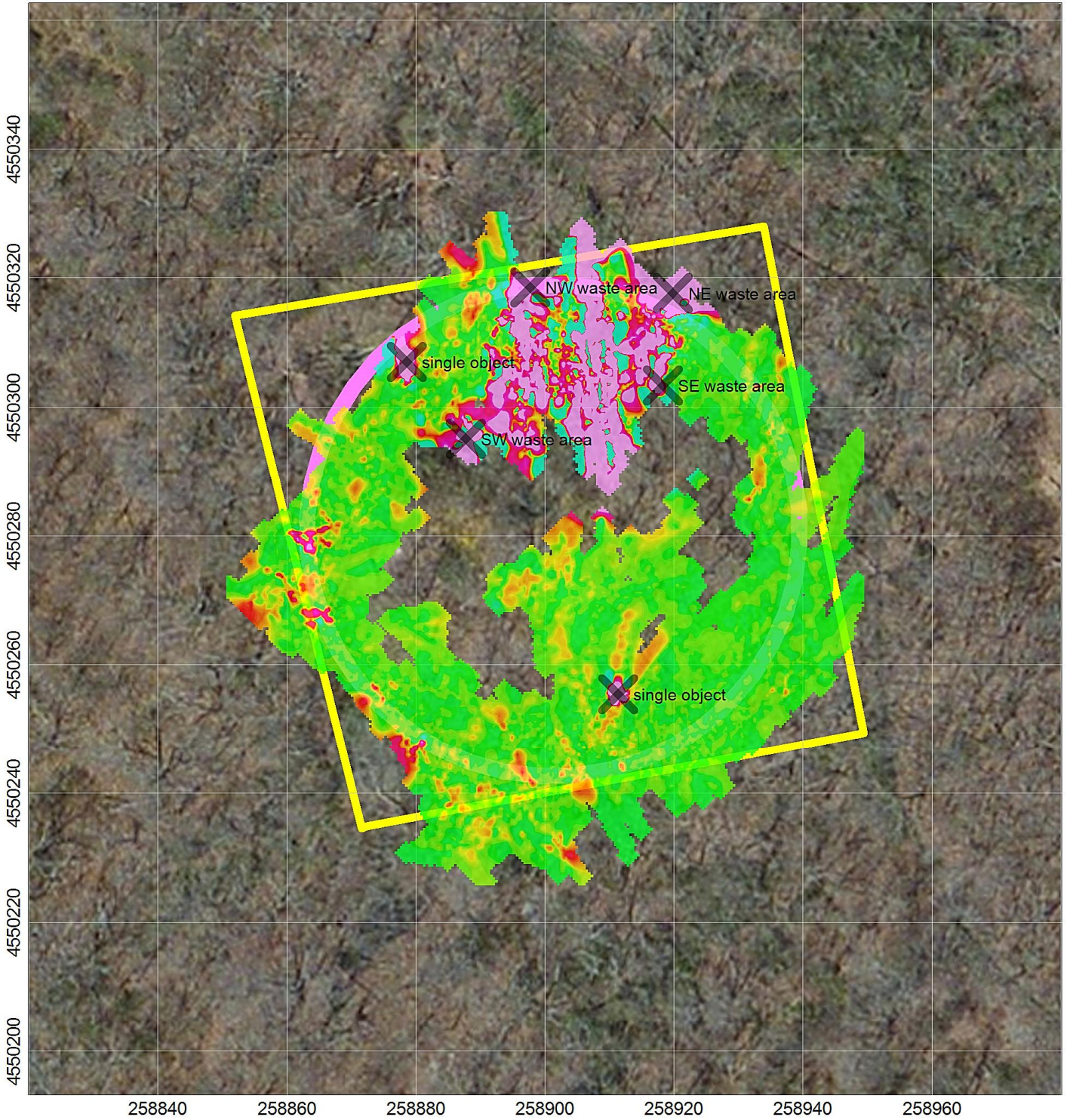
Grid North: 0°0'0"
Mag North: 0°0'0"

Client: USACE Baltimore	
Project: Camp Hero, Montauk, NY	
Contractor: AECOM - Tidewater JV	
Created by: EC / ME	Verified by: BSB
Date: 05/20/2016	File: Battery 216
Page number: 1	Approved: BSB

AECOM

Plotting Rm 113 - (Drums) MAP

Buried Metal Detection Map



LEGEND

Effects from Building (brick cross-hatch)

Effects from Fence / Deb (diamond cross-hatch)

label — above ground feature (sign w/ label)

label — below ground feature (sign w/ label)

search radius and squared off work area

340
173
86
67
50
35
24
17
10
1
-8
-16
-34
CH2 (mV)

Scale 1:1000

10 0 10

(meters)

WGS 84 / UTM zone 18N

Map Scale:

N

Grid North: 0°0'0"

Mag North: 0°0'0"

Client: USACE Baltimore

Project: Camp Hero, Montauck, NY

Contractor: AECOM - Tidewater JV

Created by: EC / ME	Verified by: BSB
Date: 05/20/2016	File: Battery 113
Page number: 1	Approved: BSB

AECOM

Appendix F

Community Air Monitoring Data

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=~=~=~=~=~=~=~=~=~=~=~=~=~=~ PuTTY log 2016.06.13 21:18:37 =~=~=~=~=~=~=~=~=~=~=~=~=~=~

"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	1	
"Start Time "	09:05:41	
"Start Date "	08-Jun-2016	
"Log Period "	00:01:00	
"Number "	188	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	2.521436	
"Max MASS @ "	1	
"Avg MASS "	0.029097	
"Max Diam "	0.339235	
"Max Diam @ "	1	
"Avg Diam "	0.337463	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	2.5	68	50	0.3392
2	0	68.1	51	0.3375
3	1.7	68.1	51	0.339
4	0.6	68.2	51	0.3354
5	0	68.2	52	0.3375
6	0	68.3	52	0.3375
7	0	68.3	52	0.3375
8	0	68.3	52	0.3375
9	0	68.4	52	0.3375
10	0	68.4	53	0.3375
11	0	68.5	53	0.3375
12	0	68.5	53	0.3375
13	0	68.5	53	0.3375
14	0	68.6	53	0.3375
15	0	68.7	54	0.3375
16	0	68.7	54	0.3375
17	0	68.8	54	0.3375
18	0	68.9	54	0.3375
19	0	68.9	54	0.3375
20	0	69	54	0.3375
21	0	69	54	0.3375
22	0	69.1	54	0.3375
23	0	69.1	54	0.3375
24	0	69.2	54	0.3375
25	0	69.2	54	0.3375
26	0	69.3	54	0.3375
27	0	69.3	54	0.3375
28	0	69.4	54	0.3375
29	0	69.4	54	0.3375
30	0	69.4	54	0.3375
31	0	69.6	54	0.3375
32	0	69.6	54	0.3375
33	0	69.7	54	0.3375
34	0	69.8	54	0.3375
35	0	69.8	54	0.3375
36	0	69.8	54	0.3375
37	0	69.9	54	0.3375

=~=~=~=~=~=~=~=~=~=~=~=~=~= PuTTY log 2016.06.13 21:18:37 =~=~=~=~=~=~=~=~=~=~=~=~=~=

"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	1	
"Start Time "	09:05:41	
"Start Date "	08-Jun-2016	
"Log Period "	00:01:00	
"Number "	188	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	2.521436	
"Max MASS @ "	1	
"Avg MASS "	0.029097	
"Max Diam "	0.339235	
"Max Diam @ "	1	
"Avg Diam "	0.337463	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	0	69.9	54	0.3375
39	0	70	54	0.3375
40	0	70	54	0.3375
41	0	70.1	54	0.3375
42	0	70.1	54	0.3375
43	0	70.2	54	0.3375
44	0	70.2	54	0.3375
45	0	70.3	54	0.3375
46	0	70.3	54	0.3375
47	0	70.5	53	0.3375
48	0	70.6	53	0.3375
49	0	70.6	53	0.3375
50	0	70.7	53	0.3375
51	0	70.8	53	0.3375
52	0	70.9	53	0.3375
53	0	70.9	53	0.3375
54	0	71	53	0.3375
55	0	71.1	53	0.3375
56	0	71.2	53	0.3375
57	0	71.3	53	0.3375
58	0	71.5	53	0.3375
59	0	71.6	53	0.3375
60	0	71.7	53	0.3375
61	0	71.9	53	0.3375
62	0	72	53	0.3375
63	0	72.1	53	0.3375
64	0	72.4	53	0.3375
65	0	72.5	53	0.3375
66	0	72.7	52	0.3375
67	0	72.8	52	0.3375
68	0	72.9	52	0.3375
69	0	73.1	52	0.3375
70	0	73.3	52	0.3375
71	0	73.4	52	0.3375
72	0	73.6	52	0.3375
73	0	73.7	51	0.3375
74	0	73.9	51	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	1	
"Start Time "	09:05:41	
"Start Date "	08-Jun-2016	
"Log Period "	00:01:00	
"Number "	188	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	2.521436	
"Max MASS @ "	1	
"Avg MASS "	0.029097	
"Max Diam "	0.339235	
"Max Diam @ "	1	
"Avg Diam "	0.337463	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	0	74	51	0.3375
76	0	74.2	51	0.3375
77	0	74.4	51	0.3375
78	0	74.5	51	0.3375
79	0	74.7	50	0.3375
80	0	74.9	50	0.3375
81	0	75.1	50	0.3375
82	0	75.3	50	0.3375
83	0	75.5	50	0.3375
84	0	75.7	50	0.3375
85	0	75.9	50	0.3375
86	0	76.1	50	0.3375
87	0	76.3	49	0.3375
88	0	76.5	49	0.3375
89	0	76.7	49	0.3375
90	0	76.9	49	0.3375
91	0	77.1	49	0.3375
92	0	77.3	49	0.3375
93	0	77.4	49	0.3375
94	0	77.6	49	0.3375
95	0	77.9	49	0.3375
96	0	78	48	0.3375
97	0	78.2	48	0.3375
98	0	78.4	48	0.3375
99	0	78.6	48	0.3375
100	0	78.7	48	0.3375
101	0	78.9	47	0.3375
102	0	79	47	0.3375
103	0	79.1	47	0.3375
104	0	79.2	47	0.3375
105	0	79.3	47	0.3375
106	0	79.4	47	0.3375
107	0	79.5	46	0.3375
108	0	79.6	46	0.3375
109	0	79.7	46	0.3375
110	0	79.7	46	0.3375
111	0	79.7	46	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	1	
"Start Time "	09:05:41	
"Start Date "	08-Jun-2016	
"Log Period "	00:01:00	
"Number "	188	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	2.521436	
"Max MASS @ "	1	
"Avg MASS "	0.029097	
"Max Diam "	0.339235	
"Max Diam @ "	1	
"Avg Diam "	0.337463	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
112	0	79.8	45	0.3375
113	0	79.8	45	0.3375
114	0	79.8	45	0.3375
115	0	79.8	45	0.3375
116	0	79.8	45	0.3375
117	0	79.8	44	0.3375
118	0	79.8	44	0.3375
119	0	79.8	44	0.3375
120	0	79.8	44	0.3375
121	0	79.8	44	0.3375
122	0	79.7	44	0.3375
123	0	79.7	43	0.3375
124	0	79.7	43	0.3375
125	0	79.6	43	0.3375
126	0	79.6	43	0.3375
127	0	79.4	43	0.3375
128	0	79.4	43	0.3375
129	0	79.3	43	0.3375
130	0	79.2	42	0.3375
131	0	79.2	42	0.3375
132	0	79.1	42	0.3375
133	0	79	42	0.3375
134	0	79	42	0.3375
135	0	79	42	0.3375
136	0	78.9	42	0.3375
137	0	78.8	41	0.3375
138	0	78.7	41	0.3375
139	0	78.5	41	0.3375
140	0	78.5	41	0.3375
141	0	78.4	41	0.3375
142	0	78.3	41	0.3375
143	0	78.3	41	0.3375
144	0	78.2	41	0.3375
145	0	78.1	41	0.3375
146	0	78.1	41	0.3375
147	0	78	41	0.3375
148	0	78	41	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	1	
"Start Time "	09:05:41	
"Start Date "	08-Jun-2016	
"Log Period "	00:01:00	
"Number "	188	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	2.521436	
"Max MASS @ "	1	
"Avg MASS "	0.029097	
"Max Diam "	0.339235	
"Max Diam @ "	1	
"Avg Diam "	0.337463	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
149	0	77.9	41	0.3375
150	0	77.9	41	0.3375
151	0	77.8	41	0.3375
152	0	77.7	41	0.3375
153	0	77.6	41	0.3375
154	0	77.5	41	0.3375
155	0	77.5	41	0.3375
156	0	77.4	41	0.3375
157	0	77.4	41	0.3375
158	0	77.3	41	0.3375
159	0	77.3	41	0.3375
160	0	77.2	41	0.3375
161	0	77.2	41	0.3375
162	0	77.1	41	0.3375
163	0	77.1	41	0.3375
164	0	77	41	0.3375
165	0	77	41	0.3375
166	0	77	42	0.3375
167	0	77	41	0.3375
168	0	76.9	42	0.3375
169	0	76.9	42	0.3375
170	0	76.9	42	0.3375
171	0	76.8	42	0.3375
172	0	76.8	42	0.3375
173	0	76.6	42	0.3375
174	0	76.6	42	0.3375
175	0	76.6	42	0.3375
176	0	76.5	42	0.3375
177	0	76.5	42	0.3375
178	0	76.5	42	0.3375
179	0	76.5	42	0.3375
180	0	76.5	42	0.3375
181	0	76.5	42	0.3375
182	0	76.5	42	0.3375
183	0	76.6	42	0.3375
184	0	76.6	43	0.3375
185	0	76.7	43	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	1	
"Start Time "	09:05:41	
"Start Date "	08-Jun-2016	
"Log Period "	00:01:00	
"Number "	188	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	2.521436	
"Max MASS @ "	1	
"Avg MASS "	0.029097	
"Max Diam "	0.339235	
"Max Diam @ "	1	
"Avg Diam "	0.337463	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
186	0	76.8	43	0.3375
187	0	76.9	43	0.3375
188	0.7	77	43	0.3312

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	2	
"Start Time "	09:00:27	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	72	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	3.141058	
"Max MASS @ "	1	
"Avg MASS "	2.358987	
"Max Diam "	0.479832	
"Max Diam @ "	13	
"Avg Diam "	0.42793	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	3.1	64.6	47	0.4362
2	2.1	64.5	48	0.4298
3	2.2	64.5	48	0.4235
4	2.6	64.5	49	0.4443
5	2.7	64.5	49	0.4449
6	2.1	64.5	49	0.4189
7	2.1	64.4	50	0.4186
8	2.4	64.5	50	0.4294
9	2	64.5	50	0.4154
10	2.4	64.5	50	0.4286
11	2.8	64.5	50	0.4497
12	2.5	64.5	51	0.4339
13	2.8	64.5	51	0.4798
14	2	64.5	51	0.4206
15	2.2	64.5	51	0.4283
16	2.3	64.5	51	0.4324
17	2.5	64.6	51	0.4425
18	2.1	64.6	51	0.4218
19	1.7	64.6	51	0.4058
20	2.6	64.6	51	0.4439
21	2.3	64.6	52	0.4317

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	2	
"Start Time "	09:00:27	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	72	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	3.141058	
"Max MASS @ "	1	
"Avg MASS "	2.358987	
"Max Diam "	0.479832	
"Max Diam @ "	13	
"Avg Diam "	0.42793	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
22	2.9	64.6	51	0.4608
23	2.5	64.7	52	0.435
24	2.8	64.7	52	0.4479
25	2.2	64.7	52	0.4281
26	2.2	64.8	52	0.4123
27	2.4	64.8	52	0.41
28	1.9	64.8	52	0.397
29	2.4	64.8	52	0.4187
30	2.4	64.9	52	0.4269
31	1.4	64.9	52	0.387
32	2	64.9	52	0.4125
33	2	64.9	52	0.4076
34	2.2	64.9	52	0.4162
35	2.9	65	52	0.456
36	2.5	65	52	0.4405
37	2.9	65	52	0.4611
38	2.2	65.1	52	0.4348
39	2	65.1	52	0.4235
40	2.4	65.1	52	0.4442
41	2.2	65.2	52	0.4393
42	2.2	65.2	52	0.4342

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	2	
"Start Time "	09:00:27	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	72	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	3.141058	
"Max MASS @ "	1	
"Avg MASS "	2.358987	
"Max Diam "	0.479832	
"Max Diam @ "	13	
"Avg Diam "	0.42793	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
43	3	65.2	52	0.473
44	2.3	65.2	52	0.4376
45	2.5	65.3	52	0.4438
46	2.3	65.3	52	0.4416
47	3.1	65.3	52	0.4692
48	2	65.4	52	0.4083
49	2.5	65.3	52	0.4314
50	2.9	65.4	52	0.4424
51	2.6	65.4	52	0.4313
52	2.6	65.4	52	0.4346
53	2.2	65.5	52	0.4109
54	2.5	65.5	52	0.4215
55	2.2	65.5	52	0.4064
56	2.2	65.5	52	0.4063
57	2	65.5	52	0.4007
58	2.2	65.6	52	0.405
59	2.1	65.6	52	0.4019
60	2.2	65.6	52	0.404
61	2.6	65.6	52	0.4163
62	2.3	65.6	52	0.4157
63	2.2	65.7	52	0.4102

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	2	
"Start Time "	09:00:27	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	72	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	3.141058	
"Max MASS @ "	1	
"Avg MASS "	2.358987	
"Max Diam "	0.479832	
"Max Diam @ "	13	
"Avg Diam "	0.42793	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
64	2.4	65.7	52	0.4136
65	1.9	65.7	52	0.398
66	2.2	65.8	52	0.4156
67	2.9	65.8	52	0.4427
68	2.4	65.8	52	0.4315
69	2.7	65.8	52	0.4431
70	2.3	65.9	52	0.4263
71	2.6	65.9	52	0.4403
72	2	65.9	52	0.4143

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	3	
"Start Time "	10:44:32	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	132	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	15.42159	
"Max MASS @ "	1	
"Avg MASS "	3.059834	
"Max Diam "	2.645381	
"Max Diam @ "	115	
"Avg Diam "	0.560011	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	15.4	66.6	51	0.8621
2	2.2	66.7	51	0.4666
3	2.5	66.7	52	0.4834
4	2.8	66.7	52	0.5246
5	2.2	66.8	52	0.4573
6	3.2	66.8	52	0.5097
7	2.7	66.9	52	0.4717
8	2.7	66.9	52	0.4708
9	2.1	67	52	0.4514
10	3.1	67	52	0.5024
11	2.3	67.1	52	0.4517
12	2.2	67.1	52	0.447
13	1.7	67.2	51	0.4174
14	2.5	67.2	51	0.4541
15	2.7	67.3	51	0.4512
16	2.3	67.3	51	0.4322
17	2.8	67.4	51	0.4516
18	2.5	67.4	51	0.4408
19	2.3	67.5	51	0.4334
20	2.6	67.5	51	0.4432
21	2.8	67.5	51	0.4874
22	2.8	67.6	51	0.4877
23	2.9	67.7	51	0.4801
24	2.7	67.8	51	0.4887
25	2	67.8	51	0.4511
26	2	67.9	51	0.4474
27	2.5	68	51	0.4719
28	3	68	51	0.5031
29	1.9	68.1	51	0.4385
30	2.5	68.1	50	0.4558
31	2.2	68.1	50	0.4501
32	2.6	68.2	50	0.468
33	2.4	68.2	50	0.4694
34	2	68.3	50	0.443
35	2.2	68.3	50	0.449
36	2.4	68.4	50	0.4487
37	2.3	68.4	50	0.4301

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	3	
"Start Time "	10:44:32	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	132	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	15.42159	
"Max MASS @ "	1	
"Avg MASS "	3.059834	
"Max Diam "	2.645381	
"Max Diam @ "	115	
"Avg Diam "	0.560011	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	3	68.4	50	0.4388
39	2.7	68.5	50	0.4208
40	2.3	68.5	50	0.4054
41	2.5	68.5	50	0.4158
42	2.3	68.6	50	0.4019
43	1.9	68.7	50	0.3913
44	2.3	68.7	50	0.4002
45	2.4	68.7	50	0.3973
46	2.4	68.8	50	0.4068
47	2.5	68.9	50	0.4128
48	2.4	68.9	50	0.4117
49	2.3	68.9	50	0.4095
50	2.8	69	50	0.4335
51	2.1	69	50	0.4113
52	2.1	69.1	50	0.411
53	1.9	69.1	49	0.405
54	2.5	69.1	49	0.4289
55	2	69.2	49	0.4196
56	2.3	69.2	49	0.4285
57	2.3	69.2	49	0.4192
58	3.2	69.3	49	0.4603
59	2.4	69.3	49	0.4207
60	2.2	69.4	49	0.4147
61	2.4	69.4	49	0.4275
62	2.4	69.4	49	0.4194
63	2.3	69.4	49	0.4105
64	2.6	69.4	49	0.4032
65	2.4	69.5	49	0.3983
66	2.1	69.5	48	0.3957
67	1.5	69.5	48	0.3826
68	1.9	69.6	48	0.3913
69	1.8	69.7	48	0.389
70	2.2	69.7	48	0.402
71	1.6	69.7	48	0.3814
72	2.3	69.8	48	0.4019
73	2	69.8	48	0.3923
74	2	69.8	48	0.3933

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	3	
"Start Time "	10:44:32	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	132	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	15.42159	
"Max MASS @ "	1	
"Avg MASS "	3.059834	
"Max Diam "	2.645381	
"Max Diam @ "	115	
"Avg Diam "	0.560011	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	2.6	69.8	48	0.4114
76	8.3	69.8	48	2.4366
77	4.3	69.9	48	0.9313
78	3.8	69.9	48	0.6479
79	4.3	69.9	47	0.6935
80	4.4	70	47	0.646
81	3.7	70	47	0.6305
82	3.9	70	47	0.718
83	4.6	70	47	0.7493
84	3.5	70	47	0.5889
85	4.4	70	47	0.6291
86	4.3	70.1	47	0.5928
87	3.7	70.1	47	0.5316
88	3.8	70.1	47	0.581
89	3.7	70.1	47	0.543
90	3.6	70.1	47	0.5465
91	3.9	70.2	47	0.7548
92	3.8	70.2	47	0.615
93	3.9	70.3	47	0.5633
94	3.8	70.2	47	0.8828
95	3.4	70.3	47	0.6013
96	3.4	70.3	47	0.5811
97	4.1	70.4	47	0.6357
98	3.8	70.4	47	0.606
99	3.6	70.4	47	0.7311
100	3.5	70.4	47	0.6593
101	2.6	70.4	47	0.5241
102	2.8	70.5	47	0.5298
103	2.8	70.5	47	0.5233
104	3.6	70.6	47	0.6105
105	3	70.6	47	0.6146
106	2.9	70.6	46	0.5567
107	3.7	70.7	46	0.5912
108	3.2	70.7	46	0.5971
109	3.6	70.7	46	0.7924
110	3.2	70.8	46	0.7729
111	3.4	70.8	46	0.5917

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	3	
"Start Time "	10:44:32	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	132	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	15.42159	
"Max MASS @ "	1	
"Avg MASS "	3.059834	
"Max Diam "	2.645381	
"Max Diam @ "	115	
"Avg Diam "	0.560011	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
112	2.8	70.8	46	0.4822
113	3.4	70.8	46	0.5367
114	3.3	70.8	46	0.5096
115	9.9	70.8	46	2.6454
116	5.5	70.9	46	1.8506
117	4.9	70.8	46	0.7851
118	5.2	70.9	46	1.3099
119	3.8	70.9	46	0.672
120	3.6	70.9	46	0.631
121	2.8	70.9	46	0.5868
122	3.7	70.9	46	0.7926
123	2.8	70.9	45	0.6409
124	2.8	71	46	0.547
125	3	71	46	0.596
126	2.7	71	45	0.5183
127	3.5	71	45	0.5732
128	2.2	71.1	46	0.4788
129	2.6	71.1	45	0.4895
130	2.6	71.1	46	0.4632
131	2.3	71.1	45	0.4536
132	3	71.2	46	0.5008

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	4	
"Start Time "	13:32:35	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	124	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	4.10312	
"Max MASS @ "	110	
"Avg MASS "	2.836743	
"Max Diam "	1.040295	
"Max Diam @ "	108	
"Avg Diam "	0.543647	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	2.8	72.7	46	0.3567
2	2.5	72.7	45	0.3641
3	3.4	72.8	45	0.3894
4	3.4	72.8	45	0.4225
5	3.1	72.9	44	0.424
6	3.3	72.9	44	0.5325
7	2.9	73	44	0.6113
8	3.4	73.1	44	0.5639
9	3.4	73.2	44	0.5161
10	2.7	73.3	44	0.475
11	2.2	73.4	44	0.437
12	2.7	73.4	43	0.427
13	2.6	73.5	43	0.423
14	3	73.6	43	0.432
15	2.9	73.6	43	0.4411
16	2.3	73.7	43	0.4169
17	2.4	73.8	42	0.4181
18	2.6	73.8	42	0.4215
19	2.4	73.9	42	0.4242
20	2.6	73.9	42	0.4338
21	2.5	74	42	0.4842
22	2.8	74.1	42	0.6175
23	2.5	74.2	42	0.634
24	3.2	74.2	41	0.5836
25	2.5	74.3	41	0.4919
26	3.1	74.3	41	0.494
27	2.9	74.4	41	0.4934
28	2.8	74.4	41	0.4996
29	2.3	74.5	41	0.4812
30	1.9	74.5	41	0.4388
31	3	74.6	41	0.507
32	2.8	74.6	41	0.7656
33	2.8	74.7	40	0.6376
34	2.8	74.7	40	0.6388
35	3.5	74.8	40	0.7087
36	2.7	74.9	40	0.5273
37	2.8	74.9	40	0.5443

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	4	
"Start Time "	13:32:35	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	124	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	4.10312	
"Max MASS @ "	110	
"Avg MASS "	2.836743	
"Max Diam "	1.040295	
"Max Diam @ "	108	
"Avg Diam "	0.543647	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	2.2	75	40	0.47
39	2.7	75.1	40	0.5146
40	2.9	75.1	40	0.6785
41	2.6	75.2	40	0.67
42	2.9	75.3	39	0.7415
43	2.4	75.3	39	0.5721
44	2	75.3	39	0.5082
45	2.9	75.3	39	0.6211
46	2.8	75.4	39	0.5949
47	3.3	75.4	39	0.5593
48	2.3	75.4	39	0.4522
49	2.4	75.4	39	0.4593
50	2.3	75.5	39	0.4393
51	2.3	75.5	39	0.4498
52	2.5	75.5	39	0.4952
53	2	75.5	39	0.4736
54	3.1	75.5	38	0.5978
55	2.2	75.6	38	0.4952
56	3	75.6	38	0.5073
57	2	75.6	38	0.4529
58	2.5	75.6	38	0.4762
59	2	75.6	38	0.4471
60	2.1	75.6	38	0.4492
61	2.7	75.6	38	0.4565
62	2.1	75.6	38	0.4183
63	2.8	75.7	38	0.4375
64	2.6	75.7	38	0.453
65	2.9	75.7	38	0.5331
66	2.8	75.8	38	0.8759
67	2.7	75.8	38	0.6499
68	2.9	75.8	38	0.5943
69	2.4	75.9	38	0.5434
70	2.2	75.9	38	0.5477
71	3	75.9	38	0.5487
72	2.9	75.9	38	0.5027
73	2.1	76	38	0.4475
74	2.9	76	37	0.4808

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	4	
"Start Time "	13:32:35	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	124	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	4.10312	
"Max MASS @ "	110	
"Avg MASS "	2.836743	
"Max Diam "	1.040295	
"Max Diam @ "	108	
"Avg Diam "	0.543647	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	3.7	76	38	0.8984
76	2.8	76.1	37	0.602
77	3.1	76.1	38	0.6861
78	3.5	76.2	37	0.6473
79	2.5	76.2	37	0.5301
80	2.8	76.2	37	0.5368
81	2.8	76.3	37	0.532
82	3.7	76.3	37	0.627
83	3.1	76.3	37	0.6683
84	3.7	76.3	37	0.6818
85	3.8	76.3	37	0.6414
86	2.2	76.4	37	0.4583
87	3.6	76.4	37	0.5567
88	2.3	76.4	37	0.4512
89	2.4	76.4	37	0.451
90	2.4	76.5	37	0.4537
91	2.2	76.5	37	0.4432
92	2.5	76.5	37	0.4551
93	2.8	76.6	37	0.4701
94	2.7	76.6	37	0.5812
95	3.2	76.6	36	0.6014
96	3.1	76.6	36	0.5131
97	3.2	76.6	36	0.4964
98	3.1	76.6	36	0.5005
99	3.7	76.7	36	0.6186
100	3.3	76.7	36	0.6733
101	3.7	76.7	36	0.7455
102	3.5	76.7	36	0.6276
103	3.3	76.7	36	0.5759
104	3.6	76.7	36	0.6374
105	3.1	76.7	36	0.5191
106	2.6	76.8	36	0.5831
107	2.9	76.7	36	0.8223
108	3.5	76.7	36	1.0403
109	3.4	76.7	36	0.6004
110	4.1	76.8	36	0.933
111	3.5	76.8	36	0.7824

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	4	
"Start Time "	13:32:35	
"Start Date "	09-Jun-2016	
"Log Period "	00:01:00	
"Number "	124	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	4.10312	
"Max MASS @ "	110	
"Avg MASS "	2.836743	
"Max Diam "	1.040295	
"Max Diam @ "	108	
"Avg Diam "	0.543647	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
112	2.6	76.9	36	0.4949
113	2.8	76.9	36	0.5014
114	3	76.9	36	0.5435
115	2.6	77	36	0.4974
116	2.2	77	36	0.4773
117	3.7	77	36	0.5738
118	3.6	77.1	36	0.5768
119	2.7	77.1	36	0.5045
120	3.3	77.1	35	0.5163
121	2.7	77.2	35	0.5165
122	2.9	77.2	35	0.528
123	3.2	77.2	36	0.4804
124	3.1	77.3	35	0.4671

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	5	
"Start Time "	08:18:04	
"Start Date "	10-Jun-2016	
"Log Period "	00:01:00	
"Number "	127	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	8.626417	
"Max MASS @ "	64	
"Avg MASS "	2.393856	
"Max Diam "	1.217322	
"Max Diam @ "	98	
"Avg Diam "	0.477587	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	4	67.4	41	0.3604
2	3.2	67.4	41	0.4074
3	4.1	67.4	41	0.5748
4	1.6	67.4	41	0.4636
5	2.1	67.3	41	0.5055
6	2.1	67.3	41	0.504
7	2	67.3	41	0.494
8	2.5	67.3	41	0.5488
9	2.4	67.2	41	0.4846
10	1.9	67.2	41	0.4408
11	3.3	67.2	41	0.5191
12	2.1	67.2	41	0.4324
13	1.9	67.1	41	0.4116
14	2.2	67.1	41	0.4278
15	2.5	67.1	41	0.4503
16	2.5	67.1	41	0.5827
17	1.9	67	41	0.4733
18	1.9	67	42	0.4747
19	2.2	67	42	0.4961
20	2.3	67	42	0.6769
21	2.3	66.9	42	0.6097
22	2.9	66.9	42	0.5395
23	2.2	66.9	42	0.4492
24	2.7	66.9	42	0.4761
25	2	66.8	42	0.4288
26	2.2	66.8	42	0.437
27	2.8	66.8	42	0.4693
28	1.8	66.8	42	0.4155
29	2.7	66.8	42	0.4526
30	2.6	66.7	42	0.4257
31	1.8	66.7	42	0.3915
32	2.1	66.7	42	0.3897
33	2	66.7	42	0.3652
34	1.5	66.7	42	0.3727
35	1.5	66.7	42	0.3791
36	3.1	66.7	42	0.4373
37	2	66.7	42	0.4059

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	5	
"Start Time "	08:18:04	
"Start Date "	10-Jun-2016	
"Log Period "	00:01:00	
"Number "	127	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	8.626417	
"Max MASS @ "	64	
"Avg MASS "	2.393856	
"Max Diam "	1.217322	
"Max Diam @ "	98	
"Avg Diam "	0.477587	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	2.4	66.7	42	0.4113
39	1.8	66.7	43	0.3926
40	2.2	66.7	43	0.4043
41	2	66.7	43	0.3981
42	1.5	66.7	43	0.3841
43	2	66.7	43	0.3987
44	1.8	66.7	43	0.3911
45	2.2	66.7	43	0.4052
46	2.7	66.7	43	0.4215
47	2.5	66.7	43	0.4251
48	2	66.7	43	0.4067
49	2.1	66.7	43	0.4155
50	2.3	66.7	43	0.4341
51	2.2	66.6	43	0.4297
52	2.4	66.7	43	0.4335
53	1.8	66.7	43	0.4005
54	2.6	66.6	43	0.4489
55	2.1	66.6	43	0.4073
56	2.3	66.6	43	0.4146
57	3.4	66.6	43	0.5927
58	2.5	66.6	43	0.5381
59	3.6	66.6	43	0.5383
60	2.6	66.6	43	0.5343
61	2.3	66.6	43	0.496
62	2	66.6	43	0.4675
63	2.1	66.6	43	0.4763
64	8.6	66.6	43	0.4315
65	2.2	66.6	44	0.3624
66	2	66.6	44	0.3608
67	1.8	66.6	44	0.3591
68	1.8	66.6	44	0.3591
69	1.9	66.6	44	0.3607
70	2	66.6	44	0.362
71	2.6	66.6	44	0.4031
72	2.2	66.6	44	0.4016
73	2.1	66.7	44	0.3999
74	3.1	66.7	44	0.4251

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	5	
"Start Time "	08:18:04	
"Start Date "	10-Jun-2016	
"Log Period "	00:01:00	
"Number "	127	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	8.626417	
"Max MASS @ "	64	
"Avg MASS "	2.393856	
"Max Diam "	1.217322	
"Max Diam @ "	98	
"Avg Diam "	0.477587	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	2.5	66.7	44	0.4281
76	2.1	66.7	44	0.41
77	2.1	66.7	44	0.4136
78	2.6	66.8	44	0.4218
79	2.4	66.7	44	0.4086
80	2.4	66.8	44	0.4196
81	2.4	66.7	45	0.4195
82	6.5	66.8	45	1.0162
83	1.6	66.8	45	0.4665
84	4.1	66.8	45	1.1531
85	2.7	66.8	45	0.6768
86	1.5	66.8	45	0.4433
87	2.7	66.8	45	0.6084
88	2.5	66.8	45	0.5269
89	2.1	66.9	45	0.4815
90	2.9	66.9	45	0.5281
91	2.5	66.9	45	0.5245
92	3	66.9	45	0.5444
93	2.1	66.9	45	0.4498
94	2.8	66.9	45	0.4784
95	2	66.9	45	0.4239
96	1.8	67	45	0.4179
97	3.1	66.9	45	0.5414
98	5.4	66.9	45	1.2173
99	2.6	67	45	0.5568
100	2.7	67	45	0.4919
101	1.2	67	45	0.385
102	1	67	45	0.3789
103	1.5	67	45	0.4
104	1.9	67	45	0.4165
105	1.9	67.1	45	0.4163
106	2.1	67.1	45	0.4066
107	5.7	67.1	45	0.7986
108	1.6	67.1	44	0.4612
109	2.7	67.1	44	0.5755
110	2.2	67.1	44	0.5238
111	1.5	67.1	44	0.4495

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	5	
"Start Time "	08:18:04	
"Start Date "	10-Jun-2016	
"Log Period "	00:01:00	
"Number "	127	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	8.626417	
"Max MASS @ "	64	
"Avg MASS "	2.393856	
"Max Diam "	1.217322	
"Max Diam @ "	98	
"Avg Diam "	0.477587	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
112	2.2	67.1	44	0.462
113	3	67.1	44	0.5873
114	2.1	67.1	44	0.5845
115	4	67.1	44	1.1171
116	1.9	67.2	44	0.5033
117	1.6	67.2	44	0.4313
118	2	67.2	44	0.452
119	1.5	67.2	44	0.4215
120	1.8	67.2	44	0.443
121	1.4	67.3	44	0.4195
122	1.7	67.3	44	0.4338
123	1.7	67.3	44	0.4333
124	2	67.3	44	0.4558
125	1.5	67.3	44	0.425
126	2.1	67.3	44	0.4595
127	2.4	67.3	44	0.4794

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	6	
"Start Time "	11:07:31	
"Start Date "	10-Jun-2016	
"Log Period "	00:01:00	
"Number "	128	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	15.82401	
"Max MASS @ "	1	
"Avg MASS "	2.993884	
"Max Diam "	1.405458	
"Max Diam @ "	102	
"Avg Diam "	0.55747	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	1000	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	15.8	68.4	44	0.731
2	4.1	68.5	44	0.797
3	5.3	68.5	44	0.6192
4	3	68.7	44	0.4473
5	2.7	68.7	44	0.4811
6	3	68.8	45	0.5124
7	3.5	68.9	44	0.5358
8	3.1	68.9	45	0.5781
9	2.3	69	45	0.5459
10	3.3	69	44	0.5885
11	3.7	69.1	44	0.9354
12	3.2	69.1	44	0.9166
13	3.4	69.2	44	0.682
14	2.5	69.3	44	0.5117
15	3.6	69.3	44	0.5291
16	2.9	69.4	44	0.4962
17	4	69.5	44	0.8101
18	2.6	69.6	44	0.5165
19	2.7	69.7	44	0.4996
20	2.7	69.7	44	0.4653
21	2.3	69.8	43	0.4567
22	2.8	69.9	43	0.4756
23	2.6	69.9	43	0.4679
24	3.2	70	43	0.4902
25	3.3	70	43	0.5072
26	3.2	70.1	43	0.5099
27	2.4	70.2	44	0.4822
28	2.9	70.2	43	0.5685
29	2.5	70.3	44	0.4929
30	3.4	70.4	43	0.553
31	2.2	70.4	44	0.4796
32	3.4	70.5	44	0.6696
33	2.2	70.6	44	0.4336
34	2.6	70.6	44	0.5254
35	2.9	70.7	44	0.583
36	3.7	70.7	44	0.6353
37	2.9	70.8	44	0.4961

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	6	
"Start Time "	11:07:31	
"Start Date "	10-Jun-2016	
"Log Period "	00:01:00	
"Number "	128	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	15.82401	
"Max MASS @ "	1	
"Avg MASS "	2.993884	
"Max Diam "	1.405458	
"Max Diam @ "	102	
"Avg Diam "	0.55747	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	1000	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	2.4	70.8	44	0.4688
39	2.7	70.9	44	0.4754
40	2.6	70.9	44	0.4976
41	2.7	71	44	0.5135
42	2.9	71	44	0.4966
43	2.6	71	44	0.4883
44	2.7	71.1	44	0.4869
45	1.9	71.1	43	0.439
46	2.7	71.2	43	0.478
47	3.2	71.2	43	0.5336
48	2.8	71.3	43	0.6063
49	2.7	71.4	44	0.5923
50	3	71.4	44	0.5062
51	2	71.5	43	0.4242
52	2.8	71.5	43	0.4384
53	3.3	71.6	43	0.5446
54	2.9	71.6	44	0.5362
55	3.6	71.6	44	0.872
56	2.9	71.7	44	0.5969
57	2.8	71.7	44	0.5057
58	2.8	71.8	44	0.4672
59	2.8	71.8	44	0.4659
60	2.8	71.9	44	0.5749
61	3	71.9	44	0.7369
62	3.1	72	44	0.6044
63	3.5	72.1	44	0.5537
64	3.1	72.1	44	0.5014
65	2.8	72.2	44	0.4542
66	2.8	72.3	44	0.461
67	3.5	72.3	44	0.4411
68	3.1	72.4	44	0.4056
69	2.8	72.5	43	0.4125
70	2.5	72.6	43	0.4399
71	2.6	72.6	44	0.4368
72	2.9	72.7	43	0.5167
73	2.6	72.7	43	0.4671
74	2.5	72.8	43	0.4421

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	6	
"Start Time "	11:07:31	
"Start Date "	10-Jun-2016	
"Log Period "	00:01:00	
"Number "	128	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	15.82401	
"Max MASS @ "	1	
"Avg MASS "	2.993884	
"Max Diam "	1.405458	
"Max Diam @ "	102	
"Avg Diam "	0.55747	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	1000	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	1.8	72.9	43	0.3765
76	3.5	72.9	43	0.7037
77	2.8	73	43	0.6326
78	2.7	73	42	0.5235
79	2.6	73.1	42	0.521
80	3.6	73.2	43	0.7114
81	2.6	73.2	42	0.552
82	2.4	73.3	43	0.5926
83	3.5	73.4	43	0.7867
84	3	73.4	43	0.6132
85	2.8	73.5	43	0.6418
86	3.1	73.5	42	0.5115
87	2.6	73.6	42	0.4533
88	3.3	73.7	43	0.5428
89	3.1	73.7	42	0.561
90	3	73.8	42	0.5
91	2.4	73.8	42	0.4594
92	2.6	73.9	42	0.4521
93	2.6	73.9	42	0.4692
94	2.8	73.9	43	0.4823
95	2.7	74	43	0.4797
96	2.6	74.1	42	0.5042
97	2.8	74.2	42	0.4849
98	2.8	74.2	42	0.4677
99	2.3	74.3	42	0.4388
100	3.4	74.4	42	0.4828
101	2.5	74.4	42	0.6721
102	3.9	74.5	42	1.4055
103	3.3	74.5	42	0.8167
104	3.7	74.5	42	0.7021
105	2.9	74.6	42	0.6413
106	2.5	74.7	42	0.6329
107	3.4	74.7	41	1.053
108	2.1	74.8	41	0.5349
109	3.1	74.8	42	0.6384
110	3	74.9	42	0.5825
111	2.5	75	41	0.4811

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	6	
"Start Time "	11:07:31	
"Start Date "	10-Jun-2016	
"Log Period "	00:01:00	
"Number "	128	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	15.82401	
"Max MASS @ "	1	
"Avg MASS "	2.993884	
"Max Diam "	1.405458	
"Max Diam @ "	102	
"Avg Diam "	0.55747	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	1000	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
112	1.4	75	42	0.4095
113	2	75.1	42	0.4361
114	3	75.1	41	0.564
115	1.9	75.2	41	0.454
116	3.5	75.2	41	0.5805
117	3.3	75.2	41	0.5869
118	3.1	75.3	41	0.5669
119	2.4	75.4	41	0.4982
120	3.6	75.4	41	0.6597
121	2.9	75.4	41	0.5645
122	2.7	75.5	41	0.6088
123	2.6	75.5	41	0.6252
124	2.5	75.6	41	0.595
125	3	75.6	41	0.5588
126	2	75.7	41	0.4177
127	2.3	75.7	41	0.4547
128	3.8	75.8	41	0.7632

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	7	
"Start Time "	14:50:59	
"Start Date "	10-Jun-2016	
"Log Period "	00:01:00	
"Number "	40	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	31.96362	
"Max MASS @ "	1	
"Avg MASS "	3.792159	
"Max Diam "	3.023228	
"Max Diam @ "	1	
"Avg Diam "	0.669126	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	1000	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	32	78.9	40	3.0232
2	25.1	78.9	39	2.8783
3	4.4	79	39	1.6851
4	2.6	79	39	0.5666
5	2.3	79	38	0.5192
6	2.3	79	38	0.4611
7	2.6	79	38	0.4897
8	3	79	38	0.5245
9	2.7	79.1	38	0.5604
10	5	79.1	38	0.8927
11	1.2	79.1	37	0.4038
12	1.5	79.2	37	0.4114
13	1.7	79.1	37	0.4116
14	2.4	79.2	37	0.4616
15	2.1	79.2	37	0.4606
16	1.9	79.2	37	0.437
17	2.6	79.2	37	0.5176
18	2.4	79.2	37	0.4983
19	1.4	79.2	36	0.4035
20	1.6	79.2	36	0.4216
21	3	79.2	36	0.5504
22	2	79.3	36	0.4111
23	2.1	79.2	36	0.3993
24	1.2	79.3	36	0.3691
25	1.8	79.3	36	0.347
26	2.3	79.3	36	0.3435
27	2	79.3	36	0.3564
28	1.9	79.3	36	0.3568
29	1.7	79.3	36	0.3552
30	2.1	79.2	35	0.3677
31	2.4	79.3	35	0.4631
32	2.8	79.2	36	0.6463
33	2.5	79.2	36	0.5661
34	2.1	79.2	36	0.566
35	2.9	79.2	36	0.7786
36	7.1	79.2	36	1.8284
37	2.5	79.2	36	0.5382

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	7	
"Start Time "	14:50:59	
"Start Date "	10-Jun-2016	
"Log Period "	00:01:00	
"Number "	40	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	31.96362	
"Max MASS @ "	1	
"Avg MASS "	3.792159	
"Max Diam "	3.023228	
"Max Diam @ "	1	
"Avg Diam "	0.669126	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	1000	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	2.2	79.2	36	0.4814
39	1.5	79.1	36	0.4602
40	4.6	79.1	36	0.5524

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	8	
"Start Time "	08:24:24	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	121	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337484	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0	75.4	47	0.3368
2	0	75.5	51	0.3375
3	0	75.7	54	0.3375
4	0	75.9	55	0.3375
5	0	76.1	56	0.3375
6	0	76.3	57	0.3375
7	0	76.4	58	0.3375
8	0	76.6	59	0.3375
9	0	76.8	59	0.3375
10	0	77	59	0.3375
11	0	77.1	60	0.3375
12	0	77.2	60	0.3375
13	0	77.3	60	0.3375
14	0	77.5	60	0.3375
15	0	77.6	61	0.3375
16	0	77.7	61	0.3375
17	0	77.9	61	0.3375
18	0	78	61	0.3375
19	0	78.1	61	0.3375
20	0	78.2	61	0.3375
21	0	78.2	61	0.3375
22	0	78.3	61	0.3375
23	0	78.4	61	0.3375
24	0	78.5	61	0.3375
25	0	78.6	61	0.3375
26	0	78.7	61	0.3375
27	0	78.8	61	0.3375
28	0	78.8	61	0.3375
29	0	78.9	61	0.3375
30	0	79	61	0.3375
31	0	79	61	0.3375
32	0	79.1	61	0.3375
33	0	79.1	61	0.3375
34	0	79.2	61	0.3375
35	0	79.3	61	0.3375
36	0	79.3	61	0.3375
37	0	79.4	61	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	8	
"Start Time "	08:24:24	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	121	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337484	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	0	79.4	61	0.3375
39	0	79.5	61	0.3375
40	0	79.6	61	0.3375
41	0	79.6	61	0.3375
42	0	79.7	61	0.3375
43	0	79.8	60	0.3375
44	0	79.8	60	0.3375
45	0	79.9	60	0.3375
46	0	79.9	60	0.3375
47	0	79.9	60	0.3375
48	0	80	60	0.3375
49	0	80	59	0.3375
50	0	80.1	60	0.3375
51	0	80.1	59	0.3375
52	0	80.1	59	0.3375
53	0	80.2	59	0.3375
54	0	80.2	59	0.3375
55	0	80.3	59	0.3375
56	0	80.3	59	0.3375
57	0	80.4	59	0.3375
58	0	80.5	59	0.3375
59	0	80.6	59	0.3375
60	0	80.6	59	0.3375
61	0	80.6	59	0.3375
62	0	80.6	59	0.3375
63	0	80.7	59	0.3375
64	0	80.7	59	0.3375
65	0	80.8	59	0.3375
66	0	80.8	59	0.3375
67	0	80.9	59	0.3375
68	0	80.9	59	0.3375
69	0	80.9	59	0.3375
70	0	80.9	59	0.3375
71	0	81	59	0.3375
72	0	81	59	0.3375
73	0	81.1	59	0.3375
74	0	81.1	59	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	8	
"Start Time "	08:24:24	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	121	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337484	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	0	81.2	58	0.3375
76	0	81.3	58	0.3375
77	0	81.3	58	0.3375
78	0	81.4	58	0.3375
79	0	81.4	58	0.3375
80	0	81.5	58	0.3375
81	0	81.6	58	0.3375
82	0	81.6	58	0.3375
83	0	81.7	58	0.3375
84	0	81.8	58	0.3375
85	0	81.9	57	0.3375
86	0	82	57	0.3375
87	0	82.1	57	0.3375
88	0	82.2	57	0.3375
89	0	82.4	57	0.3375
90	0	82.5	56	0.3375
91	0	82.6	56	0.3375
92	0	82.7	56	0.3375
93	0	82.9	56	0.3375
94	0	83	55	0.3375
95	0	83.2	55	0.3375
96	0	83.4	55	0.3375
97	0	83.5	55	0.3375
98	0	83.7	54	0.3375
99	0	83.8	54	0.3375
100	0	84	53	0.3375
101	0	84.2	53	0.3375
102	0	84.3	53	0.3375
103	0	84.5	53	0.3375
104	0	84.6	52	0.3375
105	0	84.8	52	0.3375
106	0	85	51	0.3375
107	0	85.2	51	0.3375
108	0	85.3	51	0.3375
109	0	85.5	50	0.3375
110	0	85.7	50	0.3375
111	0	85.9	49	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	8	
"Start Time "	08:24:24	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	121	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337484	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
112	0	86	49	0.3375
113	0	86.2	49	0.3375
114	0	86.3	48	0.3375
115	0	86.5	48	0.3375
116	0	86.6	48	0.3375
117	0	86.9	47	0.3375
118	0	87	47	0.3375
119	0	87.1	47	0.3375
120	0	87.3	47	0.3375
121	0	87.4	47	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	9	
"Start Time "	11:20:21	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	27	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.33745	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0	90.7	46	0.3364
2	0	90.7	44	0.3375
3	0	90.7	43	0.3375
4	0	90.6	42	0.3375
5	0	90.5	41	0.3375
6	0	90.5	41	0.3375
7	0	90.5	41	0.3375
8	0	90.4	41	0.3375
9	0	90.4	41	0.3375
10	0	90.3	40	0.3375
11	0	90.3	40	0.3375
12	0	90.2	40	0.3375
13	0	90.1	40	0.3375
14	0	90.1	40	0.3375
15	0	90.1	41	0.3375
16	0	90	40	0.3375
17	0	90	40	0.3375
18	0	90	40	0.3375
19	0	90	40	0.3375
20	0	90	40	0.3375
21	0	89.9	40	0.3375
22	0	89.9	40	0.3375
23	0	89.8	40	0.3375
24	0	89.9	40	0.3375
25	0	89.8	40	0.3375
26	0	89.8	39	0.3375
27	0	89.8	40	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	10	
"Start Time "	12:03:59	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	42	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337464	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0	89.4	40	0.3364
2	0	89.3	40	0.3375
3	0	89.4	40	0.3375
4	0	89.4	40	0.3375
5	0	89.4	40	0.3375
6	0	89.4	40	0.3375
7	0	89.5	40	0.3375
8	0	89.5	40	0.3375
9	0	89.5	40	0.3375
10	0	89.5	40	0.3375
11	0	89.5	40	0.3375
12	0	89.5	40	0.3375
13	0	89.6	40	0.3375
14	0	89.6	40	0.3375
15	0	89.6	40	0.3375
16	0	89.6	40	0.3375
17	0	89.6	40	0.3375
18	0	89.6	40	0.3375
19	0	89.6	40	0.3375
20	0	89.6	40	0.3375
21	0	89.6	40	0.3375
22	0	89.6	40	0.3375
23	0	89.7	40	0.3375
24	0	89.6	40	0.3375
25	0	89.6	40	0.3375
26	0	89.7	40	0.3375
27	0	89.7	40	0.3375
28	0	89.7	40	0.3375
29	0	89.7	40	0.3375
30	0	89.7	40	0.3375
31	0	89.7	40	0.3375
32	0	89.7	40	0.3375
33	0	89.7	40	0.3375
34	0	89.8	40	0.3375
35	0	89.8	39	0.3375
36	0	89.8	40	0.3375
37	0	89.8	40	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	10	
"Start Time "	12:03:59	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	42	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337464	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	0	89.7	39	0.3375
39	0	89.8	39	0.3375
40	0	89.8	39	0.3375
41	0	89.8	39	0.3375
42	0	89.8	39	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	11	
"Start Time "	13:38:00	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	55	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0.206997	
"Max MASS @ "	1	
"Avg MASS "	0.003764	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337421	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0.2	90.6	39	0.3337
2	0	90.6	39	0.3375
3	0	90.6	39	0.3375
4	0	90.7	38	0.3375
5	0	90.7	38	0.3375
6	0	90.8	38	0.3375
7	0	90.8	37	0.3375
8	0	90.9	37	0.3375
9	0	91	37	0.3375
10	0	91	37	0.3375
11	0	91.1	37	0.3375
12	0	91.1	37	0.3375
13	0	91.2	37	0.3375
14	0	91.3	37	0.3375
15	0	91.4	36	0.3375
16	0	91.4	36	0.3375
17	0	91.4	36	0.3375
18	0	91.5	36	0.3375
19	0	91.5	36	0.3375
20	0	91.5	36	0.3375
21	0	91.6	35	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	11	
"Start Time "	13:38:00	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	55	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0.206997	
"Max MASS @ "	1	
"Avg MASS "	0.003764	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337421	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
22	0	91.7	35	0.3375
23	0	91.7	35	0.3375
24	0	91.7	35	0.3375
25	0	91.7	35	0.3375
26	0	91.8	35	0.3375
27	0	91.8	35	0.3375
28	0	91.8	35	0.3375
29	0	91.9	35	0.3375
30	0	91.8	34	0.3375
31	0	91.9	34	0.3375
32	0	91.9	34	0.3375
33	0	91.9	34	0.3375
34	0	92	34	0.3375
35	0	92.1	34	0.3375
36	0	92.1	34	0.3375
37	0	92.2	33	0.3375
38	0	92.2	33	0.3375
39	0	92.2	33	0.3375
40	0	92.3	33	0.3375
41	0	92.3	33	0.3375
42	0	92.3	33	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	11	
"Start Time "	13:38:00	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	55	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0.206997	
"Max MASS @ "	1	
"Avg MASS "	0.003764	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337421	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
43	0	92.3	33	0.3375
44	0	92.4	33	0.3375
45	0	92.4	33	0.3375
46	0	92.4	33	0.3375
47	0	92.4	33	0.3375
48	0	92.5	33	0.3375
49	0	92.5	33	0.3375
50	0	92.5	33	0.3375
51	0	92.5	33	0.3375
52	0	92.5	33	0.3375
53	0	92.5	33	0.3375
54	0	92.5	33	0.3375
55	0	92.5	32	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	12	
"Start Time "	15:05:42	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	66	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337479	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0	91.9	33	0.3368
2	0	91.8	33	0.3375
3	0	91.8	33	0.3375
4	0	91.7	33	0.3375
5	0	91.7	32	0.3375
6	0	91.7	33	0.3375
7	0	91.6	32	0.3375
8	0	91.6	32	0.3375
9	0	91.5	32	0.3375
10	0	91.5	32	0.3375
11	0	91.4	32	0.3375
12	0	91.4	32	0.3375
13	0	91.3	32	0.3375
14	0	91.2	32	0.3375
15	0	91.1	32	0.3375
16	0	91	32	0.3375
17	0	91	32	0.3375
18	0	90.9	32	0.3375
19	0	90.8	32	0.3375
20	0	90.6	32	0.3375
21	0	90.6	32	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	12	
"Start Time "	15:05:42	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	66	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337479	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
22	0	90.5	32	0.3375
23	0	90.4	32	0.3375
24	0	90.3	32	0.3375
25	0	90.2	32	0.3375
26	0	90	32	0.3375
27	0	90	32	0.3375
28	0	89.8	32	0.3375
29	0	89.7	32	0.3375
30	0	89.6	32	0.3375
31	0	89.5	32	0.3375
32	0	89.4	32	0.3375
33	0	89.2	32	0.3375
34	0	89.1	32	0.3375
35	0	89	32	0.3375
36	0	88.9	33	0.3375
37	0	88.8	33	0.3375
38	0	88.7	33	0.3375
39	0	88.6	33	0.3375
40	0	88.5	33	0.3375
41	0	88.3	33	0.3375
42	0	88.2	33	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	12	
"Start Time "	15:05:42	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	66	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337479	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
43	0	88.1	33	0.3375
44	0	88	33	0.3375
45	0	87.9	33	0.3375
46	0	87.8	33	0.3375
47	0	87.7	33	0.3375
48	0	87.5	33	0.3375
49	0	87.4	34	0.3375
50	0	87.3	34	0.3375
51	0	87.2	33	0.3375
52	0	87.1	34	0.3375
53	0	87	34	0.3375
54	0	86.9	34	0.3375
55	0	86.8	34	0.3375
56	0	86.7	34	0.3375
57	0	86.5	34	0.3375
58	0	86.4	34	0.3375
59	0	86.3	34	0.3375
60	0	86.3	34	0.3375
61	0	86.2	34	0.3375
62	0	86.1	34	0.3375
63	0	86	34	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	12	
"Start Time "	15:05:42	
"Start Date "	12-Jun-2016	
"Log Period "	00:01:00	
"Number "	66	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337479	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	100	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
64	0	85.9	34	0.3375
65	0	85.8	34	0.3375
66	0	85.7	34	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	13	
"Start Time "	08:12:40	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	28	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	2.744706	
"Max MASS @ "	1	
"Avg MASS "	1.471777	
"Max Diam "	0.76909	
"Max Diam @ "	6	
"Avg Diam "	0.48996	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	2.7	66.2	39	0.3782
2	1.1	66.2	41	0.3567
3	1.4	66.2	42	0.385
4	1.7	66.3	43	0.4096
5	2.3	66.3	44	0.7407
6	2.4	66.3	45	0.7691
7	1	66.3	45	0.4272
8	1.5	66.3	45	0.4765
9	1.3	66.3	46	0.4604
10	0.7	66.3	47	0.3956
11	1.9	66.3	47	0.5051
12	1.8	66.3	47	0.4467
13	2.4	66.3	48	0.5337
14	1.7	66.4	48	0.5967
15	2.4	66.3	48	0.6961
16	1.5	66.4	48	0.5753
17	0.9	66.4	48	0.4512
18	2.2	66.4	49	0.5994
19	0.9	66.4	49	0.4306
20	1	66.4	49	0.4366
21	1	66.4	49	0.4479
22	1	66.4	49	0.4376
23	1.4	66.4	49	0.4726
24	0.5	66.4	49	0.3754
25	0.9	66.4	49	0.4116
26	0.9	66.4	50	0.4073
27	1.3	66.4	50	0.4434
28	1.3	66.4	50	0.6528

=~=~=~=~=~=~=~=~=~=~=~=~=~=~= PuTTY log 2016.06.13 21:51:29 =~=~=~=~=~=~=~=~=~=~=~=~=~=~=

"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	14	
"Start Time "	08:58:43	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	246	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	5.69521	
"Max MASS @ "	1	
"Avg MASS "	0.777295	
"Max Diam "	0.56873	
"Max Diam @ "	153	
"Avg Diam "	0.38442	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	5.7	68.1	48	0.3949
2	0.7	68.2	48	0.3575
3	0.5	68.2	49	0.3549
4	0.6	68.3	49	0.3567
5	0.9	68.4	49	0.3661
6	1.1	68.5	49	0.3708
7	1.3	68.6	49	0.3779
8	0.4	68.8	49	0.3496
9	1	68.8	49	0.37
10	0.8	68.9	49	0.3604
11	0.8	69	49	0.3596
12	0.4	69.1	48	0.3501
13	0.4	69.1	49	0.3498
14	0.4	69.1	49	0.351
15	0.2	69.2	49	0.3446
16	0.4	69.2	49	0.3497
17	0.4	69.3	49	0.35
18	0.8	69.3	48	0.3637
19	0.4	69.3	48	0.3492
20	0.8	69.4	49	0.3614
21	0.7	69.4	48	0.3579
22	0.8	69.4	48	0.3608
23	0.3	69.5	48	0.348
24	0.7	69.5	48	0.3596
25	0.6	69.5	48	0.3564
26	0.8	69.6	48	0.3608
27	1.2	69.7	48	0.375
28	1.1	69.7	48	0.3715
29	1.5	69.8	48	0.3847
30	1.3	69.8	48	0.3786
31	0.9	69.9	48	0.3635
32	0.6	70	48	0.3562
33	1.1	70	48	0.3725
34	1.3	70	48	0.3788
35	0.9	70.1	48	0.3766
36	0.9	70.2	48	0.3799
37	1.3	70.3	48	0.3987

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	14	
"Start Time "	08:58:43	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	246	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	5.69521	
"Max MASS @ "	1	
"Avg MASS "	0.777295	
"Max Diam "	0.56873	
"Max Diam @ "	153	
"Avg Diam "	0.38442	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	0.2	70.4	48	0.3463
39	0.7	70.5	48	0.3817
40	1.7	70.6	48	0.4747
41	1	70.7	48	0.413
42	0.7	70.8	48	0.3845
43	0.9	70.9	48	0.3972
44	0.6	70.9	47	0.3742
45	0.9	71	47	0.4003
46	0.7	71.1	48	0.3813
47	1.3	71.2	47	0.4275
48	0.2	71.3	47	0.3529
49	0.6	71.4	47	0.3761
50	0.8	71.5	47	0.3869
51	1	71.5	47	0.4097
52	1.1	71.6	47	0.4151
53	0.9	71.6	47	0.4007
54	0.8	71.6	47	0.39
55	1	71.7	47	0.4128
56	1.3	71.7	47	0.4515
57	0.5	71.7	46	0.3881
58	0.5	71.7	47	0.3789
59	0.8	71.8	46	0.4059
60	1	71.8	46	0.4275
61	0.7	71.8	46	0.4006
62	0.5	71.8	46	0.3747
63	1	71.8	46	0.4267
64	2.2	71.8	46	0.537
65	0.6	71.8	46	0.3744
66	0.6	71.8	46	0.3768
67	0.1	71.7	46	0.3417
68	0.7	71.7	46	0.3819
69	1.4	71.7	46	0.4338
70	0.1	71.7	46	0.3463
71	0.9	71.6	46	0.3934
72	0.7	71.6	46	0.3817
73	0.9	71.6	46	0.4735
74	0.8	71.6	46	0.411

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	14	
"Start Time "	08:58:43	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	246	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	5.69521	
"Max MASS @ "	1	
"Avg MASS "	0.777295	
"Max Diam "	0.56873	
"Max Diam @ "	153	
"Avg Diam "	0.38442	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	0.4	71.6	46	0.3699
76	0.2	71.6	46	0.3499
77	0.6	71.6	46	0.3971
78	1.1	71.5	46	0.4403
79	0.5	71.5	46	0.3837
80	0.9	71.5	46	0.4218
81	0.9	71.4	46	0.4651
82	0.2	71.4	46	0.3586
83	0.5	71.4	46	0.3895
84	0.7	71.3	46	0.4192
85	0.6	71.3	46	0.4075
86	0.9	71.3	46	0.4371
87	0.3	71.3	46	0.3594
88	0.6	71.3	46	0.3835
89	1.1	71.3	46	0.4213
90	0.9	71.3	46	0.4044
91	0.9	71.3	46	0.4033
92	0.5	71.2	46	0.3752
93	0.5	71.2	46	0.3738
94	0.6	71.2	46	0.3812
95	0.8	71.2	46	0.398
96	0.2	71.2	46	0.3533
97	1.2	71.2	46	0.428
98	0.9	71.2	46	0.4068
99	0.4	71.2	46	0.3682
100	0.7	71.2	46	0.3895
101	0.5	71.2	46	0.3698
102	0.2	71.2	46	0.354
103	0.7	71.2	47	0.3913
104	0.5	71.3	47	0.3786
105	0.4	71.3	47	0.3636
106	0.2	71.4	47	0.3558
107	0.5	71.4	47	0.3734
108	1	71.4	47	0.4125
109	0.8	71.4	47	0.3996
110	0.2	71.5	47	0.3488
111	0.6	71.5	47	0.3844

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	14	
"Start Time "	08:58:43	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	246	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	5.69521	
"Max MASS @ "	1	
"Avg MASS "	0.777295	
"Max Diam "	0.56873	
"Max Diam @ "	153	
"Avg Diam "	0.38442	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
112	0.4	71.5	47	0.3701
113	1.1	71.6	47	0.4237
114	0.8	71.6	47	0.3962
115	1.4	71.6	47	0.4622
116	1.1	71.6	47	0.428
117	1	71.6	47	0.4187
118	1.2	71.6	47	0.4318
119	0.5	71.7	47	0.3795
120	1.6	71.7	47	0.4698
121	0.4	71.7	47	0.3639
122	0.6	71.8	47	0.3754
123	0.3	71.8	47	0.3596
124	0.1	71.8	47	0.3474
125	0.4	71.9	47	0.3672
126	0.9	71.8	47	0.401
127	0.4	71.9	47	0.3625
128	0.9	71.9	47	0.3961
129	0.6	71.9	47	0.3744
130	1.1	71.9	47	0.4124
131	0.2	71.9	47	0.3515
132	0.5	71.9	47	0.3726
133	0.4	71.9	47	0.3629
134	0.8	71.9	47	0.3916
135	0.8	72	47	0.3906
136	1.2	72	47	0.4222
137	0.8	72	47	0.3968
138	1.5	72	48	0.4408
139	1.2	72	48	0.4253
140	1	72.1	48	0.4066
141	0.3	72.1	48	0.3537
142	0.6	72.2	48	0.3761
143	1	72.2	48	0.4073
144	1.7	72.3	47	0.4512
145	0.8	72.4	48	0.3794
146	1.3	72.5	47	0.4088
147	0.9	72.5	47	0.3834
148	0.6	72.5	47	0.3705

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	14	
"Start Time "	08:58:43	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	246	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	5.69521	
"Max MASS @ "	1	
"Avg MASS "	0.777295	
"Max Diam "	0.56873	
"Max Diam @ "	153	
"Avg Diam "	0.38442	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
149	0.6	72.6	47	0.3712
150	0.2	72.7	47	0.3467
151	1	72.8	47	0.4936
152	0.8	72.8	47	0.4397
153	1.8	72.9	47	0.5687
154	1.5	72.9	47	0.5069
155	1	73	47	0.4521
156	0.8	73	46	0.4182
157	0.9	73.1	46	0.4213
158	1.1	73.2	47	0.4368
159	0.9	73.2	46	0.4071
160	0.7	73.3	46	0.3898
161	1.2	73.4	46	0.415
162	0.6	73.4	46	0.3772
163	0.7	73.5	46	0.3843
164	0.7	73.5	46	0.3822
165	0.5	73.5	46	0.369
166	1.1	73.5	46	0.4093
167	1.1	73.5	46	0.3893
168	1.2	73.6	46	0.3966
169	0.8	73.6	46	0.3772
170	0.9	73.5	45	0.384
171	1.2	73.6	46	0.3965
172	0.9	73.6	45	0.434
173	0.7	73.6	45	0.4181
174	0.8	73.6	45	0.4172
175	0.4	73.6	45	0.3808
176	1.2	73.5	45	0.4605
177	1.2	73.5	45	0.4522
178	0.7	73.6	45	0.3965
179	0.6	73.6	45	0.3923
180	0.5	73.6	45	0.3746
181	0.5	73.6	45	0.3803
182	0.8	73.6	45	0.4052
183	1.1	73.7	45	0.4307
184	0.5	73.6	45	0.3793
185	1.3	73.7	45	0.4431

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	14	
"Start Time "	08:58:43	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	246	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	5.69521	
"Max MASS @ "	1	
"Avg MASS "	0.777295	
"Max Diam "	0.56873	
"Max Diam @ "	153	
"Avg Diam "	0.38442	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
186	1.1	73.7	45	0.4301
187	0.8	73.7	45	0.4083
188	1.1	73.7	45	0.424
189	0.6	73.8	45	0.3813
190	1.2	73.8	45	0.4284
191	1.3	73.8	45	0.441
192	0.7	73.9	44	0.3845
193	1	73.9	45	0.3841
194	0.6	74	44	0.3684
195	0.8	74	44	0.3756
196	1.1	74	44	0.391
197	0.2	74.1	44	0.3487
198	0.9	74.2	44	0.3789
199	0.5	74.2	44	0.363
200	0.9	74.2	44	0.3832
201	0.2	74.3	44	0.3468
202	0.4	74.3	44	0.3546
203	0.2	74.3	44	0.3483
204	0.3	74.3	44	0.3505
205	0.2	74.3	44	0.3461
206	1.1	74.4	44	0.3803
207	0.5	74.4	44	0.3579
208	1.1	74.4	44	0.3618
209	0.2	74.4	44	0.3397
210	1.1	74.4	44	0.3543
211	0.5	74.4	44	0.3441
212	0.7	74.4	44	0.348
213	0.9	74.4	44	0.351
214	0.9	74.4	44	0.3503
215	1	74.4	44	0.3521
216	0.3	74.4	44	0.3417
217	0.8	74.5	44	0.3491
218	0.2	74.4	44	0.3403
219	0.7	74.4	44	0.3481
220	0.4	74.4	44	0.3429
221	0.4	74.5	44	0.3428
222	0.4	74.5	44	0.3428

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	14	
"Start Time "	08:58:43	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	246	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	5.69521	
"Max MASS @ "	1	
"Avg MASS "	0.777295	
"Max Diam "	0.56873	
"Max Diam @ "	153	
"Avg Diam "	0.38442	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
223	0.5	74.5	44	0.3443
224	0.5	74.5	44	0.3443
225	0.4	74.5	44	0.3429
226	1.2	74.5	44	0.3562
227	0.7	74.5	44	0.3476
228	0.5	74.5	44	0.345
229	0.5	74.5	44	0.3449
230	0.5	74.5	44	0.3448
231	0.3	74.5	44	0.3422
232	0.3	74.5	44	0.3427
233	0.6	74.5	44	0.3466
234	0.8	74.5	43	0.3486
235	0.7	74.5	43	0.3482
236	1	74.5	43	0.3522
237	0.4	74.5	44	0.3432
238	0.3	74.5	44	0.3414
239	0.2	74.5	44	0.3404
240	1	74.5	44	0.3519
241	1.3	74.6	44	0.3574
242	0.9	74.6	44	0.3512
243	0.8	74.6	44	0.3495
244	0.8	74.6	44	0.3495
245	1	74.6	44	0.3518
246	1	74.7	44	0.3523

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	15	
"Start Time "	13:08:08	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	22	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	2.910412	
"Max MASS @ "	2	
"Avg MASS "	1.06856	
"Max Diam "	0.785204	
"Max Diam @ "	9	
"Avg Diam "	0.423105	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	1000	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	1.1	74.9	44	0.3299
2	2.9	75	44	0.3543
3	0.5	75.1	44	0.3463
4	1.1	75.2	44	0.3569
5	1	75.2	44	0.3568
6	1.5	75.3	44	0.3806
7	0.7	75.4	44	0.3706
8	1.4	75.6	45	0.4015
9	1.9	75.7	44	0.7852
10	0.2	75.8	44	0.3581
11	1.1	76	44	0.4939
12	1	76.1	44	0.4594
13	0.5	76.2	44	0.3907
14	0.7	76.4	44	0.4168
15	0.5	76.5	44	0.3987
16	0.3	76.6	44	0.3701
17	0.9	76.8	44	0.4483
18	1.8	76.9	44	0.5746
19	1.1	77	44	0.4946
20	1.2	77.2	44	0.4162
21	1.4	77.3	43	0.4249
22	0.7	77.4	43	0.3799

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	16	
"Start Time "	14:06:42	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	96	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	8.992282	
"Max MASS @ "	1	
"Avg MASS "	2.580475	
"Max Diam "	0.663058	
"Max Diam @ "	52	
"Avg Diam "	0.475602	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	9	80.6	43	0.6177
2	2.9	80.6	42	0.4949
3	2.3	80.6	42	0.4333
4	2.8	80.6	42	0.4435
5	2.1	80.6	42	0.4098
6	2.9	80.7	42	0.4349
7	2.1	80.7	42	0.4042
8	3.1	80.7	41	0.445
9	2.9	80.7	41	0.4371
10	2.8	80.8	41	0.493
11	2.1	80.8	41	0.4524
12	2.5	80.8	41	0.4462
13	2.7	80.8	41	0.4727
14	2.8	80.8	42	0.4797
15	3.4	80.9	42	0.5585
16	3.4	80.8	42	0.5271
17	2.6	80.9	41	0.4773
18	2.5	80.9	41	0.4274
19	1.9	80.9	41	0.411
20	2	81	41	0.4412
21	3	81	41	0.4969
22	2	81	41	0.4089
23	3	81	41	0.4442
24	2.9	81	41	0.462
25	2.7	81	41	0.4503
26	2.1	81	41	0.4244
27	1.7	81.1	41	0.4053
28	2.8	81.1	41	0.4532
29	2.9	81.1	41	0.4688
30	2.6	81.1	41	0.4694
31	3	81.1	41	0.5188
32	2.9	81.1	41	0.4532
33	3.2	81.1	41	0.5813
34	3.3	81.1	40	0.5921
35	3.2	81.1	40	0.5641
36	2.5	81.2	40	0.5176
37	2.9	81.2	40	0.5413

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	16	
"Start Time "	14:06:42	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	96	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	8.992282	
"Max MASS @ "	1	
"Avg MASS "	2.580475	
"Max Diam "	0.663058	
"Max Diam @ "	52	
"Avg Diam "	0.475602	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	2.4	81.2	40	0.4549
39	2.1	81.2	40	0.4429
40	2.8	81.2	40	0.502
41	4	81.2	40	0.6064
42	2.3	81.2	40	0.4844
43	2.8	81.2	40	0.474
44	2.1	81.3	40	0.4243
45	3	81.3	40	0.4779
46	2.7	81.3	40	0.4756
47	3	81.3	40	0.4935
48	2.2	81.3	40	0.4028
49	2.3	81.3	40	0.4031
50	2.8	81.4	40	0.4211
51	2.8	81.4	40	0.4613
52	4	81.4	40	0.6631
53	3.2	81.4	40	0.5149
54	3.6	81.4	40	0.5745
55	2.7	81.4	40	0.4587
56	2.4	81.4	40	0.4329
57	2.7	81.5	40	0.5019
58	2.3	81.5	39	0.4685
59	2.2	81.5	39	0.4793
60	2.2	81.5	39	0.4673
61	2.3	81.5	39	0.4663
62	1.9	81.6	39	0.4465
63	2.2	81.6	39	0.4555
64	3.1	81.6	39	0.5358
65	1.9	81.6	39	0.4344
66	1.8	81.6	39	0.4322
67	1.6	81.7	39	0.4228
68	2.2	81.7	39	0.4668
69	3.1	81.7	39	0.5801
70	2.7	81.7	39	0.5565
71	1.9	81.7	39	0.4939
72	2.5	81.8	39	0.5255
73	2.6	81.8	39	0.4727
74	2.7	81.8	39	0.4569

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	16	
"Start Time "	14:06:42	
"Start Date "	13-Jun-2016	
"Log Period "	00:01:00	
"Number "	96	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	8.992282	
"Max MASS @ "	1	
"Avg MASS "	2.580475	
"Max Diam "	0.663058	
"Max Diam @ "	52	
"Avg Diam "	0.475602	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	0	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	2.1	81.8	39	0.4436
76	2.3	81.8	39	0.4515
77	2.3	81.8	39	0.4786
78	2.4	81.8	39	0.5014
79	3.1	81.8	39	0.5693
80	2.6	81.8	38	0.4894
81	2.9	81.9	39	0.5074
82	2.7	81.9	39	0.5311
83	2.8	81.9	39	0.5347
84	1.9	81.9	39	0.4665
85	1.9	81.9	39	0.4802
86	2	81.9	39	0.4779
87	2.3	81.9	38	0.499
88	2.1	81.9	38	0.464
89	1.4	81.9	38	0.4254
90	1.5	81.9	38	0.4282
91	2.4	81.9	38	0.4618
92	2	81.9	38	0.4245
93	1.4	81.9	38	0.393
94	1.9	81.9	38	0.4151
95	1.3	81.9	38	0.3945
96	2.1	81.9	38	0.4307

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	17	
"Start Time "	08:10:06	
"Start Date "	14-Jun-2016	
"Log Period "	00:01:00	
"Number "	67	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	13.97223	
"Max MASS @ "	7	
"Avg MASS "	1.560567	
"Max Diam "	2.786237	
"Max Diam @ "	7	
"Avg Diam "	0.49212	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	7.4	67.2	42	0.5976
2	0.3	67.2	44	0.3528
3	4.6	67.2	45	0.4442
4	0.7	67.2	45	0.3499
5	0.4	67.2	46	0.3448
6	0.3	67.2	46	0.3434
7	14	67.3	47	2.7862
8	2.2	67.3	47	0.8046
9	0.5	67.3	47	0.3881
10	0.1	67.3	47	0.3462
11	0.1	67.3	48	0.3448
12	0.4	67.3	48	0.3792
13	0.3	67.3	48	0.3626
14	0.2	67.3	48	0.3603
15	0.2	67.3	48	0.3655
16	0.6	67.3	48	0.3956
17	0.3	67.3	48	0.3645
18	1.1	67.3	48	0.461
19	0.5	67.3	48	0.3886
20	0.7	67.3	48	0.4101
21	1.6	67.3	48	0.4611
22	13.2	67.3	49	2.0975
23	3.5	67.3	49	0.8301
24	1.5	67.4	49	0.4284
25	0.2	67.3	49	0.3544
26	0	67.3	49	0.3375
27	0	67.3	49	0.3375
28	0.2	67.3	49	0.3495
29	0	67.3	49	0.3387
30	0	67.3	49	0.3375
31	0.6	67.3	49	0.3716
32	0.3	67.3	49	0.3517
33	0	67.3	49	0.3399
34	0.1	67.3	49	0.3427
35	0	67.3	49	0.3375
36	0	67.3	49	0.3378
37	0	67.3	49	0.3377

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	17	
"Start Time "	08:10:06	
"Start Date "	14-Jun-2016	
"Log Period "	00:01:00	
"Number "	67	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	13.97223	
"Max MASS @ "	7	
"Avg MASS "	1.560567	
"Max Diam "	2.786237	
"Max Diam @ "	7	
"Avg Diam "	0.49212	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	0	67.3	49	0.3375
39	0	67.3	49	0.338
40	0	67.3	49	0.3375
41	0	67.3	49	0.3375
42	1	67.3	49	0.3851
43	1.7	67.3	49	0.4279
44	1.8	67.3	49	0.4298
45	2	67.3	49	0.4833
46	2.3	67.3	49	0.5055
47	2.6	67.3	49	0.5758
48	1.8	67.3	49	0.4652
49	2.9	67.3	49	0.526
50	1.6	67.3	49	0.4463
51	2.1	67.3	49	0.4524
52	1.4	67.3	49	0.4014
53	1.5	67.2	49	0.4028
54	0.9	67.3	49	0.3735
55	0	67.3	49	0.3375
56	0.6	67.3	50	0.3632
57	1.2	67.3	50	0.3786
58	2.2	67.3	50	0.4255
59	1.3	67.3	50	0.3944
60	2.3	67.3	49	0.4497
61	3.7	67.3	50	1.2022
62	3.3	67.3	50	0.9111
63	1.9	67.3	50	0.5256
64	2.1	67.3	50	0.5188
65	2	67.3	50	0.448
66	2.3	67.4	50	0.473
67	2.2	67.3	50	0.438

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	18	
"Start Time "	09:18:09	
"Start Date "	14-Jun-2016	
"Log Period "	00:01:00	
"Number "	42	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	4.941314	
"Max MASS @ "	13	
"Avg MASS "	2.321082	
"Max Diam "	1.133933	
"Max Diam @ "	13	
"Avg Diam "	0.55317	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	3.7	67.3	50	0.6102
2	3.1	67.4	50	0.776
3	1	67.4	50	0.5208
4	0	67.4	50	0.3375
5	0.1	67.4	50	0.3435
6	0.4	67.4	50	0.4015
7	0.8	67.4	50	0.4635
8	0	67.4	50	0.3375
9	0	67.4	50	0.3375
10	0.8	67.4	50	0.4388
11	2.2	67.4	50	0.7732
12	2.3	67.5	50	0.6112
13	4.9	67.5	50	1.1339
14	2.8	67.5	50	0.6022
15	3	67.5	50	0.5751
16	3.9	67.5	50	0.798
17	4.1	67.5	50	1.0564
18	3.6	67.5	50	0.7101
19	3.6	67.5	50	0.6624
20	4	67.6	50	0.8098
21	4	67.6	50	1.0592
22	3.3	67.6	50	0.8129
23	2.6	67.6	50	0.5965
24	2.4	67.6	50	0.4875
25	3.2	67.6	50	0.5686
26	3.4	67.6	50	0.6214
27	3.6	67.6	50	0.71
28	2.7	67.6	50	0.4818
29	1.8	67.7	50	0.4122
30	2	67.7	50	0.3664
31	1.3	67.7	50	0.3457
32	2.8	67.8	50	0.4078
33	1.4	67.8	50	0.3733
34	0.9	67.8	50	0.3386
35	0.4	67.9	50	0.3376
36	2.6	67.9	50	0.3721
37	2.2	67.9	50	0.3836

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	18	
"Start Time "	09:18:09	
"Start Date "	14-Jun-2016	
"Log Period "	00:01:00	
"Number "	42	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	4.941314	
"Max MASS @ "	13	
"Avg MASS "	2.321082	
"Max Diam "	1.133933	
"Max Diam @ "	13	
"Avg Diam "	0.55317	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	1.4	67.9	50	0.3671
39	1.3	67.9	50	0.379
40	3.2	68	50	0.462
41	3	68	50	0.4828
42	3.7	68	50	0.5677

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	19	
"Start Time "	10:18:37	
"Start Date "	14-Jun-2016	
"Log Period "	00:01:00	
"Number "	21	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	22.21266	
"Max MASS @ "	1	
"Avg MASS "	4.992792	
"Max Diam "	3.347419	
"Max Diam @ "	2	
"Avg Diam "	1.187507	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	22.2	68.7	50	0.8546
2	6.6	68.7	50	3.3474
3	4.4	68.8	50	1.5486
4	4.1	68.9	50	1.1829
5	3.5	68.9	49	0.8072
6	3.3	69	49	0.6416
7	5.3	69.1	49	1.2219
8	2.9	69.2	49	0.762
9	5.7	69.4	49	1.9064
10	3.1	69.6	49	0.819
11	6.1	69.7	49	2.2355
12	6.2	69.9	49	2.0266
13	2.9	70.1	49	1.1363
14	3.3	70.2	48	0.6453
15	3.6	70.4	48	0.6883
16	5.9	70.7	48	1.8719
17	3.7	70.9	48	0.8765
18	2.9	71.1	48	0.5655
19	3.6	71.3	48	0.7146
20	3	71.6	48	0.5774
21	2.7	71.8	48	0.5081

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	20	
"Start Time "	11:29:26	
"Start Date "	14-Jun-2016	
"Log Period "	00:01:00	
"Number "	126	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	33.02623	
"Max MASS @ "	1	
"Avg MASS "	1.935406	
"Max Diam "	2.839145	
"Max Diam @ "	1	
"Avg Diam "	0.766286	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	33	76.2	46	2.8391
2	4.3	76.2	45	2.2714
3	4.7	76.2	44	2.2581
4	5.2	76.2	44	2.3467
5	5.3	76.2	44	2.7557
6	3.7	76.2	43	1.0258
7	5.1	76.2	43	2.2336
8	3.7	76.2	43	1.8625
9	4.1	76.1	43	1.8938
10	3.7	76.1	43	1.7649
11	4.4	76.1	43	2.2003
12	4.2	76.1	43	1.8616
13	4.8	76.2	43	1.4692
14	4.1	76.2	43	1.6872
15	4.5	76.2	43	1.8135
16	3.2	76.2	43	1.05
17	3.9	76.3	43	1.5636
18	4.3	76.3	43	2.1293
19	5.2	76.4	42	2.4647
20	4	76.5	43	1.4286
21	3.7	76.5	43	1.402
22	2.9	76.6	42	0.6741
23	3.5	76.8	43	1.2329
24	3.6	76.9	43	1.0673
25	3.3	77	43	1.495
26	2.4	77.2	43	0.6891
27	3.8	77.3	42	1.1287
28	2.4	77.5	42	0.7913
29	3.2	77.6	43	0.8834
30	2.3	77.9	42	0.4708
31	2.2	78.1	42	0.4131
32	2.1	78.2	41	0.424
33	3	78.3	41	0.6081
34	4.3	78.6	41	2.0266
35	3.1	78.8	41	0.8965
36	4.3	78.9	41	1.3898
37	2.6	79.1	40	1.31

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	20	
"Start Time "	11:29:26	
"Start Date "	14-Jun-2016	
"Log Period "	00:01:00	
"Number "	126	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	33.02623	
"Max MASS @ "	1	
"Avg MASS "	1.935406	
"Max Diam "	2.839145	
"Max Diam @ "	1	
"Avg Diam "	0.766286	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	3.5	79.3	40	1.5987
39	3.2	79.6	40	1.086
40	1.4	79.7	40	0.4741
41	2.1	80	40	0.4694
42	1.7	80.2	40	0.4136
43	2.4	80.4	40	0.5689
44	2.5	80.7	40	0.6843
45	1.8	80.8	39	0.6604
46	1.5	81.1	39	0.5285
47	2.3	81.4	39	0.8687
48	1.7	81.6	39	0.7012
49	4.7	81.8	39	0.8819
50	2.4	82	39	1.0244
51	2.7	82.3	38	1.3277
52	2	82.5	38	0.6156
53	1.7	82.7	38	0.5715
54	2	82.9	38	0.5371
55	1.2	83.2	38	0.4672
56	1.2	83.4	37	0.4505
57	1.5	83.6	37	0.6379
58	1.4	83.8	37	0.4755
59	1.4	84	37	0.4554
60	1.8	84.2	37	0.5718
61	0.8	84.4	37	0.4353
62	1.7	84.6	36	0.5822
63	0.7	84.9	36	0.3892
64	1	85.1	36	0.4366
65	0.7	85.2	36	0.3994
66	0.1	85.4	35	0.3465
67	0.7	85.6	35	0.3998
68	0.7	85.9	35	0.4014
69	0.5	86.1	35	0.391
70	0.8	86.2	35	0.5183
71	1.3	86.4	35	0.6768
72	0.4	86.6	35	0.4012
73	0.5	86.8	34	0.4071
74	0.8	87	34	0.5592

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	20	
"Start Time "	11:29:26	
"Start Date "	14-Jun-2016	
"Log Period "	00:01:00	
"Number "	126	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	33.02623	
"Max MASS @ "	1	
"Avg MASS "	1.935406	
"Max Diam "	2.839145	
"Max Diam @ "	1	
"Avg Diam "	0.766286	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	0.3	87.1	33	0.3863
76	0.4	87.3	33	0.4194
77	1.3	87.5	33	0.5843
78	0.4	87.7	33	0.3451
79	0	87.9	33	0.3378
80	0.8	88	33	0.3532
81	0.2	88.2	33	0.3408
82	0.1	88.3	33	0.3398
83	0	88.5	32	0.3379
84	0.3	88.7	32	0.3435
85	0.1	88.8	32	0.3389
86	0	89	31	0.338
87	0.4	89.1	31	0.3447
88	0	89.2	31	0.338
89	0	89.4	31	0.3375
90	0.2	89.6	31	0.3408
91	0.1	89.7	31	0.3401
92	0	89.8	31	0.3376
93	0.4	90	31	0.3342
94	0	90.1	31	0.3373
95	0.1	90.3	31	0.3371
96	0.8	90.5	31	0.3361
97	0.2	90.7	30	0.338
98	0	90.8	30	0.3376
99	0	91	30	0.3376
100	0.9	91.1	30	0.3549
101	1	91.3	29	0.3692
102	4.7	91.5	29	0.4396
103	0.2	91.6	29	0.3502
104	0.3	91.7	29	0.3529
105	0	91.8	29	0.3377
106	0	92	29	0.3386
107	0.1	92.2	29	0.3413
108	0	92.3	28	0.3385
109	0	92.4	28	0.3384
110	0.1	92.6	28	0.3415
111	0.5	92.6	28	0.3621

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	20	
"Start Time "	11:29:26	
"Start Date "	14-Jun-2016	
"Log Period "	00:01:00	
"Number "	126	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	33.02623	
"Max MASS @ "	1	
"Avg MASS "	1.935406	
"Max Diam "	2.839145	
"Max Diam @ "	1	
"Avg Diam "	0.766286	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
112	0.5	92.7	28	0.3606
113	0.1	92.9	28	0.3423
114	0.1	93	28	0.3416
115	0.2	93.2	28	0.3448
116	0	93.3	28	0.3385
117	0.1	93.4	28	0.3408
118	0.1	93.6	28	0.3421
119	0.1	93.7	27	0.3396
120	0.5	93.9	27	0.365
121	0	94	27	0.338
122	0	94.1	27	0.3382
123	0	94.2	27	0.338
124	0	94.4	27	0.3385
125	0.8	94.5	27	0.3824
126	0	94.7	27	0.3388

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	21	
"Start Time "	14:11:03	
"Start Date "	14-Jun-2016	
"Log Period "	00:01:00	
"Number "	33	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337468	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	110	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0	97	26	0.3368
2	0	96.9	26	0.3375
3	0	96.9	26	0.3375
4	0	96.8	25	0.3375
5	0	96.6	25	0.3375
6	0	96.5	25	0.3375
7	0	96.4	25	0.3375
8	0	96.3	25	0.3375
9	0	96.3	25	0.3375
10	0	96.1	25	0.3375
11	0	96.1	25	0.3375
12	0	96	25	0.3375
13	0	96	25	0.3375
14	0	96	25	0.3375
15	0	95.9	25	0.3375
16	0	95.9	25	0.3375
17	0	95.9	25	0.3375
18	0	95.9	25	0.3375
19	0	95.9	25	0.3375
20	0	95.8	25	0.3375
21	0	95.8	25	0.3375
22	0	95.8	25	0.3375
23	0	95.8	25	0.3375
24	0	95.8	25	0.3375
25	0	95.8	25	0.3375
26	0	95.8	25	0.3375
27	0	95.8	25	0.3375
28	0	95.9	25	0.3375
29	0	95.9	25	0.3375
30	0	95.8	25	0.3375
31	0	95.9	25	0.3375
32	0	95.8	24	0.3375
33	0	95.8	25	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	22	
"Start Time "	08:36:04	
"Start Date "	15-Jun-2016	
"Log Period "	00:01:00	
"Number "	18	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	2.437224	
"Max MASS @ "	1	
"Avg MASS "	0.135401	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337234	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	2.4	70.3	33	0.3329
2	0	70.4	36	0.3375
3	0	70.5	38	0.3375
4	0	70.6	40	0.3375
5	0	70.7	41	0.3375
6	0	70.8	42	0.3375
7	0	70.8	43	0.3375
8	0	70.9	44	0.3375
9	0	71	45	0.3375
10	0	71	45	0.3375
11	0	71.1	45	0.3375
12	0	71.2	46	0.3375
13	0	71.3	46	0.3375
14	0	71.4	46	0.3375
15	0	71.5	47	0.3375
16	0	71.6	47	0.3375
17	0	71.6	47	0.3375
18	0	71.7	47	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	23	
"Start Time "	09:07:31	
"Start Date "	15-Jun-2016	
"Log Period "	00:01:00	
"Number "	6	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337428	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0	72.6	47	0.3371
2	0	72.6	47	0.3375
3	0	72.8	48	0.3375
4	0	72.8	48	0.3375
5	0	72.9	48	0.3375
6	0	73	49	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	24	
"Start Time "	09:23:51	
"Start Date "	15-Jun-2016	
"Log Period "	00:01:00	
"Number "	64	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337479	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0	74.5	49	0.3368
2	0	74.6	48	0.3375
3	0	74.8	48	0.3375
4	0	74.9	48	0.3375
5	0	75.2	48	0.3375
6	0	75.3	48	0.3375
7	0	75.4	48	0.3375
8	0	75.5	48	0.3375
9	0	75.7	48	0.3375
10	0	75.8	47	0.3375
11	0	75.9	47	0.3375
12	0	76	47	0.3375
13	0	76.1	47	0.3375
14	0	76.2	47	0.3375
15	0	76.3	47	0.3375
16	0	76.3	47	0.3375
17	0	76.4	47	0.3375
18	0	76.4	46	0.3375
19	0	76.5	46	0.3375
20	0	76.5	46	0.3375
21	0	76.6	46	0.3375
22	0	76.6	46	0.3375
23	0	76.7	46	0.3375
24	0	76.7	45	0.3375
25	0	76.8	45	0.3375
26	0	76.9	45	0.3375
27	0	76.9	46	0.3375
28	0	76.9	46	0.3375
29	0	77	45	0.3375
30	0	77	45	0.3375
31	0	77	45	0.3375
32	0	77	45	0.3375
33	0	77.1	45	0.3375
34	0	77.1	45	0.3375
35	0	77.1	45	0.3375
36	0	77.1	45	0.3375
37	0	77.2	45	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	24	
"Start Time "	09:23:51	
"Start Date "	15-Jun-2016	
"Log Period "	00:01:00	
"Number "	64	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337479	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	0	77.2	45	0.3375
39	0	77.2	45	0.3375
40	0	77.2	45	0.3375
41	0	77.2	45	0.3375
42	0	77.2	45	0.3375
43	0	77.3	45	0.3375
44	0	77.3	45	0.3375
45	0	77.3	45	0.3375
46	0	77.3	45	0.3375
47	0	77.3	45	0.3375
48	0	77.4	45	0.3375
49	0	77.4	45	0.3375
50	0	77.4	45	0.3375
51	0	77.4	45	0.3375
52	0	77.4	45	0.3375
53	0	77.5	45	0.3375
54	0	77.5	45	0.3375
55	0	77.5	45	0.3375
56	0	77.6	45	0.3375
57	0	77.6	45	0.3375
58	0	77.7	45	0.3375
59	0	77.7	45	0.3375
60	0	77.7	45	0.3375
61	0	77.7	45	0.3375
62	0	77.7	45	0.3375
63	0	77.8	45	0.3375
64	0	77.8	45	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	25	
"Start Time "	11:00:02	
"Start Date "	15-Jun-2016	
"Log Period "	00:01:00	
"Number "	91	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0.184447	
"Max MASS @ "	64	
"Avg MASS "	0.002027	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337475	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0	79.1	44	0.3368
2	0	79.2	44	0.3375
3	0	79.2	44	0.3375
4	0	79.3	44	0.3375
5	0	79.4	44	0.3375
6	0	79.5	44	0.3375
7	0	79.5	44	0.3375
8	0	79.6	44	0.3375
9	0	79.7	44	0.3375
10	0	79.8	44	0.3375
11	0	79.8	43	0.3375
12	0	79.9	43	0.3375
13	0	80	43	0.3375
14	0	80	43	0.3375
15	0	80.1	43	0.3375
16	0	80.2	43	0.3375
17	0	80.2	43	0.3375
18	0	80.4	43	0.3375
19	0	80.5	43	0.3375
20	0	80.6	43	0.3375
21	0	80.7	43	0.3375
22	0	80.8	43	0.3375
23	0	80.9	42	0.3375
24	0	80.9	42	0.3375
25	0	81.1	42	0.3375
26	0	81.1	42	0.3375
27	0	81.3	42	0.3375
28	0	81.4	42	0.3375
29	0	81.5	42	0.3375
30	0	81.6	42	0.3375
31	0	81.7	42	0.3375
32	0	81.8	42	0.3375
33	0	82	42	0.3375
34	0	82.1	42	0.3375
35	0	82.2	42	0.3375
36	0	82.4	42	0.3375
37	0	82.5	42	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	25	
"Start Time "	11:00:02	
"Start Date "	15-Jun-2016	
"Log Period "	00:01:00	
"Number "	91	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0.184447	
"Max MASS @ "	64	
"Avg MASS "	0.002027	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337475	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	0	82.6	42	0.3375
39	0	82.7	42	0.3375
40	0	82.8	41	0.3375
41	0	82.9	41	0.3375
42	0	83	42	0.3375
43	0	83.3	41	0.3375
44	0	83.3	41	0.3375
45	0	83.5	41	0.3375
46	0	83.6	41	0.3375
47	0	83.6	41	0.3375
48	0	83.7	41	0.3375
49	0	83.9	41	0.3375
50	0	84	41	0.3375
51	0	84.2	41	0.3375
52	0	84.3	41	0.3375
53	0	84.4	41	0.3375
54	0	84.5	40	0.3375
55	0	84.6	40	0.3375
56	0	84.8	40	0.3375
57	0	84.9	40	0.3375
58	0	85.1	40	0.3375
59	0	85.2	39	0.3375
60	0	85.4	39	0.3375
61	0	85.5	39	0.3375
62	0	85.6	39	0.3375
63	0	85.8	39	0.3375
64	0.2	86	38	0.3369
65	0	86.1	38	0.3375
66	0	86.2	38	0.3375
67	0	86.3	38	0.3375
68	0	86.5	38	0.3375
69	0	86.7	38	0.3375
70	0	86.9	38	0.3375
71	0	87	38	0.3375
72	0	87.2	37	0.3375
73	0	87.3	38	0.3375
74	0	87.5	37	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	25	
"Start Time "	11:00:02	
"Start Date "	15-Jun-2016	
"Log Period "	00:01:00	
"Number "	91	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0.184447	
"Max MASS @ "	64	
"Avg MASS "	0.002027	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337475	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	0	87.8	37	0.3375
76	0	87.9	37	0.3375
77	0	88.1	37	0.3375
78	0	88.2	37	0.3375
79	0	88.4	36	0.3375
80	0	88.7	36	0.3375
81	0	88.9	36	0.3375
82	0	89	36	0.3375
83	0	89.2	36	0.3375
84	0	89.4	36	0.3375
85	0	89.7	36	0.3375
86	0	89.8	36	0.3375
87	0	90	36	0.3375
88	0	90.2	35	0.3375
89	0	90.4	35	0.3375
90	0	90.6	35	0.3375
91	0	90.9	35	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	26	
"Start Time "	08:15:33	
"Start Date "	16-Jun-2016	
"Log Period "	00:01:00	
"Number "	41	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	4.699668	
"Max MASS @ "	4	
"Avg MASS "	0.125714	
"Max Diam "	0.338398	
"Max Diam @ "	2	
"Avg Diam "	0.337378	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0	68.9	38	0.3368
2	0.5	69	42	0.3384
3	0	69	45	0.3375
4	4.7	69.1	47	0.3327
5	0	69.2	49	0.3375
6	0	69.2	50	0.3375
7	0	69.3	51	0.3375
8	0	69.3	51	0.3375
9	0	69.4	52	0.3375
10	0	69.4	53	0.3375
11	0	69.5	53	0.3375
12	0	69.5	54	0.3375
13	0	69.6	54	0.3375
14	0	69.7	54	0.3375
15	0	69.7	55	0.3375
16	0	69.8	55	0.3375
17	0	69.8	55	0.3375
18	0	69.8	55	0.3375
19	0	69.9	55	0.3375
20	0	69.9	56	0.3375
21	0	69.9	56	0.3375
22	0	70	56	0.3375
23	0	70.1	56	0.3375
24	0	70.1	57	0.3375
25	0	70.1	57	0.3375
26	0	70.1	57	0.3375
27	0	70.1	57	0.3375
28	0	70.2	57	0.3375
29	0	70.2	57	0.3375
30	0	70.2	57	0.3375
31	0	70.2	57	0.3375
32	0	70.3	58	0.3375
33	0	70.3	58	0.3375
34	0	70.3	58	0.3375
35	0	70.4	58	0.3375
36	0	70.4	58	0.3375
37	0	70.4	58	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	26	
"Start Time "	08:15:33	
"Start Date "	16-Jun-2016	
"Log Period "	00:01:00	
"Number "	41	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	4.699668	
"Max MASS @ "	4	
"Avg MASS "	0.125714	
"Max Diam "	0.338398	
"Max Diam @ "	2	
"Avg Diam "	0.337378	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	10	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	0	70.5	58	0.3375
39	0	70.6	58	0.3375
40	0	70.6	58	0.3375
41	0	70.6	59	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	27	
"Start Time "	10:04:33	
"Start Date "	16-Jun-2016	
"Log Period "	00:01:00	
"Number "	158	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337486	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	110	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
1	0	72.5	58	0.3368
2	0	72.6	58	0.3375
3	0	72.5	58	0.3375
4	0	72.6	58	0.3375
5	0	72.6	59	0.3375
6	0	72.7	59	0.3375
7	0	72.7	59	0.3375
8	0	72.7	59	0.3375
9	0	72.8	59	0.3375
10	0	72.8	59	0.3375
11	0	72.9	59	0.3375
12	0	72.9	60	0.3375
13	0	73	60	0.3375
14	0	73.1	60	0.3375
15	0	73.1	60	0.3375
16	0	73.2	60	0.3375
17	0	73.3	60	0.3375
18	0	73.4	60	0.3375
19	0	73.4	59	0.3375
20	0	73.5	59	0.3375
21	0	73.6	60	0.3375
22	0	73.6	59	0.3375
23	0	73.7	59	0.3375
24	0	73.7	59	0.3375
25	0	73.7	59	0.3375
26	0	73.9	59	0.3375
27	0	73.8	59	0.3375
28	0	73.9	59	0.3375
29	0	74	59	0.3375
30	0	74.1	58	0.3375
31	0	74.2	59	0.3375
32	0	74.3	58	0.3375
33	0	74.3	58	0.3375
34	0	74.4	58	0.3375
35	0	74.4	58	0.3375
36	0	74.5	58	0.3375
37	0	74.6	58	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	27	
"Start Time "	10:04:33	
"Start Date "	16-Jun-2016	
"Log Period "	00:01:00	
"Number "	158	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337486	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	110	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
38	0	74.7	58	0.3375
39	0	74.8	58	0.3375
40	0	74.8	58	0.3375
41	0	74.9	58	0.3375
42	0	75.1	58	0.3375
43	0	75.2	58	0.3375
44	0	75.2	58	0.3375
45	0	75.3	57	0.3375
46	0	75.4	57	0.3375
47	0	75.5	57	0.3375
48	0	75.6	57	0.3375
49	0	75.7	57	0.3375
50	0	75.9	57	0.3375
51	0	76	57	0.3375
52	0	76.1	58	0.3375
53	0	76.2	57	0.3375
54	0	76.4	57	0.3375
55	0	76.5	57	0.3375
56	0	76.6	57	0.3375
57	0	76.8	57	0.3375
58	0	77	56	0.3375
59	0	77.2	56	0.3375
60	0	77.3	56	0.3375
61	0	77.5	56	0.3375
62	0	77.7	56	0.3375
63	0	77.9	55	0.3375
64	0	78.1	55	0.3375
65	0	78.2	55	0.3375
66	0	78.4	55	0.3375
67	0	78.6	54	0.3375
68	0	78.8	54	0.3375
69	0	78.9	54	0.3375
70	0	79	54	0.3375
71	0	79.1	54	0.3375
72	0	79.2	53	0.3375
73	0	79.4	53	0.3375
74	0	79.5	52	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	27	
"Start Time "	10:04:33	
"Start Date "	16-Jun-2016	
"Log Period "	00:01:00	
"Number "	158	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337486	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	110	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
75	0	79.6	52	0.3375
76	0	79.7	52	0.3375
77	0	79.9	52	0.3375
78	0	79.9	52	0.3375
79	0	80	52	0.3375
80	0	80.1	52	0.3375
81	0	80.2	52	0.3375
82	0	80.2	52	0.3375
83	0	80.4	51	0.3375
84	0	80.5	51	0.3375
85	0	80.6	51	0.3375
86	0	80.7	51	0.3375
87	0	80.8	51	0.3375
88	0	80.9	51	0.3375
89	0	81	51	0.3375
90	0	81.1	50	0.3375
91	0	81.2	50	0.3375
92	0	81.4	50	0.3375
93	0	81.5	50	0.3375
94	0	81.7	50	0.3375
95	0	81.7	50	0.3375
96	0	81.8	50	0.3375
97	0	82	49	0.3375
98	0	82.1	49	0.3375
99	0	82.2	49	0.3375
100	0	82.4	49	0.3375
101	0	82.5	49	0.3375
102	0	82.6	49	0.3375
103	0	82.8	49	0.3375
104	0	82.8	49	0.3375
105	0	82.9	49	0.3375
106	0	83.1	48	0.3375
107	0	83.2	48	0.3375
108	0	83.3	48	0.3375
109	0	83.4	48	0.3375
110	0	83.5	48	0.3375
111	0	83.6	48	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	27	
"Start Time "	10:04:33	
"Start Date "	16-Jun-2016	
"Log Period "	00:01:00	
"Number "	158	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337486	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	110	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
112	0	83.6	47	0.3375
113	0	83.8	47	0.3375
114	0	83.8	47	0.3375
115	0	83.9	47	0.3375
116	0	84	47	0.3375
117	0	84.1	47	0.3375
118	0	84.2	46	0.3375
119	0	84.3	46	0.3375
120	0	84.4	46	0.3375
121	0	84.5	46	0.3375
122	0	84.6	46	0.3375
123	0	84.7	46	0.3375
124	0	84.7	46	0.3375
125	0	84.8	46	0.3375
126	0	85	45	0.3375
127	0	85.1	45	0.3375
128	0	85.2	45	0.3375
129	0	85.3	45	0.3375
130	0	85.3	45	0.3375
131	0	85.4	45	0.3375
132	0	85.5	45	0.3375
133	0	85.6	46	0.3375
134	0	85.7	45	0.3375
135	0	85.9	45	0.3375
136	0	86	45	0.3375
137	0	86.1	45	0.3375
138	0	86.2	45	0.3375
139	0	86.4	44	0.3375
140	0	86.5	44	0.3375
141	0	86.7	44	0.3375
142	0	86.9	44	0.3375
143	0	87	44	0.3375
144	0	87.2	43	0.3375
145	0	87.3	43	0.3375
146	0	87.5	43	0.3375
147	0	87.7	43	0.3375
148	0	87.9	43	0.3375

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"Model Number"	"DataRAM 4 "	106
"Serial no. "	"D330 "	
"Device no. "	55	
"Tag Number "	27	
"Start Time "	10:04:33	
"Start Date "	16-Jun-2016	
"Log Period "	00:01:00	
"Number "	158	
"CalFactor "	1	
"Unit "	0	
"Unit Name "	"(MASS)ug/m3"	
"SIZE_CORRECT"	"DISABLED"	
"TEMPUNITS "	F	
"Max MASS "	0	
"Max MASS @ "	0	
"Avg MASS "	0	
"Max Diam "	0.33749	
"Max Diam @ "	2	
"Avg Diam "	0.337486	
"ALARM "	"ENABLED"	
"ALARM_LEVEL "	2500	
"AUTO_ZERO "	"DISABLED"	
"AZ INTERVAL "	1	
"Errors "	110	

record	(MASS)ug/m3	Temp	RHumidity	Diameter
149	0	88.1	43	0.3375
150	0	88.2	43	0.3375
151	0	88.3	43	0.3375
152	0	88.6	43	0.3375
153	0	88.7	42	0.3375
154	0	88.9	42	0.3375
155	0	89	42	0.3375
156	0	89.1	42	0.3375
157	0	89.3	42	0.3375
158	0	89.5	41	0.3375

==========
16/06/07 12:19
****
Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Hygiene Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	1
User ID	1

Begin	6/7/2016 12:19
End	6/7/2016 12:19
Sample Period(s)	60
Number of Records	0

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/7/2016 12:17

Datalog

0 record.

==========
16/06/07 12:38
****
Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808

Unit Firmware Ver	V1.10A

Running Mode	Hygiene Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	1
User ID	1

Begin	6/7/2016 12:38
End	6/7/2016 16:14
Sample Period(s)	60
Number of Records	215

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/7/2016 12:17
Peak	0.208
Min	0
Average	0.1

****

Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Min)	(Avg)	(Max)	(Real)
1	6/7/2016 12:39	0	0	0	0
2	6/7/2016 12:40	0	0.007	0.033	0
3	6/7/2016 12:41	0	0	0	0
4	6/7/2016 12:42	0	0	0.013	0
5	6/7/2016 12:43	0	0	0	0
6	6/7/2016 12:44	0	0.002	0.027	0
7	6/7/2016 12:45	0	0.014	0.03	0.017
8	6/7/2016 12:46	0	0.006	0.023	0.011
9	6/7/2016 12:47	0.012	0.022	0.042	0.019
10	6/7/2016 12:48	0.004	0.029	0.048	0.041
11	6/7/2016 12:49	0.008	0.027	0.042	0.036
12	6/7/2016 12:50	0	0.026	0.056	0.009

13	6/7/2016 12:51	0	0.006	0.028	0.003
14	6/7/2016 12:52	0	0	0.004	0
15	6/7/2016 12:53	0	0	0.002	0
16	6/7/2016 12:54	0	0.01	0.042	0.001
17	6/7/2016 12:55	0	0.001	0.014	0
18	6/7/2016 12:56	0	0	0.009	0
19	6/7/2016 12:57	0	0.009	0.043	0.025
20	6/7/2016 12:58	0.022	0.032	0.045	0.028
21	6/7/2016 12:59	0.025	0.042	0.075	0.029
22	6/7/2016 13:00	0.034	0.054	0.083	0.069
23	6/7/2016 13:01	0.013	0.046	0.077	0.033
24	6/7/2016 13:02	0.029	0.04	0.057	0.037
25	6/7/2016 13:03	0.007	0.028	0.05	0.026
26	6/7/2016 13:04	0.019	0.036	0.061	0.031
27	6/7/2016 13:05	0.026	0.04	0.054	0.054
28	6/7/2016 13:06	0.022	0.044	0.06	0.039
29	6/7/2016 13:07	0.012	0.026	0.044	0.023
30	6/7/2016 13:08	0.022	0.041	0.079	0.042
31	6/7/2016 13:09	0.031	0.053	0.086	0.031
32	6/7/2016 13:10	0.031	0.057	0.072	0.072
33	6/7/2016 13:11	0.042	0.058	0.08	0.07
34	6/7/2016 13:12	0.035	0.047	0.068	0.042
35	6/7/2016 13:13	0.037	0.053	0.093	0.049
36	6/7/2016 13:14	0.038	0.055	0.077	0.069
37	6/7/2016 13:15	0.022	0.039	0.065	0.035
38	6/7/2016 13:16	0.02	0.036	0.06	0.032
39	6/7/2016 13:17	0.031	0.044	0.067	0.039
40	6/7/2016 13:18	0.028	0.042	0.067	0.054
41	6/7/2016 13:19	0.035	0.051	0.069	0.048
42	6/7/2016 13:20	0.037	0.046	0.062	0.047
43	6/7/2016 13:21	0.035	0.05	0.074	0.057
44	6/7/2016 13:22	0.043	0.054	0.073	0.048
45	6/7/2016 13:23	0.038	0.047	0.063	0.044
46	6/7/2016 13:24	0.041	0.048	0.056	0.047
47	6/7/2016 13:25	0.027	0.049	0.074	0.038
48	6/7/2016 13:26	0.03	0.048	0.071	0.042
49	6/7/2016 13:27	0.037	0.05	0.062	0.059
50	6/7/2016 13:28	0.056	0.073	0.092	0.086
51	6/7/2016 13:29	0.043	0.057	0.091	0.061
52	6/7/2016 13:30	0.048	0.054	0.089	0.089
53	6/7/2016 13:31	0.047	0.072	0.099	0.047
54	6/7/2016 13:32	0.044	0.061	0.084	0.076
55	6/7/2016 13:33	0.048	0.07	0.098	0.062
56	6/7/2016 13:34	0.06	0.076	0.112	0.069
57	6/7/2016 13:35	0.047	0.063	0.074	0.063
58	6/7/2016 13:36	0.063	0.069	0.077	0.076
59	6/7/2016 13:37	0.066	0.081	0.097	0.09

60	6/7/2016 13:38	0.065	0.094	0.114	0.065
61	6/7/2016 13:39	0.064	0.088	0.111	0.086
62	6/7/2016 13:40	0.061	0.081	0.103	0.093
63	6/7/2016 13:41	0.07	0.088	0.104	0.096
64	6/7/2016 13:42	0.072	0.09	0.107	0.085
65	6/7/2016 13:43	0.071	0.083	0.106	0.075
66	6/7/2016 13:44	0.073	0.085	0.104	0.081
67	6/7/2016 13:45	0.073	0.081	0.099	0.075
68	6/7/2016 13:46	0.065	0.088	0.108	0.096
69	6/7/2016 13:47	0.073	0.088	0.102	0.073
70	6/7/2016 13:48	0.073	0.08	0.092	0.077
71	6/7/2016 13:49	0.074	0.084	0.104	0.077
72	6/7/2016 13:50	0.076	0.095	0.122	0.095
73	6/7/2016 13:51	0.079	0.097	0.124	0.101
74	6/7/2016 13:52	0.089	0.099	0.113	0.098
75	6/7/2016 13:53	0.078	0.096	0.117	0.078
76	6/7/2016 13:54	0.08	0.095	0.107	0.085
77	6/7/2016 13:55	0.078	0.09	0.109	0.082
78	6/7/2016 13:56	0.075	0.084	0.099	0.085
79	6/7/2016 13:57	0.077	0.085	0.11	0.11
80	6/7/2016 13:58	0.087	0.102	0.136	0.087
81	6/7/2016 13:59	0.079	0.09	0.11	0.11
82	6/7/2016 14:00	0.079	0.094	0.113	0.107
83	6/7/2016 14:01	0.071	0.089	0.104	0.087
84	6/7/2016 14:02	0.087	0.114	0.14	0.111
85	6/7/2016 14:03	0.091	0.113	0.144	0.101
86	6/7/2016 14:04	0.102	0.119	0.143	0.118
87	6/7/2016 14:05	0.099	0.115	0.133	0.124
88	6/7/2016 14:06	0.1	0.115	0.149	0.149
89	6/7/2016 14:07	0.105	0.122	0.149	0.137
90	6/7/2016 14:08	0.108	0.122	0.141	0.127
91	6/7/2016 14:09	0.103	0.113	0.128	0.105
92	6/7/2016 14:10	0.1	0.109	0.129	0.118
93	6/7/2016 14:11	0.104	0.121	0.136	0.129
94	6/7/2016 14:12	0.106	0.116	0.13	0.12
95	6/7/2016 14:13	0.115	0.123	0.135	0.121
96	6/7/2016 14:14	0.11	0.121	0.139	0.126
97	6/7/2016 14:15	0.104	0.117	0.132	0.119
98	6/7/2016 14:16	0.106	0.116	0.128	0.128
99	6/7/2016 14:17	0.096	0.109	0.128	0.1
100	6/7/2016 14:18	0.088	0.107	0.131	0.13
101	6/7/2016 14:19	0.107	0.121	0.14	0.124
102	6/7/2016 14:20	0.113	0.129	0.147	0.136
103	6/7/2016 14:21	0.113	0.123	0.145	0.113
104	6/7/2016 14:22	0.112	0.126	0.147	0.133
105	6/7/2016 14:23	0.128	0.138	0.148	0.144
106	6/7/2016 14:24	0.11	0.121	0.153	0.114

107	6/7/2016 14:25	0.115	0.125	0.139	0.123
108	6/7/2016 14:26	0.119	0.131	0.141	0.131
109	6/7/2016 14:27	0.126	0.136	0.146	0.137
110	6/7/2016 14:28	0.128	0.138	0.158	0.147
111	6/7/2016 14:29	0.119	0.133	0.154	0.125
112	6/7/2016 14:30	0.118	0.131	0.144	0.134
113	6/7/2016 14:31	0.12	0.13	0.144	0.134
114	6/7/2016 14:32	0.129	0.14	0.155	0.148
115	6/7/2016 14:33	0.124	0.133	0.151	0.135
116	6/7/2016 14:34	0.114	0.129	0.143	0.143
117	6/7/2016 14:35	0.116	0.139	0.158	0.13
118	6/7/2016 14:36	0.114	0.141	0.169	0.114
119	6/7/2016 14:37	0.114	0.126	0.147	0.144
120	6/7/2016 14:38	0.13	0.141	0.148	0.146
121	6/7/2016 14:39	0.13	0.135	0.146	0.13
122	6/7/2016 14:40	0.12	0.126	0.136	0.131
123	6/7/2016 14:41	0.105	0.122	0.133	0.115
124	6/7/2016 14:42	0.106	0.119	0.132	0.122
125	6/7/2016 14:43	0.113	0.126	0.142	0.142
126	6/7/2016 14:44	0.118	0.134	0.149	0.134
127	6/7/2016 14:45	0.115	0.13	0.138	0.136
128	6/7/2016 14:46	0.119	0.129	0.151	0.136
129	6/7/2016 14:47	0.128	0.143	0.159	0.155
130	6/7/2016 14:48	0.129	0.147	0.168	0.161
131	6/7/2016 14:49	0.148	0.156	0.167	0.163
132	6/7/2016 14:50	0.138	0.152	0.171	0.146
133	6/7/2016 14:51	0.137	0.151	0.164	0.145
134	6/7/2016 14:52	0.128	0.152	0.17	0.128
135	6/7/2016 14:53	0.123	0.136	0.159	0.123
136	6/7/2016 14:54	0.117	0.143	0.171	0.138
137	6/7/2016 14:55	0.119	0.128	0.147	0.147
138	6/7/2016 14:56	0.146	0.156	0.177	0.149
139	6/7/2016 14:57	0.15	0.174	0.189	0.189
140	6/7/2016 14:58	0.134	0.157	0.192	0.135
141	6/7/2016 14:59	0.13	0.147	0.169	0.169
142	6/7/2016 15:00	0.171	0.19	0.21	0.203
143	6/7/2016 15:01	0.142	0.184	0.2	0.142
144	6/7/2016 15:02	0.137	0.159	0.208	0.176
145	6/7/2016 15:03	0.156	0.179	0.21	0.205
146	6/7/2016 15:04	0.171	0.194	0.224	0.178
147	6/7/2016 15:05	0.15	0.169	0.191	0.163
148	6/7/2016 15:06	0.136	0.152	0.165	0.149
149	6/7/2016 15:07	0.15	0.177	0.218	0.208
150	6/7/2016 15:08	0.169	0.186	0.223	0.172
151	6/7/2016 15:09	0.151	0.163	0.192	0.158
152	6/7/2016 15:10	0.15	0.167	0.188	0.158
153	6/7/2016 15:11	0.131	0.158	0.179	0.132

154	6/7/2016 15:12	0.132	0.164	0.196	0.176
155	6/7/2016 15:13	0.128	0.159	0.178	0.132
156	6/7/2016 15:14	0.107	0.136	0.172	0.107
157	6/7/2016 15:15	0.102	0.112	0.132	0.131
158	6/7/2016 15:16	0.131	0.156	0.183	0.142
159	6/7/2016 15:17	0.131	0.145	0.157	0.151
160	6/7/2016 15:18	0.134	0.154	0.176	0.143
161	6/7/2016 15:19	0.139	0.145	0.159	0.145
162	6/7/2016 15:20	0.132	0.14	0.148	0.141
163	6/7/2016 15:21	0.115	0.134	0.153	0.153
164	6/7/2016 15:22	0.115	0.139	0.165	0.14
165	6/7/2016 15:23	0.105	0.121	0.138	0.129
166	6/7/2016 15:24	0.129	0.14	0.152	0.133
167	6/7/2016 15:25	0.109	0.124	0.136	0.131
168	6/7/2016 15:26	0.129	0.141	0.157	0.146
169	6/7/2016 15:27	0.126	0.139	0.154	0.127
170	6/7/2016 15:28	0.127	0.139	0.154	0.135
171	6/7/2016 15:29	0.112	0.124	0.136	0.124
172	6/7/2016 15:30	0.114	0.127	0.135	0.114
173	6/7/2016 15:31	0.113	0.122	0.139	0.115
174	6/7/2016 15:32	0.114	0.123	0.138	0.133
175	6/7/2016 15:33	0.113	0.128	0.141	0.122
176	6/7/2016 15:34	0.124	0.131	0.144	0.143
177	6/7/2016 15:35	0.099	0.116	0.145	0.124
178	6/7/2016 15:36	0.085	0.101	0.121	0.095
179	6/7/2016 15:37	0.084	0.096	0.122	0.091
180	6/7/2016 15:38	0.076	0.091	0.108	0.108
181	6/7/2016 15:39	0.105	0.113	0.13	0.129
182	6/7/2016 15:40	0.105	0.117	0.132	0.106
183	6/7/2016 15:41	0.095	0.107	0.127	0.127
184	6/7/2016 15:42	0.082	0.105	0.134	0.115
185	6/7/2016 15:43	0.087	0.101	0.122	0.105
186	6/7/2016 15:44	0.084	0.1	0.117	0.099
187	6/7/2016 15:45	0.101	0.116	0.127	0.113
188	6/7/2016 15:46	0.091	0.105	0.128	0.114
189	6/7/2016 15:47	0.096	0.117	0.143	0.137
190	6/7/2016 15:48	0.101	0.119	0.139	0.123
191	6/7/2016 15:49	0.099	0.109	0.127	0.111
192	6/7/2016 15:50	0.086	0.106	0.122	0.095
193	6/7/2016 15:51	0.089	0.1	0.11	0.101
194	6/7/2016 15:52	0.099	0.115	0.12	0.115
195	6/7/2016 15:53	0.077	0.086	0.112	0.079
196	6/7/2016 15:54	0.08	0.099	0.11	0.103
197	6/7/2016 15:55	0.097	0.105	0.123	0.123
198	6/7/2016 15:56	0.112	0.119	0.132	0.12
199	6/7/2016 15:57	0.092	0.111	0.125	0.122
200	6/7/2016 15:58	0.113	0.12	0.132	0.132

201	6/7/2016 15:59	0.103	0.121	0.143	0.106
202	6/7/2016 16:00	0.091	0.117	0.127	0.091
203	6/7/2016 16:01	0.087	0.1	0.114	0.105
204	6/7/2016 16:02	0.085	0.094	0.105	0.094
205	6/7/2016 16:03	0.074	0.084	0.099	0.085
206	6/7/2016 16:04	0.083	0.093	0.116	0.09
207	6/7/2016 16:05	0.092	0.116	0.13	0.127
208	6/7/2016 16:06	0.081	0.098	0.126	0.092
209	6/7/2016 16:07	0.095	0.103	0.116	0.102
210	6/7/2016 16:08	0.079	0.09	0.101	0.08
211	6/7/2016 16:09	0.081	0.101	0.122	0.113
212	6/7/2016 16:10	0.094	0.109	0.123	0.121
213	6/7/2016 16:11	0.079	0.099	0.12	0.106
214	6/7/2016 16:12	0.079	0.096	0.115	0.093
215	6/7/2016 16:13	0.094	0.114	0.12	0.113

Peak	0.171	0.194	0.224	0.208
Min	0	0	0	0
Average	0.084	0.099	0.118	0.1

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/7/2016 12:39	0	---
2	6/7/2016 12:40	0	---
3	6/7/2016 12:41	0	---
4	6/7/2016 12:42	0	---
5	6/7/2016 12:43	0	---
6	6/7/2016 12:44	0	---
7	6/7/2016 12:45	0	---
8	6/7/2016 12:46	0	---
9	6/7/2016 12:47	0	---
10	6/7/2016 12:48	0	---
11	6/7/2016 12:49	0	---
12	6/7/2016 12:50	0	---
13	6/7/2016 12:51	0	---
14	6/7/2016 12:52	0	---
15	6/7/2016 12:53	0	0.009
16	6/7/2016 12:54	0	0.009
17	6/7/2016 12:55	0	0.009
18	6/7/2016 12:56	0	0.009
19	6/7/2016 12:57	0	0.011

20	6/7/2016 12:58	0	0.013
21	6/7/2016 12:59	0	0.015
22	6/7/2016 13:00	0.001	0.018
23	6/7/2016 13:01	0.001	0.02
24	6/7/2016 13:02	0.001	0.021
25	6/7/2016 13:03	0.001	0.02
26	6/7/2016 13:04	0.001	0.019
27	6/7/2016 13:05	0.001	0.022
28	6/7/2016 13:06	0.001	0.025
29	6/7/2016 13:07	0.001	0.026
30	6/7/2016 13:08	0.001	0.029
31	6/7/2016 13:09	0.001	0.031
32	6/7/2016 13:10	0.001	0.036
33	6/7/2016 13:11	0.002	0.041
34	6/7/2016 13:12	0.002	0.042
35	6/7/2016 13:13	0.002	0.043
36	6/7/2016 13:14	0.002	0.046
37	6/7/2016 13:15	0.002	0.044
38	6/7/2016 13:16	0.002	0.043
39	6/7/2016 13:17	0.002	0.044
40	6/7/2016 13:18	0.002	0.045
41	6/7/2016 13:19	0.002	0.047
42	6/7/2016 13:20	0.002	0.046
43	6/7/2016 13:21	0.003	0.047
44	6/7/2016 13:22	0.003	0.049
45	6/7/2016 13:23	0.003	0.049
46	6/7/2016 13:24	0.003	0.05
47	6/7/2016 13:25	0.003	0.048
48	6/7/2016 13:26	0.003	0.046
49	6/7/2016 13:27	0.003	0.047
50	6/7/2016 13:28	0.003	0.05
51	6/7/2016 13:29	0.003	0.049
52	6/7/2016 13:30	0.004	0.053
53	6/7/2016 13:31	0.004	0.054
54	6/7/2016 13:32	0.004	0.056
55	6/7/2016 13:33	0.004	0.057
56	6/7/2016 13:34	0.004	0.058
57	6/7/2016 13:35	0.004	0.059
58	6/7/2016 13:36	0.004	0.06
59	6/7/2016 13:37	0.005	0.063
60	6/7/2016 13:38	0.005	0.065
61	6/7/2016 13:39	0.005	0.067
62	6/7/2016 13:40	0.005	0.071
63	6/7/2016 13:41	0.005	0.075
64	6/7/2016 13:42	0.005	0.076
65	6/7/2016 13:43	0.006	0.076
66	6/7/2016 13:44	0.006	0.077

67	6/7/2016 13:45	0.006	0.076
68	6/7/2016 13:46	0.006	0.079
69	6/7/2016 13:47	0.006	0.079
70	6/7/2016 13:48	0.006	0.08
71	6/7/2016 13:49	0.007	0.081
72	6/7/2016 13:50	0.007	0.083
73	6/7/2016 13:51	0.007	0.084
74	6/7/2016 13:52	0.007	0.085
75	6/7/2016 13:53	0.007	0.086
76	6/7/2016 13:54	0.008	0.086
77	6/7/2016 13:55	0.008	0.085
78	6/7/2016 13:56	0.008	0.084
79	6/7/2016 13:57	0.008	0.086
80	6/7/2016 13:58	0.008	0.087
81	6/7/2016 13:59	0.009	0.089
82	6/7/2016 14:00	0.009	0.091
83	6/7/2016 14:01	0.009	0.09
84	6/7/2016 14:02	0.009	0.093
85	6/7/2016 14:03	0.009	0.094
86	6/7/2016 14:04	0.01	0.097
87	6/7/2016 14:05	0.01	0.099
88	6/7/2016 14:06	0.01	0.102
89	6/7/2016 14:07	0.011	0.105
90	6/7/2016 14:08	0.011	0.108
91	6/7/2016 14:09	0.011	0.109
92	6/7/2016 14:10	0.011	0.112
93	6/7/2016 14:11	0.012	0.115
94	6/7/2016 14:12	0.012	0.115
95	6/7/2016 14:13	0.012	0.118
96	6/7/2016 14:14	0.012	0.119
97	6/7/2016 14:15	0.013	0.119
98	6/7/2016 14:16	0.013	0.122
99	6/7/2016 14:17	0.013	0.121
100	6/7/2016 14:18	0.013	0.123
101	6/7/2016 14:19	0.014	0.124
102	6/7/2016 14:20	0.014	0.125
103	6/7/2016 14:21	0.014	0.122
104	6/7/2016 14:22	0.014	0.122
105	6/7/2016 14:23	0.015	0.123
106	6/7/2016 14:24	0.015	0.124
107	6/7/2016 14:25	0.015	0.124
108	6/7/2016 14:26	0.015	0.124
109	6/7/2016 14:27	0.016	0.125
110	6/7/2016 14:28	0.016	0.127
111	6/7/2016 14:29	0.016	0.127
112	6/7/2016 14:30	0.017	0.128
113	6/7/2016 14:31	0.017	0.128

114	6/7/2016 14:32	0.017	0.132
115	6/7/2016 14:33	0.017	0.132
116	6/7/2016 14:34	0.018	0.133
117	6/7/2016 14:35	0.018	0.133
118	6/7/2016 14:36	0.018	0.133
119	6/7/2016 14:37	0.019	0.134
120	6/7/2016 14:38	0.019	0.134
121	6/7/2016 14:39	0.019	0.135
122	6/7/2016 14:40	0.019	0.135
123	6/7/2016 14:41	0.02	0.134
124	6/7/2016 14:42	0.02	0.133
125	6/7/2016 14:43	0.02	0.133
126	6/7/2016 14:44	0.02	0.133
127	6/7/2016 14:45	0.021	0.134
128	6/7/2016 14:46	0.021	0.134
129	6/7/2016 14:47	0.021	0.134
130	6/7/2016 14:48	0.022	0.136
131	6/7/2016 14:49	0.022	0.137
132	6/7/2016 14:50	0.022	0.138
133	6/7/2016 14:51	0.023	0.14
134	6/7/2016 14:52	0.023	0.139
135	6/7/2016 14:53	0.023	0.138
136	6/7/2016 14:54	0.023	0.138
137	6/7/2016 14:55	0.024	0.139
138	6/7/2016 14:56	0.024	0.142
139	6/7/2016 14:57	0.024	0.146
140	6/7/2016 14:58	0.025	0.146
141	6/7/2016 14:59	0.025	0.148
142	6/7/2016 15:00	0.025	0.152
143	6/7/2016 15:01	0.026	0.153
144	6/7/2016 15:02	0.026	0.154
145	6/7/2016 15:03	0.027	0.157
146	6/7/2016 15:04	0.027	0.158
147	6/7/2016 15:05	0.027	0.159
148	6/7/2016 15:06	0.028	0.16
149	6/7/2016 15:07	0.028	0.165
150	6/7/2016 15:08	0.028	0.168
151	6/7/2016 15:09	0.029	0.17
152	6/7/2016 15:10	0.029	0.17
153	6/7/2016 15:11	0.029	0.169
154	6/7/2016 15:12	0.03	0.168
155	6/7/2016 15:13	0.03	0.168
156	6/7/2016 15:14	0.03	0.164
157	6/7/2016 15:15	0.03	0.159
158	6/7/2016 15:16	0.031	0.159
159	6/7/2016 15:17	0.031	0.157
160	6/7/2016 15:18	0.031	0.153

161	6/7/2016 15:19	0.032	0.151
162	6/7/2016 15:20	0.032	0.15
163	6/7/2016 15:21	0.032	0.15
164	6/7/2016 15:22	0.033	0.145
165	6/7/2016 15:23	0.033	0.143
166	6/7/2016 15:24	0.033	0.141
167	6/7/2016 15:25	0.033	0.139
168	6/7/2016 15:26	0.034	0.14
169	6/7/2016 15:27	0.034	0.137
170	6/7/2016 15:28	0.034	0.137
171	6/7/2016 15:29	0.035	0.138
172	6/7/2016 15:30	0.035	0.137
173	6/7/2016 15:31	0.035	0.135
174	6/7/2016 15:32	0.035	0.134
175	6/7/2016 15:33	0.036	0.133
176	6/7/2016 15:34	0.036	0.132
177	6/7/2016 15:35	0.036	0.131
178	6/7/2016 15:36	0.036	0.127
179	6/7/2016 15:37	0.036	0.124
180	6/7/2016 15:38	0.037	0.123
181	6/7/2016 15:39	0.037	0.122
182	6/7/2016 15:40	0.037	0.121
183	6/7/2016 15:41	0.037	0.12
184	6/7/2016 15:42	0.038	0.119
185	6/7/2016 15:43	0.038	0.117
186	6/7/2016 15:44	0.038	0.115
187	6/7/2016 15:45	0.038	0.115
188	6/7/2016 15:46	0.039	0.115
189	6/7/2016 15:47	0.039	0.115
190	6/7/2016 15:48	0.039	0.115
191	6/7/2016 15:49	0.039	0.113
192	6/7/2016 15:50	0.04	0.111
193	6/7/2016 15:51	0.04	0.112
194	6/7/2016 15:52	0.04	0.113
195	6/7/2016 15:53	0.04	0.111
196	6/7/2016 15:54	0.04	0.11
197	6/7/2016 15:55	0.041	0.111
198	6/7/2016 15:56	0.041	0.11
199	6/7/2016 15:57	0.041	0.111
200	6/7/2016 15:58	0.041	0.112
201	6/7/2016 15:59	0.042	0.113
202	6/7/2016 16:00	0.042	0.111
203	6/7/2016 16:01	0.042	0.111
204	6/7/2016 16:02	0.042	0.108
205	6/7/2016 16:03	0.042	0.105
206	6/7/2016 16:04	0.043	0.104
207	6/7/2016 16:05	0.043	0.106

208	6/7/2016 16:06	0.043	0.106
209	6/7/2016 16:07	0.043	0.105
210	6/7/2016 16:08	0.043	0.105
211	6/7/2016 16:09	0.044	0.105
212	6/7/2016 16:10	0.044	0.105
213	6/7/2016 16:11	0.044	0.104
214	6/7/2016 16:12	0.044	0.102
215	6/7/2016 16:13	0.045	0.101

==========
16/06/08 09:06
****
Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	3
User ID	1

Begin	6/8/2016 9:06
End	6/8/2016 12:15
Sample Period(s)	60
Number of Records	189

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/8/2016 7:38
Peak	0.094
Min	0
Average	0.012

****

Datalog

Index	Date/Time	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)
1	6/8/2016 9:07	0.003	0.015	0.041	0.005
2	6/8/2016 9:08	0	0.004	0.013	0.001
3	6/8/2016 9:09	0	0	0.004	0
4	6/8/2016 9:10	0	0.002	0.011	0.001
5	6/8/2016 9:11	0	0	0.003	0
6	6/8/2016 9:12	0	0	0	0
7	6/8/2016 9:13	0	0	0	0
8	6/8/2016 9:14	0	0	0.003	0
9	6/8/2016 9:15	0	0	0.001	0
10	6/8/2016 9:16	0	0	0.001	0
11	6/8/2016 9:17	0	0	0	0
12	6/8/2016 9:18	0	0	0	0
13	6/8/2016 9:19	0	0	0	0
14	6/8/2016 9:20	0	0	0	0
15	6/8/2016 9:21	0	0	0	0
16	6/8/2016 9:22	0	0	0	0
17	6/8/2016 9:23	0	0	0	0
18	6/8/2016 9:24	0	0	0.002	0
19	6/8/2016 9:25	0	0	0	0
20	6/8/2016 9:26	0	0	0.001	0.001
21	6/8/2016 9:27	0	0	0	0
22	6/8/2016 9:28	0	0	0	0
23	6/8/2016 9:29	0	0	0.005	0
24	6/8/2016 9:30	0	0	0.003	0
25	6/8/2016 9:31	0	0	0.004	0
26	6/8/2016 9:32	0	0	0.006	0
27	6/8/2016 9:33	0	0	0	0
28	6/8/2016 9:34	0	0	0	0
29	6/8/2016 9:35	0	0	0	0
30	6/8/2016 9:36	0	0	0	0
31	6/8/2016 9:37	0	0	0	0
32	6/8/2016 9:38	0	0	0	0
33	6/8/2016 9:39	0	0	0	0
34	6/8/2016 9:40	0	0	0	0
35	6/8/2016 9:41	0	0	0	0
36	6/8/2016 9:42	0	0	0	0
37	6/8/2016 9:43	0	0	0	0
38	6/8/2016 9:44	0	0	0	0
39	6/8/2016 9:45	0	0	0	0
40	6/8/2016 9:46	0	0	0	0
41	6/8/2016 9:47	0	0	0	0
42	6/8/2016 9:48	0	0	0	0

43	6/8/2016 9:49	0	0	0	0
44	6/8/2016 9:50	0	0	0	0
45	6/8/2016 9:51	0	0	0	0
46	6/8/2016 9:52	0	0	0	0
47	6/8/2016 9:53	0	0	0	0
48	6/8/2016 9:54	0	0	0	0
49	6/8/2016 9:55	0	0	0	0
50	6/8/2016 9:56	0	0	0	0
51	6/8/2016 9:57	0	0	0	0
52	6/8/2016 9:58	0	0	0	0
53	6/8/2016 9:59	0	0	0	0
54	6/8/2016 10:00	0	0	0	0
55	6/8/2016 10:01	0	0	0	0
56	6/8/2016 10:02	0	0	0	0
57	6/8/2016 10:03	0	0	0	0
58	6/8/2016 10:04	0	0	0	0
59	6/8/2016 10:05	0	0	0	0
60	6/8/2016 10:06	0	0	0	0
61	6/8/2016 10:07	0	0	0.001	0.001
62	6/8/2016 10:08	0	0.012	0.094	0.094
63	6/8/2016 10:09	0	0.011	0.089	0
64	6/8/2016 10:10	0	0	0	0
65	6/8/2016 10:11	0	0	0	0
66	6/8/2016 10:12	0	0	0	0
67	6/8/2016 10:13	0	0	0	0
68	6/8/2016 10:14	0	0.002	0.009	0.005
69	6/8/2016 10:15	0	0.001	0.006	0.003
70	6/8/2016 10:16	0	0.007	0.017	0.017
71	6/8/2016 10:17	0.004	0.011	0.02	0.02
72	6/8/2016 10:18	0.008	0.017	0.028	0.017
73	6/8/2016 10:19	0.012	0.018	0.024	0.021
74	6/8/2016 10:20	0.014	0.025	0.042	0.02
75	6/8/2016 10:21	0.017	0.022	0.028	0.025
76	6/8/2016 10:22	0.026	0.037	0.06	0.033
77	6/8/2016 10:23	0.024	0.029	0.035	0.031
78	6/8/2016 10:24	0.028	0.032	0.04	0.034
79	6/8/2016 10:25	0.033	0.036	0.042	0.036
80	6/8/2016 10:26	0.033	0.039	0.045	0.043
81	6/8/2016 10:27	0.042	0.046	0.052	0.047
82	6/8/2016 10:28	0.032	0.038	0.046	0.041
83	6/8/2016 10:29	0.041	0.045	0.052	0.045
84	6/8/2016 10:30	0.039	0.048	0.06	0.05
85	6/8/2016 10:31	0.037	0.043	0.05	0.037
86	6/8/2016 10:32	0.04	0.045	0.05	0.041
87	6/8/2016 10:33	0.04	0.046	0.055	0.042
88	6/8/2016 10:34	0.043	0.05	0.057	0.054
89	6/8/2016 10:35	0.043	0.046	0.053	0.049

90	6/8/2016 10:36	0.047	0.054	0.062	0.062
91	6/8/2016 10:37	0.045	0.052	0.062	0.046
92	6/8/2016 10:38	0.031	0.045	0.052	0.052
93	6/8/2016 10:39	0.033	0.044	0.055	0.05
94	6/8/2016 10:40	0.04	0.048	0.057	0.053
95	6/8/2016 10:41	0.051	0.055	0.064	0.053
96	6/8/2016 10:42	0.047	0.057	0.066	0.057
97	6/8/2016 10:43	0.054	0.059	0.066	0.063
98	6/8/2016 10:44	0.061	0.065	0.07	0.069
99	6/8/2016 10:45	0.067	0.073	0.082	0.073
100	6/8/2016 10:46	0.066	0.07	0.076	0.071
101	6/8/2016 10:47	0.065	0.072	0.083	0.069
102	6/8/2016 10:48	0.042	0.055	0.067	0.046
103	6/8/2016 10:49	0.042	0.055	0.067	0.058
104	6/8/2016 10:50	0.054	0.069	0.084	0.065
105	6/8/2016 10:51	0.042	0.063	0.071	0.042
106	6/8/2016 10:52	0.039	0.043	0.053	0.039
107	6/8/2016 10:53	0.038	0.05	0.062	0.054
108	6/8/2016 10:54	0.04	0.053	0.065	0.064
109	6/8/2016 10:55	0.047	0.064	0.081	0.047
110	6/8/2016 10:56	0.046	0.056	0.066	0.059
111	6/8/2016 10:57	0.035	0.051	0.06	0.039
112	6/8/2016 10:58	0.025	0.034	0.041	0.038
113	6/8/2016 10:59	0.037	0.04	0.046	0.043
114	6/8/2016 11:00	0.033	0.043	0.053	0.047
115	6/8/2016 11:01	0	0.037	0.051	0
116	6/8/2016 11:02	0	0.034	0.089	0.07
117	6/8/2016 11:03	0	0.018	0.083	0.01
118	6/8/2016 11:04	0	0.004	0.021	0.008
119	6/8/2016 11:05	0	0.003	0.015	0.009
120	6/8/2016 11:06	0	0.005	0.021	0.003
121	6/8/2016 11:07	0	0.008	0.043	0.015
122	6/8/2016 11:08	0	0.019	0.068	0.005
123	6/8/2016 11:09	0	0.007	0.049	0.014
124	6/8/2016 11:10	0	0.003	0.014	0.01
125	6/8/2016 11:11	0	0.005	0.015	0.007
126	6/8/2016 11:12	0	0.005	0.021	0.004
127	6/8/2016 11:13	0	0.002	0.011	0
128	6/8/2016 11:14	0	0	0.006	0.006
129	6/8/2016 11:15	0	0.005	0.02	0.002
130	6/8/2016 11:16	0	0	0.002	0
131	6/8/2016 11:17	0	0	0.007	0
132	6/8/2016 11:18	0	0	0	0
133	6/8/2016 11:19	0	0	0	0
134	6/8/2016 11:20	0	0	0.004	0
135	6/8/2016 11:21	0	0	0.003	0
136	6/8/2016 11:22	0	0	0.001	0

137	6/8/2016 11:23	0	0	0	0
138	6/8/2016 11:24	0	0	0	0
139	6/8/2016 11:25	0	0	0	0
140	6/8/2016 11:26	0	0	0	0
141	6/8/2016 11:27	0	0	0	0
142	6/8/2016 11:28	0	0	0	0
143	6/8/2016 11:29	0	0	0	0
144	6/8/2016 11:30	0	0	0	0
145	6/8/2016 11:31	0	0.009	0.056	0
146	6/8/2016 11:32	0	0	0	0
147	6/8/2016 11:33	0	0	0	0
148	6/8/2016 11:34	0	0	0	0
149	6/8/2016 11:35	0	0	0	0
150	6/8/2016 11:36	0	0	0	0
151	6/8/2016 11:37	0	0	0	0
152	6/8/2016 11:38	0	0	0	0
153	6/8/2016 11:39	0	0	0	0
154	6/8/2016 11:40	0	0	0	0
155	6/8/2016 11:41	0	0	0	0
156	6/8/2016 11:42	0	0.001	0.029	0
157	6/8/2016 11:43	0	0.013	0.048	0
158	6/8/2016 11:44	0	0	0	0
159	6/8/2016 11:45	0	0	0	0
160	6/8/2016 11:46	0	0	0	0
161	6/8/2016 11:47	0	0	0	0
162	6/8/2016 11:48	0	0	0	0
163	6/8/2016 11:49	0	0	0	0
164	6/8/2016 11:50	0	0	0	0
165	6/8/2016 11:51	0	0	0	0
166	6/8/2016 11:52	0	0	0	0
167	6/8/2016 11:53	0	0	0	0
168	6/8/2016 11:54	0	0	0	0
169	6/8/2016 11:55	0	0	0	0
170	6/8/2016 11:56	0	0	0	0
171	6/8/2016 11:57	0	0	0	0
172	6/8/2016 11:58	0	0	0	0
173	6/8/2016 11:59	0	0	0	0
174	6/8/2016 12:00	0	0.003	0.032	0
175	6/8/2016 12:01	0	0	0	0
176	6/8/2016 12:02	0	0	0	0
177	6/8/2016 12:03	0	0	0	0
178	6/8/2016 12:04	0	0	0	0
179	6/8/2016 12:05	0	0	0	0
180	6/8/2016 12:06	0	0	0	0
181	6/8/2016 12:07	0	0	0.001	0
182	6/8/2016 12:08	0	0	0	0
183	6/8/2016 12:09	0	0	0	0

184	6/8/2016 12:10	0	0	0	0
185	6/8/2016 12:11	0	0	0	0
186	6/8/2016 12:12	0	0	0.003	0
187	6/8/2016 12:13	0	0	0.003	0
188	6/8/2016 12:14	0	0	0	0
189	6/8/2016 12:15	0	0	0	0

Peak	0.067	0.073	0.094	0.094
Min	0	0	0	0
Average	0.009	0.012	0.018	0.012

****

TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/8/2016 9:07	0	---
2	6/8/2016 9:08	0	---
3	6/8/2016 9:09	0	---
4	6/8/2016 9:10	0	---
5	6/8/2016 9:11	0	---
6	6/8/2016 9:12	0	---
7	6/8/2016 9:13	0	---
8	6/8/2016 9:14	0	---
9	6/8/2016 9:15	0	---
10	6/8/2016 9:16	0	---
11	6/8/2016 9:17	0	---
12	6/8/2016 9:18	0	---
13	6/8/2016 9:19	0	---
14	6/8/2016 9:20	0	---
15	6/8/2016 9:21	0	0
16	6/8/2016 9:22	0	0
17	6/8/2016 9:23	0	0
18	6/8/2016 9:24	0	0
19	6/8/2016 9:25	0	0
20	6/8/2016 9:26	0	0
21	6/8/2016 9:27	0	0
22	6/8/2016 9:28	0	0
23	6/8/2016 9:29	0	0
24	6/8/2016 9:30	0	0
25	6/8/2016 9:31	0	0
26	6/8/2016 9:32	0	0
27	6/8/2016 9:33	0	0
28	6/8/2016 9:34	0	0
29	6/8/2016 9:35	0	0
30	6/8/2016 9:36	0	0
31	6/8/2016 9:37	0	0

32	6/8/2016 9:38	0	0
33	6/8/2016 9:39	0	0
34	6/8/2016 9:40	0	0
35	6/8/2016 9:41	0	0
36	6/8/2016 9:42	0	0
37	6/8/2016 9:43	0	0
38	6/8/2016 9:44	0	0
39	6/8/2016 9:45	0	0
40	6/8/2016 9:46	0	0
41	6/8/2016 9:47	0	0
42	6/8/2016 9:48	0	0
43	6/8/2016 9:49	0	0
44	6/8/2016 9:50	0	0
45	6/8/2016 9:51	0	0
46	6/8/2016 9:52	0	0
47	6/8/2016 9:53	0	0
48	6/8/2016 9:54	0	0
49	6/8/2016 9:55	0	0
50	6/8/2016 9:56	0	0
51	6/8/2016 9:57	0	0
52	6/8/2016 9:58	0	0
53	6/8/2016 9:59	0	0
54	6/8/2016 10:00	0	0
55	6/8/2016 10:01	0	0
56	6/8/2016 10:02	0	0
57	6/8/2016 10:03	0	0
58	6/8/2016 10:04	0	0
59	6/8/2016 10:05	0	0
60	6/8/2016 10:06	0	0
61	6/8/2016 10:07	0	0
62	6/8/2016 10:08	0	0.006
63	6/8/2016 10:09	0	0.006
64	6/8/2016 10:10	0	0.006
65	6/8/2016 10:11	0	0.006
66	6/8/2016 10:12	0	0.006
67	6/8/2016 10:13	0	0.006
68	6/8/2016 10:14	0	0.007
69	6/8/2016 10:15	0	0.007
70	6/8/2016 10:16	0	0.008
71	6/8/2016 10:17	0	0.009
72	6/8/2016 10:18	0	0.01
73	6/8/2016 10:19	0	0.012
74	6/8/2016 10:20	0	0.013
75	6/8/2016 10:21	0	0.015
76	6/8/2016 10:22	0.001	0.017
77	6/8/2016 10:23	0.001	0.013
78	6/8/2016 10:24	0.001	0.015

79	6/8/2016 10:25	0.001	0.017
80	6/8/2016 10:26	0.001	0.02
81	6/8/2016 10:27	0.001	0.023
82	6/8/2016 10:28	0.001	0.026
83	6/8/2016 10:29	0.001	0.029
84	6/8/2016 10:30	0.001	0.032
85	6/8/2016 10:31	0.001	0.033
86	6/8/2016 10:32	0.001	0.035
87	6/8/2016 10:33	0.001	0.036
88	6/8/2016 10:34	0.002	0.039
89	6/8/2016 10:35	0.002	0.041
90	6/8/2016 10:36	0.002	0.043
91	6/8/2016 10:37	0.002	0.044
92	6/8/2016 10:38	0.002	0.045
93	6/8/2016 10:39	0.002	0.046
94	6/8/2016 10:40	0.002	0.047
95	6/8/2016 10:41	0.002	0.048
96	6/8/2016 10:42	0.002	0.049
97	6/8/2016 10:43	0.003	0.05
98	6/8/2016 10:44	0.003	0.052
99	6/8/2016 10:45	0.003	0.053
100	6/8/2016 10:46	0.003	0.056
101	6/8/2016 10:47	0.003	0.058
102	6/8/2016 10:48	0.003	0.058
103	6/8/2016 10:49	0.003	0.058
104	6/8/2016 10:50	0.004	0.059
105	6/8/2016 10:51	0.004	0.058
106	6/8/2016 10:52	0.004	0.057
107	6/8/2016 10:53	0.004	0.057
108	6/8/2016 10:54	0.004	0.058
109	6/8/2016 10:55	0.004	0.058
110	6/8/2016 10:56	0.004	0.058
111	6/8/2016 10:57	0.004	0.057
112	6/8/2016 10:58	0.004	0.056
113	6/8/2016 10:59	0.004	0.054
114	6/8/2016 11:00	0.005	0.052
115	6/8/2016 11:01	0.005	0.047
116	6/8/2016 11:02	0.005	0.047
117	6/8/2016 11:03	0.005	0.045
118	6/8/2016 11:04	0.005	0.042
119	6/8/2016 11:05	0.005	0.038
120	6/8/2016 11:06	0.005	0.035
121	6/8/2016 11:07	0.005	0.034
122	6/8/2016 11:08	0.005	0.03
123	6/8/2016 11:09	0.005	0.027
124	6/8/2016 11:10	0.005	0.025
125	6/8/2016 11:11	0.005	0.021

126	6/8/2016 11:12	0.005	0.019
127	6/8/2016 11:13	0.005	0.016
128	6/8/2016 11:14	0.005	0.014
129	6/8/2016 11:15	0.005	0.011
130	6/8/2016 11:16	0.005	0.011
131	6/8/2016 11:17	0.005	0.006
132	6/8/2016 11:18	0.005	0.006
133	6/8/2016 11:19	0.005	0.005
134	6/8/2016 11:20	0.005	0.004
135	6/8/2016 11:21	0.005	0.004
136	6/8/2016 11:22	0.005	0.003
137	6/8/2016 11:23	0.005	0.003
138	6/8/2016 11:24	0.005	0.002
139	6/8/2016 11:25	0.005	0.001
140	6/8/2016 11:26	0.005	0.001
141	6/8/2016 11:27	0.005	0.001
142	6/8/2016 11:28	0.005	0.001
143	6/8/2016 11:29	0.005	0
144	6/8/2016 11:30	0.005	0
145	6/8/2016 11:31	0.005	0
146	6/8/2016 11:32	0.005	0
147	6/8/2016 11:33	0.005	0
148	6/8/2016 11:34	0.005	0
149	6/8/2016 11:35	0.005	0
150	6/8/2016 11:36	0.005	0
151	6/8/2016 11:37	0.005	0
152	6/8/2016 11:38	0.005	0
153	6/8/2016 11:39	0.005	0
154	6/8/2016 11:40	0.005	0
155	6/8/2016 11:41	0.005	0
156	6/8/2016 11:42	0.005	0
157	6/8/2016 11:43	0.005	0
158	6/8/2016 11:44	0.005	0
159	6/8/2016 11:45	0.005	0
160	6/8/2016 11:46	0.005	0
161	6/8/2016 11:47	0.005	0
162	6/8/2016 11:48	0.005	0
163	6/8/2016 11:49	0.005	0
164	6/8/2016 11:50	0.005	0
165	6/8/2016 11:51	0.005	0
166	6/8/2016 11:52	0.005	0
167	6/8/2016 11:53	0.005	0
168	6/8/2016 11:54	0.005	0
169	6/8/2016 11:55	0.005	0
170	6/8/2016 11:56	0.005	0
171	6/8/2016 11:57	0.005	0
172	6/8/2016 11:58	0.005	0

173	6/8/2016 11:59	0.005	0
174	6/8/2016 12:00	0.005	0
175	6/8/2016 12:01	0.005	0
176	6/8/2016 12:02	0.005	0
177	6/8/2016 12:03	0.005	0
178	6/8/2016 12:04	0.005	0
179	6/8/2016 12:05	0.005	0
180	6/8/2016 12:06	0.005	0
181	6/8/2016 12:07	0.005	0
182	6/8/2016 12:08	0.005	0
183	6/8/2016 12:09	0.005	0
184	6/8/2016 12:10	0.005	0
185	6/8/2016 12:11	0.005	0
186	6/8/2016 12:12	0.005	0
187	6/8/2016 12:13	0.005	0
188	6/8/2016 12:14	0.005	0
189	6/8/2016 12:15	0.005	0

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16/06/10 14:53
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	6
User ID	1

Begin	6/10/2016 14:53
End	6/10/2016 14:54
Sample Period(s)	60
Number of Records	0

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50

High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/10/2016 7:48

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Datalog

0 record.

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16/06/10 14:54
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A
Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User
Site ID	7
User ID	1
Begin	6/10/2016 14:54
End	6/10/2016 15:32
Sample Period(s)	60
Number of Records	38
Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/10/2016 7:48
Peak	0.099

Min	0.015
Average	0.068

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Datalog

Index	Date/Time	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)
1	6/10/2016 14:55	0	0.012	0.022	0.015
2	6/10/2016 14:56	0.016	0.025	0.032	0.021
3	6/10/2016 14:57	0.015	0.023	0.033	0.019
4	6/10/2016 14:58	0.019	0.032	0.04	0.036
5	6/10/2016 14:59	0.031	0.048	0.063	0.059
6	6/10/2016 15:00	0.044	0.054	0.067	0.046
7	6/10/2016 15:01	0.044	0.056	0.068	0.068
8	6/10/2016 15:02	0.062	0.068	0.076	0.07
9	6/10/2016 15:03	0.046	0.052	0.066	0.048
10	6/10/2016 15:04	0.043	0.047	0.052	0.048
11	6/10/2016 15:05	0.042	0.053	0.071	0.071
12	6/10/2016 15:06	0.061	0.071	0.076	0.061
13	6/10/2016 15:07	0.057	0.065	0.081	0.08
14	6/10/2016 15:08	0.056	0.069	0.08	0.069
15	6/10/2016 15:09	0.055	0.072	0.087	0.071
16	6/10/2016 15:10	0.064	0.07	0.085	0.085
17	6/10/2016 15:11	0.058	0.072	0.087	0.062
18	6/10/2016 15:12	0.056	0.061	0.068	0.06
19	6/10/2016 15:13	0.06	0.067	0.077	0.072
20	6/10/2016 15:14	0.066	0.08	0.091	0.08
21	6/10/2016 15:15	0.072	0.088	0.107	0.093
22	6/10/2016 15:16	0.065	0.075	0.09	0.068
23	6/10/2016 15:17	0.061	0.073	0.09	0.09
24	6/10/2016 15:18	0.078	0.093	0.103	0.078
25	6/10/2016 15:19	0.06	0.068	0.076	0.063
26	6/10/2016 15:20	0.06	0.066	0.078	0.072
27	6/10/2016 15:21	0.071	0.08	0.088	0.088
28	6/10/2016 15:22	0.065	0.073	0.09	0.069
29	6/10/2016 15:23	0.065	0.07	0.081	0.081
30	6/10/2016 15:24	0.069	0.079	0.085	0.083
31	6/10/2016 15:25	0.07	0.082	0.094	0.075
32	6/10/2016 15:26	0.071	0.079	0.089	0.084
33	6/10/2016 15:27	0.078	0.088	0.099	0.099
34	6/10/2016 15:28	0.071	0.084	0.1	0.071
35	6/10/2016 15:29	0.067	0.09	0.201	0.079
36	6/10/2016 15:30	0.061	0.067	0.079	0.064
37	6/10/2016 15:31	0.064	0.083	0.098	0.097
38	6/10/2016 15:32	0.073	0.09	0.101	0.073

Peak	0.078	0.093	0.201	0.099
Min	0	0.012	0.022	0.015
Average	0.056	0.066	0.081	0.068

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/10/2016 14:55	0	---
2	6/10/2016 14:56	0	---
3	6/10/2016 14:57	0	---
4	6/10/2016 14:58	0	---
5	6/10/2016 14:59	0	---
6	6/10/2016 15:00	0	---
7	6/10/2016 15:01	0.001	---
8	6/10/2016 15:02	0.001	---
9	6/10/2016 15:03	0.001	---
10	6/10/2016 15:04	0.001	---
11	6/10/2016 15:05	0.001	---
12	6/10/2016 15:06	0.001	---
13	6/10/2016 15:07	0.001	---
14	6/10/2016 15:08	0.001	---
15	6/10/2016 15:09	0.002	0.052
16	6/10/2016 15:10	0.002	0.057
17	6/10/2016 15:11	0.002	0.06
18	6/10/2016 15:12	0.002	0.062
19	6/10/2016 15:13	0.002	0.065
20	6/10/2016 15:14	0.002	0.066
21	6/10/2016 15:15	0.003	0.069
22	6/10/2016 15:16	0.003	0.069
23	6/10/2016 15:17	0.003	0.071
24	6/10/2016 15:18	0.003	0.073
25	6/10/2016 15:19	0.003	0.074
26	6/10/2016 15:20	0.003	0.074
27	6/10/2016 15:21	0.004	0.075
28	6/10/2016 15:22	0.004	0.075
29	6/10/2016 15:23	0.004	0.075
30	6/10/2016 15:24	0.004	0.076
31	6/10/2016 15:25	0.004	0.076
32	6/10/2016 15:26	0.004	0.077
33	6/10/2016 15:27	0.005	0.08
34	6/10/2016 15:28	0.005	0.08
35	6/10/2016 15:29	0.005	0.08
36	6/10/2016 15:30	0.005	0.078

37	6/10/2016 15:31	0.005	0.08
38	6/10/2016 15:32	0.005	0.078

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16/06/12 13:39
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Power Down

Site ID	13
User ID	1

Begin	6/12/2016 13:39
End	6/12/2016 13:40
Sample Period(s)	60
Number of Records	0

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/12/2016 7:51

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Datalog

0 record.

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16/06/13 08:14
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A
Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User
Site ID	16
User ID	1
Begin	6/13/2016 8:14
End	6/13/2016 8:43
Sample Period(s)	60
Number of Records	28
Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/13/2016 7:19
Peak	0.105
Min	0
Average	0.041

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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Min)	(Avg)	(Max)	(Real)
1	6/13/2016 8:15	0	0.051	0.127	0.046
2	6/13/2016 8:16	0	0.013	0.066	0.009
3	6/13/2016 8:17	0	0.028	0.071	0.071
4	6/13/2016 8:18	0	0.042	0.12	0
5	6/13/2016 8:19	0	0.018	0.049	0.013
6	6/13/2016 8:20	0.006	0.032	0.073	0.048
7	6/13/2016 8:21	0.006	0.023	0.049	0.049
8	6/13/2016 8:22	0.024	0.063	0.103	0.029

9	6/13/2016 8:23	0	0.026	0.073	0.014
10	6/13/2016 8:24	0.008	0.042	0.101	0.038
11	6/13/2016 8:25	0.001	0.036	0.079	0.044
12	6/13/2016 8:26	0.001	0.041	0.099	0.067
13	6/13/2016 8:27	0.001	0.041	0.126	0.051
14	6/13/2016 8:28	0	0.027	0.06	0.032
15	6/13/2016 8:29	0.018	0.064	0.135	0.033
16	6/13/2016 8:30	0.001	0.024	0.077	0.077
17	6/13/2016 8:31	0.014	0.069	0.118	0.083
18	6/13/2016 8:32	0.022	0.07	0.105	0.105
19	6/13/2016 8:33	0.014	0.049	0.106	0.038
20	6/13/2016 8:34	0	0.053	0.13	0.04
21	6/13/2016 8:35	0	0.016	0.048	0.015
22	6/13/2016 8:36	0	0.032	0.071	0.015
23	6/13/2016 8:37	0	0.037	0.099	0.023
24	6/13/2016 8:38	0.012	0.034	0.064	0.018
25	6/13/2016 8:39	0	0.031	0.067	0
26	6/13/2016 8:40	0	0.033	0.094	0.094
27	6/13/2016 8:41	0.012	0.068	0.128	0.039
28	6/13/2016 8:42	0.01	0.062	0.101	0.067

Peak	0.024	0.07	0.135	0.105
Min	0	0.013	0.048	0
Average	0.005	0.04	0.091	0.041

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/13/2016 8:15	0	---
2	6/13/2016 8:16	0	---
3	6/13/2016 8:17	0	---
4	6/13/2016 8:18	0	---
5	6/13/2016 8:19	0	---
6	6/13/2016 8:20	0	---
7	6/13/2016 8:21	0	---
8	6/13/2016 8:22	0.001	---
9	6/13/2016 8:23	0.001	---
10	6/13/2016 8:24	0.001	---
11	6/13/2016 8:25	0.001	---
12	6/13/2016 8:26	0.001	---
13	6/13/2016 8:27	0.001	---
14	6/13/2016 8:28	0.001	---

15	6/13/2016 8:29	0.001	0.036
16	6/13/2016 8:30	0.001	0.038
17	6/13/2016 8:31	0.001	0.043
18	6/13/2016 8:32	0.002	0.046
19	6/13/2016 8:33	0.002	0.048
20	6/13/2016 8:34	0.002	0.05
21	6/13/2016 8:35	0.002	0.048
22	6/13/2016 8:36	0.002	0.045
23	6/13/2016 8:37	0.002	0.045
24	6/13/2016 8:38	0.002	0.045
25	6/13/2016 8:39	0.002	0.043
26	6/13/2016 8:40	0.002	0.046
27	6/13/2016 8:41	0.002	0.044
28	6/13/2016 8:42	0.002	0.045

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16/06/13 09:01
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	17
User ID	1

Begin	6/13/2016 9:01
End	6/13/2016 13:07
Sample Period(s)	60
Number of Records	246

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25

TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/13/2016 7:19
Peak	0.102
Min	0
Average	0.004

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Datalog

Index	Date/Time	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)
1	6/13/2016 9:02	0	0	0	0
2	6/13/2016 9:03	0	0.045	0.208	0.054
3	6/13/2016 9:04	0	0.02	0.134	0
4	6/13/2016 9:05	0	0.024	0.139	0
5	6/13/2016 9:06	0	0.003	0.027	0
6	6/13/2016 9:07	0	0	0.002	0.002
7	6/13/2016 9:08	0	0.001	0.011	0.005
8	6/13/2016 9:09	0	0.029	0.345	0
9	6/13/2016 9:10	0	0.001	0.014	0
10	6/13/2016 9:11	0	0	0.006	0
11	6/13/2016 9:12	0	0.005	0.045	0
12	6/13/2016 9:13	0	0.013	0.057	0.005
13	6/13/2016 9:14	0	0.027	0.104	0
14	6/13/2016 9:15	0	0	0	0
15	6/13/2016 9:16	0	0.001	0.018	0
16	6/13/2016 9:17	0	0.012	0.069	0
17	6/13/2016 9:18	0	0	0	0
18	6/13/2016 9:19	0	0	0.006	0
19	6/13/2016 9:20	0	0.003	0.023	0.018
20	6/13/2016 9:21	0	0	0.012	0
21	6/13/2016 9:22	0	0.014	0.071	0
22	6/13/2016 9:23	0	0	0.005	0
23	6/13/2016 9:24	0	0.002	0.013	0
24	6/13/2016 9:25	0	0.008	0.041	0
25	6/13/2016 9:26	0	0	0	0
26	6/13/2016 9:27	0	0	0	0
27	6/13/2016 9:28	0	0	0	0
28	6/13/2016 9:29	0	0	0	0
29	6/13/2016 9:30	0	0.001	0.01	0.004
30	6/13/2016 9:31	0	0	0	0
31	6/13/2016 9:32	0	0	0	0
32	6/13/2016 9:33	0	0	0	0
33	6/13/2016 9:34	0	0	0	0

34	6/13/2016 9:35	0	0	0	0
35	6/13/2016 9:36	0	0	0	0
36	6/13/2016 9:37	0	0	0	0
37	6/13/2016 9:38	0	0	0	0
38	6/13/2016 9:39	0	0	0	0
39	6/13/2016 9:40	0	0	0	0
40	6/13/2016 9:41	0	0.001	0.017	0
41	6/13/2016 9:42	0	0	0	0
42	6/13/2016 9:43	0	0	0	0
43	6/13/2016 9:44	0	0	0	0
44	6/13/2016 9:45	0	0	0	0
45	6/13/2016 9:46	0	0	0	0
46	6/13/2016 9:47	0	0.002	0.02	0
47	6/13/2016 9:48	0	0	0.001	0
48	6/13/2016 9:49	0	0	0.006	0
49	6/13/2016 9:50	0	0	0.014	0.014
50	6/13/2016 9:51	0	0	0.014	0
51	6/13/2016 9:52	0	0	0	0
52	6/13/2016 9:53	0	0	0	0
53	6/13/2016 9:54	0	0	0.006	0
54	6/13/2016 9:55	0	0	0	0
55	6/13/2016 9:56	0	0	0	0
56	6/13/2016 9:57	0	0	0	0
57	6/13/2016 9:58	0	0.006	0.052	0
58	6/13/2016 9:59	0	0	0	0
59	6/13/2016 10:00	0	0	0	0
60	6/13/2016 10:01	0	0.002	0.033	0
61	6/13/2016 10:02	0	0	0	0
62	6/13/2016 10:03	0	0	0.008	0
63	6/13/2016 10:04	0	0	0	0
64	6/13/2016 10:05	0	0.006	0.044	0
65	6/13/2016 10:06	0	0	0.003	0
66	6/13/2016 10:07	0	0	0	0
67	6/13/2016 10:08	0	0	0.001	0
68	6/13/2016 10:09	0	0	0	0
69	6/13/2016 10:10	0	0	0	0
70	6/13/2016 10:11	0	0.005	0.024	0.015
71	6/13/2016 10:12	0	0.018	0.052	0
72	6/13/2016 10:13	0	0.002	0.024	0
73	6/13/2016 10:14	0	0	0.007	0
74	6/13/2016 10:15	0	0	0	0
75	6/13/2016 10:16	0	0	0.008	0
76	6/13/2016 10:17	0	0	0	0
77	6/13/2016 10:18	0	0.001	0.011	0.002
78	6/13/2016 10:19	0	0	0.01	0
79	6/13/2016 10:20	0	0	0	0
80	6/13/2016 10:21	0	0.004	0.028	0.025

81	6/13/2016 10:22	0	0.003	0.029	0
82	6/13/2016 10:23	0	0	0	0
83	6/13/2016 10:24	0	0	0	0
84	6/13/2016 10:25	0	0	0.01	0.008
85	6/13/2016 10:26	0	0	0.009	0
86	6/13/2016 10:27	0	0	0.002	0
87	6/13/2016 10:28	0	0	0.011	0.001
88	6/13/2016 10:29	0	0.001	0.01	0
89	6/13/2016 10:30	0	0	0	0
90	6/13/2016 10:31	0	0	0	0
91	6/13/2016 10:32	0	0.006	0.047	0
92	6/13/2016 10:33	0	0	0.007	0
93	6/13/2016 10:34	0	0	0.001	0
94	6/13/2016 10:35	0	0	0.006	0
95	6/13/2016 10:36	0	0	0	0
96	6/13/2016 10:37	0	0	0	0
97	6/13/2016 10:38	0	0	0.012	0
98	6/13/2016 10:39	0	0	0.001	0
99	6/13/2016 10:40	0	0	0	0
100	6/13/2016 10:41	0	0	0	0
101	6/13/2016 10:42	0	0	0	0
102	6/13/2016 10:43	0	0	0.004	0
103	6/13/2016 10:44	0	0	0	0
104	6/13/2016 10:45	0	0.001	0.02	0
105	6/13/2016 10:46	0	0	0.005	0
106	6/13/2016 10:47	0	0	0	0
107	6/13/2016 10:48	0	0	0	0
108	6/13/2016 10:49	0	0	0.001	0
109	6/13/2016 10:50	0	0	0	0
110	6/13/2016 10:51	0	0	0	0
111	6/13/2016 10:52	0	0	0	0
112	6/13/2016 10:53	0	0	0.001	0
113	6/13/2016 10:54	0	0	0	0
114	6/13/2016 10:55	0	0.001	0.022	0
115	6/13/2016 10:56	0	0	0	0
116	6/13/2016 10:57	0	0.002	0.022	0
117	6/13/2016 10:58	0	0	0.001	0
118	6/13/2016 10:59	0	0.001	0.009	0
119	6/13/2016 11:00	0	0	0	0
120	6/13/2016 11:01	0	0.004	0.02	0.002
121	6/13/2016 11:02	0	0	0.005	0
122	6/13/2016 11:03	0	0	0	0
123	6/13/2016 11:04	0	0	0	0
124	6/13/2016 11:05	0	0	0	0
125	6/13/2016 11:06	0	0	0	0
126	6/13/2016 11:07	0	0	0	0
127	6/13/2016 11:08	0	0	0.002	0

128	6/13/2016 11:09	0	0	0.002	0
129	6/13/2016 11:10	0	0	0	0
130	6/13/2016 11:11	0	0	0	0
131	6/13/2016 11:12	0	0	0.003	0
132	6/13/2016 11:13	0	0	0	0
133	6/13/2016 11:14	0	0	0	0
134	6/13/2016 11:15	0	0	0	0
135	6/13/2016 11:16	0	0	0	0
136	6/13/2016 11:17	0	0	0	0
137	6/13/2016 11:18	0	0.002	0.031	0
138	6/13/2016 11:19	0	0.001	0.013	0
139	6/13/2016 11:20	0	0.002	0.03	0
140	6/13/2016 11:21	0	0	0.01	0
141	6/13/2016 11:22	0	0	0.001	0
142	6/13/2016 11:23	0	0	0	0
143	6/13/2016 11:24	0	0	0.001	0
144	6/13/2016 11:25	0	0	0.005	0
145	6/13/2016 11:26	0	0	0	0
146	6/13/2016 11:27	0	0	0	0
147	6/13/2016 11:28	0	0.001	0.017	0
148	6/13/2016 11:29	0	0	0.006	0.006
149	6/13/2016 11:30	0	0	0.006	0
150	6/13/2016 11:31	0	0	0	0
151	6/13/2016 11:32	0	0	0.002	0.002
152	6/13/2016 11:33	0	0	0.012	0.012
153	6/13/2016 11:34	0	0.002	0.027	0.027
154	6/13/2016 11:35	0	0	0.02	0
155	6/13/2016 11:36	0	0	0.001	0.001
156	6/13/2016 11:37	0	0.011	0.035	0.012
157	6/13/2016 11:38	0	0.003	0.023	0.016
158	6/13/2016 11:39	0	0.003	0.033	0.01
159	6/13/2016 11:40	0	0.008	0.023	0
160	6/13/2016 11:41	0	0.001	0.015	0
161	6/13/2016 11:42	0	0	0	0
162	6/13/2016 11:43	0	0	0.002	0
163	6/13/2016 11:44	0	0.008	0.043	0.003
164	6/13/2016 11:45	0	0.005	0.047	0
165	6/13/2016 11:46	0	0	0	0
166	6/13/2016 11:47	0	0	0	0
167	6/13/2016 11:48	0	0	0.004	0
168	6/13/2016 11:49	0	0	0	0
169	6/13/2016 11:50	0	0	0	0
170	6/13/2016 11:51	0	0	0.008	0
171	6/13/2016 11:52	0	0	0	0
172	6/13/2016 11:53	0	0.001	0.024	0
173	6/13/2016 11:54	0	0	0.01	0
174	6/13/2016 11:55	0	0.001	0.006	0

175	6/13/2016 11:56	0	0	0	0
176	6/13/2016 11:57	0	0	0	0
177	6/13/2016 11:58	0	0	0	0
178	6/13/2016 11:59	0	0	0.004	0
179	6/13/2016 12:00	0	0.001	0.024	0
180	6/13/2016 12:01	0	0	0	0
181	6/13/2016 12:02	0	0	0.004	0
182	6/13/2016 12:03	0	0	0	0
183	6/13/2016 12:04	0	0	0.008	0
184	6/13/2016 12:05	0	0	0.001	0
185	6/13/2016 12:06	0	0	0	0
186	6/13/2016 12:07	0	0	0.001	0
187	6/13/2016 12:08	0	0.001	0.009	0.003
188	6/13/2016 12:09	0.001	0.009	0.03	0.001
189	6/13/2016 12:10	0.002	0.013	0.031	0.005
190	6/13/2016 12:11	0	0.012	0.035	0.01
191	6/13/2016 12:12	0	0.005	0.022	0.01
192	6/13/2016 12:13	0	0.004	0.017	0.01
193	6/13/2016 12:14	0	0.004	0.017	0
194	6/13/2016 12:15	0	0	0	0
195	6/13/2016 12:16	0	0.006	0.036	0.033
196	6/13/2016 12:17	0	0.004	0.03	0
197	6/13/2016 12:18	0	0.005	0.061	0
198	6/13/2016 12:19	0	0.006	0.052	0
199	6/13/2016 12:20	0	0	0.004	0
200	6/13/2016 12:21	0	0.004	0.042	0.042
201	6/13/2016 12:22	0	0.019	0.057	0
202	6/13/2016 12:23	0	0	0	0
203	6/13/2016 12:24	0	0.001	0.009	0
204	6/13/2016 12:25	0	0.006	0.04	0.019
205	6/13/2016 12:26	0	0.004	0.026	0
206	6/13/2016 12:27	0	0.01	0.041	0
207	6/13/2016 12:28	0	0.001	0.014	0
208	6/13/2016 12:29	0	0.002	0.023	0.004
209	6/13/2016 12:30	0	0.011	0.027	0
210	6/13/2016 12:31	0	0	0.004	0
211	6/13/2016 12:32	0	0	0.012	0
212	6/13/2016 12:33	0	0	0	0
213	6/13/2016 12:34	0	0.004	0.013	0.002
214	6/13/2016 12:35	0	0.006	0.027	0.005
215	6/13/2016 12:36	0	0.019	0.056	0.031
216	6/13/2016 12:37	0	0.017	0.046	0.022
217	6/13/2016 12:38	0	0.011	0.033	0.017
218	6/13/2016 12:39	0	0.004	0.049	0.001
219	6/13/2016 12:40	0	0.005	0.032	0.002
220	6/13/2016 12:41	0	0.001	0.008	0
221	6/13/2016 12:42	0	0.006	0.033	0.006

222	6/13/2016 12:43	0	0.015	0.054	0.054
223	6/13/2016 12:44	0	0.003	0.054	0
224	6/13/2016 12:45	0	0	0	0
225	6/13/2016 12:46	0	0	0.001	0
226	6/13/2016 12:47	0	0.001	0.011	0
227	6/13/2016 12:48	0	0	0.005	0.004
228	6/13/2016 12:49	0	0.003	0.019	0
229	6/13/2016 12:50	0	0	0.001	0
230	6/13/2016 12:51	0	0.004	0.042	0
231	6/13/2016 12:52	0	0	0	0
232	6/13/2016 12:53	0	0.004	0.036	0.014
233	6/13/2016 12:54	0	0.009	0.028	0.023
234	6/13/2016 12:55	0	0.008	0.037	0
235	6/13/2016 12:56	0	0.009	0.048	0
236	6/13/2016 12:57	0	0.015	0.032	0.017
237	6/13/2016 12:58	0.016	0.032	0.06	0.021
238	6/13/2016 12:59	0.017	0.032	0.051	0.051
239	6/13/2016 13:00	0.018	0.04	0.064	0.062
240	6/13/2016 13:01	0.015	0.041	0.075	0.028
241	6/13/2016 13:02	0	0.033	0.08	0.001
242	6/13/2016 13:03	0	0.012	0.024	0
243	6/13/2016 13:04	0	0.01	0.048	0.048
244	6/13/2016 13:05	0.002	0.034	0.065	0.053
245	6/13/2016 13:06	0.002	0.036	0.057	0.054
246	6/13/2016 13:07	0.04	0.074	0.102	0.102

Peak	0.04	0.074	0.345	0.102
Min	0	0	0	0
Average	0	0.004	0.018	0.004

****

TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/13/2016 9:02	0	---
2	6/13/2016 9:03	0	---
3	6/13/2016 9:04	0	---
4	6/13/2016 9:05	0	---
5	6/13/2016 9:06	0	---
6	6/13/2016 9:07	0	---
7	6/13/2016 9:08	0	---
8	6/13/2016 9:09	0	---
9	6/13/2016 9:10	0	---
10	6/13/2016 9:11	0	---
11	6/13/2016 9:12	0	---
12	6/13/2016 9:13	0	---

13	6/13/2016 9:14	0	---
14	6/13/2016 9:15	0	---
15	6/13/2016 9:16	0	0.004
16	6/13/2016 9:17	0	0.004
17	6/13/2016 9:18	0	0.001
18	6/13/2016 9:19	0	0.001
19	6/13/2016 9:20	0	0.002
20	6/13/2016 9:21	0	0.002
21	6/13/2016 9:22	0	0.002
22	6/13/2016 9:23	0	0.002
23	6/13/2016 9:24	0	0.002
24	6/13/2016 9:25	0	0.002
25	6/13/2016 9:26	0	0.002
26	6/13/2016 9:27	0	0.002
27	6/13/2016 9:28	0	0.001
28	6/13/2016 9:29	0	0.001
29	6/13/2016 9:30	0	0.001
30	6/13/2016 9:31	0	0.001
31	6/13/2016 9:32	0	0.001
32	6/13/2016 9:33	0	0.001
33	6/13/2016 9:34	0	0.001
34	6/13/2016 9:35	0	0
35	6/13/2016 9:36	0	0
36	6/13/2016 9:37	0	0
37	6/13/2016 9:38	0	0
38	6/13/2016 9:39	0	0
39	6/13/2016 9:40	0	0
40	6/13/2016 9:41	0	0
41	6/13/2016 9:42	0	0
42	6/13/2016 9:43	0	0
43	6/13/2016 9:44	0	0
44	6/13/2016 9:45	0	0
45	6/13/2016 9:46	0	0
46	6/13/2016 9:47	0	0
47	6/13/2016 9:48	0	0
48	6/13/2016 9:49	0	0
49	6/13/2016 9:50	0	0.001
50	6/13/2016 9:51	0	0.001
51	6/13/2016 9:52	0	0.001
52	6/13/2016 9:53	0	0.001
53	6/13/2016 9:54	0	0.001
54	6/13/2016 9:55	0	0.001
55	6/13/2016 9:56	0	0.001
56	6/13/2016 9:57	0	0.001
57	6/13/2016 9:58	0	0.001
58	6/13/2016 9:59	0	0.001
59	6/13/2016 10:00	0	0.001

60	6/13/2016 10:01	0	0.001
61	6/13/2016 10:02	0	0.001
62	6/13/2016 10:03	0	0.001
63	6/13/2016 10:04	0	0.001
64	6/13/2016 10:05	0	0
65	6/13/2016 10:06	0	0
66	6/13/2016 10:07	0	0
67	6/13/2016 10:08	0	0
68	6/13/2016 10:09	0	0
69	6/13/2016 10:10	0	0
70	6/13/2016 10:11	0	0.001
71	6/13/2016 10:12	0	0.001
72	6/13/2016 10:13	0	0.001
73	6/13/2016 10:14	0	0.001
74	6/13/2016 10:15	0	0.001
75	6/13/2016 10:16	0	0.001
76	6/13/2016 10:17	0	0.001
77	6/13/2016 10:18	0	0.001
78	6/13/2016 10:19	0	0.001
79	6/13/2016 10:20	0	0.001
80	6/13/2016 10:21	0	0.003
81	6/13/2016 10:22	0	0.003
82	6/13/2016 10:23	0	0.003
83	6/13/2016 10:24	0	0.003
84	6/13/2016 10:25	0	0.003
85	6/13/2016 10:26	0	0.002
86	6/13/2016 10:27	0	0.002
87	6/13/2016 10:28	0	0.002
88	6/13/2016 10:29	0	0.002
89	6/13/2016 10:30	0	0.002
90	6/13/2016 10:31	0	0.002
91	6/13/2016 10:32	0	0.002
92	6/13/2016 10:33	0	0.002
93	6/13/2016 10:34	0	0.002
94	6/13/2016 10:35	0	0.002
95	6/13/2016 10:36	0	0.001
96	6/13/2016 10:37	0	0.001
97	6/13/2016 10:38	0	0.001
98	6/13/2016 10:39	0	0.001
99	6/13/2016 10:40	0	0
100	6/13/2016 10:41	0	0
101	6/13/2016 10:42	0	0
102	6/13/2016 10:43	0	0
103	6/13/2016 10:44	0	0
104	6/13/2016 10:45	0	0
105	6/13/2016 10:46	0	0
106	6/13/2016 10:47	0	0

107	6/13/2016 10:48	0	0
108	6/13/2016 10:49	0	0
109	6/13/2016 10:50	0	0
110	6/13/2016 10:51	0	0
111	6/13/2016 10:52	0	0
112	6/13/2016 10:53	0	0
113	6/13/2016 10:54	0	0
114	6/13/2016 10:55	0	0
115	6/13/2016 10:56	0	0
116	6/13/2016 10:57	0	0
117	6/13/2016 10:58	0	0
118	6/13/2016 10:59	0	0
119	6/13/2016 11:00	0	0
120	6/13/2016 11:01	0	0
121	6/13/2016 11:02	0	0
122	6/13/2016 11:03	0	0
123	6/13/2016 11:04	0	0
124	6/13/2016 11:05	0	0
125	6/13/2016 11:06	0	0
126	6/13/2016 11:07	0	0
127	6/13/2016 11:08	0	0
128	6/13/2016 11:09	0	0
129	6/13/2016 11:10	0	0
130	6/13/2016 11:11	0	0
131	6/13/2016 11:12	0	0
132	6/13/2016 11:13	0	0
133	6/13/2016 11:14	0	0
134	6/13/2016 11:15	0	0
135	6/13/2016 11:16	0	0
136	6/13/2016 11:17	0	0
137	6/13/2016 11:18	0	0
138	6/13/2016 11:19	0	0
139	6/13/2016 11:20	0	0
140	6/13/2016 11:21	0	0
141	6/13/2016 11:22	0	0
142	6/13/2016 11:23	0	0
143	6/13/2016 11:24	0	0
144	6/13/2016 11:25	0	0
145	6/13/2016 11:26	0	0
146	6/13/2016 11:27	0	0
147	6/13/2016 11:28	0	0
148	6/13/2016 11:29	0	0
149	6/13/2016 11:30	0	0
150	6/13/2016 11:31	0	0
151	6/13/2016 11:32	0	0.001
152	6/13/2016 11:33	0	0.001
153	6/13/2016 11:34	0	0.003

154	6/13/2016 11:35	0	0.003
155	6/13/2016 11:36	0	0.003
156	6/13/2016 11:37	0	0.004
157	6/13/2016 11:38	0	0.005
158	6/13/2016 11:39	0.001	0.006
159	6/13/2016 11:40	0.001	0.006
160	6/13/2016 11:41	0.001	0.006
161	6/13/2016 11:42	0.001	0.006
162	6/13/2016 11:43	0.001	0.006
163	6/13/2016 11:44	0.001	0.006
164	6/13/2016 11:45	0.001	0.006
165	6/13/2016 11:46	0.001	0.006
166	6/13/2016 11:47	0.001	0.005
167	6/13/2016 11:48	0.001	0.005
168	6/13/2016 11:49	0.001	0.003
169	6/13/2016 11:50	0.001	0.003
170	6/13/2016 11:51	0.001	0.003
171	6/13/2016 11:52	0.001	0.002
172	6/13/2016 11:53	0.001	0.001
173	6/13/2016 11:54	0.001	0
174	6/13/2016 11:55	0.001	0
175	6/13/2016 11:56	0.001	0
176	6/13/2016 11:57	0.001	0
177	6/13/2016 11:58	0.001	0
178	6/13/2016 11:59	0.001	0
179	6/13/2016 12:00	0.001	0
180	6/13/2016 12:01	0.001	0
181	6/13/2016 12:02	0.001	0
182	6/13/2016 12:03	0.001	0
183	6/13/2016 12:04	0.001	0
184	6/13/2016 12:05	0.001	0
185	6/13/2016 12:06	0.001	0
186	6/13/2016 12:07	0.001	0
187	6/13/2016 12:08	0.001	0
188	6/13/2016 12:09	0.001	0
189	6/13/2016 12:10	0.001	0.001
190	6/13/2016 12:11	0.001	0.001
191	6/13/2016 12:12	0.001	0.002
192	6/13/2016 12:13	0.001	0.003
193	6/13/2016 12:14	0.001	0.003
194	6/13/2016 12:15	0.001	0.003
195	6/13/2016 12:16	0.001	0.005
196	6/13/2016 12:17	0.001	0.005
197	6/13/2016 12:18	0.001	0.005
198	6/13/2016 12:19	0.001	0.005
199	6/13/2016 12:20	0.001	0.005
200	6/13/2016 12:21	0.001	0.008

201	6/13/2016 12:22	0.001	0.008
202	6/13/2016 12:23	0.001	0.007
203	6/13/2016 12:24	0.001	0.007
204	6/13/2016 12:25	0.001	0.008
205	6/13/2016 12:26	0.001	0.008
206	6/13/2016 12:27	0.001	0.007
207	6/13/2016 12:28	0.001	0.006
208	6/13/2016 12:29	0.001	0.007
209	6/13/2016 12:30	0.001	0.007
210	6/13/2016 12:31	0.001	0.004
211	6/13/2016 12:32	0.001	0.004
212	6/13/2016 12:33	0.001	0.004
213	6/13/2016 12:34	0.001	0.004
214	6/13/2016 12:35	0.001	0.005
215	6/13/2016 12:36	0.001	0.004
216	6/13/2016 12:37	0.001	0.006
217	6/13/2016 12:38	0.001	0.007
218	6/13/2016 12:39	0.001	0.007
219	6/13/2016 12:40	0.001	0.006
220	6/13/2016 12:41	0.001	0.006
221	6/13/2016 12:42	0.001	0.006
222	6/13/2016 12:43	0.001	0.01
223	6/13/2016 12:44	0.001	0.009
224	6/13/2016 12:45	0.001	0.009
225	6/13/2016 12:46	0.001	0.009
226	6/13/2016 12:47	0.001	0.009
227	6/13/2016 12:48	0.001	0.01
228	6/13/2016 12:49	0.001	0.009
229	6/13/2016 12:50	0.001	0.009
230	6/13/2016 12:51	0.001	0.007
231	6/13/2016 12:52	0.001	0.006
232	6/13/2016 12:53	0.001	0.005
233	6/13/2016 12:54	0.001	0.007
234	6/13/2016 12:55	0.001	0.007
235	6/13/2016 12:56	0.001	0.007
236	6/13/2016 12:57	0.001	0.007
237	6/13/2016 12:58	0.001	0.005
238	6/13/2016 12:59	0.001	0.009
239	6/13/2016 13:00	0.001	0.013
240	6/13/2016 13:01	0.002	0.015
241	6/13/2016 13:02	0.002	0.015
242	6/13/2016 13:03	0.002	0.014
243	6/13/2016 13:04	0.002	0.018
244	6/13/2016 13:05	0.002	0.021
245	6/13/2016 13:06	0.002	0.025
246	6/13/2016 13:07	0.002	0.032

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16/06/13 13:10
****
Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	18
User ID	1

Begin	6/13/2016 13:10
End	6/13/2016 13:33
Sample Period(s)	60
Number of Records	22

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/13/2016 7:19
Peak	0.038
Min	0
Average	0.004

****
Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Min)	(Avg)	(Max)	(Real)
1	6/13/2016 13:11	0	0.009	0.043	0
2	6/13/2016 13:12	0	0.007	0.039	0.038

3	6/13/2016 13:13	0	0.003	0.038	0
4	6/13/2016 13:14	0	0.026	0.106	0.001
5	6/13/2016 13:15	0	0.001	0.017	0.001
6	6/13/2016 13:16	0	0	0.001	0
7	6/13/2016 13:17	0	0.01	0.035	0
8	6/13/2016 13:18	0	0.022	0.052	0
9	6/13/2016 13:19	0	0.016	0.061	0.027
10	6/13/2016 13:20	0	0.004	0.039	0
11	6/13/2016 13:21	0	0	0	0
12	6/13/2016 13:22	0	0	0	0
13	6/13/2016 13:23	0	0	0	0
14	6/13/2016 13:24	0	0	0	0
15	6/13/2016 13:25	0	0.001	0.013	0
16	6/13/2016 13:26	0	0	0.011	0.011
17	6/13/2016 13:27	0	0.006	0.033	0.02
18	6/13/2016 13:28	0	0.001	0.015	0
19	6/13/2016 13:29	0	0	0	0
20	6/13/2016 13:30	0	0	0.005	0
21	6/13/2016 13:31	0	0	0.004	0
22	6/13/2016 13:32	0	0	0	0

Peak	0	0.026	0.106	0.038
Min	0	0	0	0
Average	0	0.005	0.023	0.004

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/13/2016 13:11	0	---
2	6/13/2016 13:12	0	---
3	6/13/2016 13:13	0	---
4	6/13/2016 13:14	0	---
5	6/13/2016 13:15	0	---
6	6/13/2016 13:16	0	---
7	6/13/2016 13:17	0	---
8	6/13/2016 13:18	0	---
9	6/13/2016 13:19	0	---
10	6/13/2016 13:20	0	---
11	6/13/2016 13:21	0	---
12	6/13/2016 13:22	0	---
13	6/13/2016 13:23	0	---
14	6/13/2016 13:24	0	---
15	6/13/2016 13:25	0	0.004
16	6/13/2016 13:26	0	0.005
17	6/13/2016 13:27	0	0.004
18	6/13/2016 13:28	0	0.004

19	6/13/2016 13:29	0	0.004
20	6/13/2016 13:30	0	0.004
21	6/13/2016 13:31	0	0.004
22	6/13/2016 13:32	0	0.004

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16/06/13 14:09
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	15
User ID	1

Begin	6/13/2016 14:09
End	6/13/2016 15:45
Sample Period(s)	60
Number of Records	95

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/13/2016 7:19
Peak	0.305
Min	0.079
Average	0.193

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Datalog

VOC(ppm) VOC(ppm) VOC(ppm) VOC(ppm)

Index	Date/Time	(Min)	(Avg)	(Max)	(Real)
1	6/13/2016 14:10	0	0.061	0.146	0.103
2	6/13/2016 14:11	0.074	0.168	0.251	0.236
3	6/13/2016 14:12	0.179	0.229	0.318	0.197
4	6/13/2016 14:13	0.107	0.231	0.374	0.29
5	6/13/2016 14:14	0.129	0.221	0.298	0.26
6	6/13/2016 14:15	0.143	0.207	0.31	0.182
7	6/13/2016 14:16	0.184	0.214	0.267	0.211
8	6/13/2016 14:17	0.072	0.138	0.226	0.212
9	6/13/2016 14:18	0.063	0.116	0.229	0.079
10	6/13/2016 14:19	0.075	0.113	0.185	0.127
11	6/13/2016 14:20	0.096	0.169	0.251	0.172
12	6/13/2016 14:21	0.149	0.179	0.201	0.176
13	6/13/2016 14:22	0.103	0.164	0.227	0.103
14	6/13/2016 14:23	0.1	0.157	0.226	0.126
15	6/13/2016 14:24	0.105	0.129	0.159	0.14
16	6/13/2016 14:25	0.115	0.147	0.218	0.12
17	6/13/2016 14:26	0.097	0.153	0.217	0.164
18	6/13/2016 14:27	0.117	0.146	0.191	0.169
19	6/13/2016 14:28	0.11	0.14	0.17	0.139
20	6/13/2016 14:29	0.139	0.172	0.232	0.201
21	6/13/2016 14:30	0.117	0.176	0.224	0.191
22	6/13/2016 14:31	0.126	0.166	0.236	0.164
23	6/13/2016 14:32	0.095	0.138	0.203	0.151
24	6/13/2016 14:33	0.126	0.149	0.19	0.126
25	6/13/2016 14:34	0.116	0.179	0.225	0.22
26	6/13/2016 14:35	0.146	0.19	0.238	0.223
27	6/13/2016 14:36	0.166	0.221	0.263	0.176
28	6/13/2016 14:37	0.118	0.154	0.211	0.198
29	6/13/2016 14:38	0.119	0.161	0.246	0.131
30	6/13/2016 14:39	0.116	0.147	0.189	0.163
31	6/13/2016 14:40	0.098	0.17	0.212	0.212
32	6/13/2016 14:41	0.115	0.179	0.239	0.156
33	6/13/2016 14:42	0.148	0.192	0.233	0.148
34	6/13/2016 14:43	0.14	0.176	0.248	0.14
35	6/13/2016 14:44	0.134	0.158	0.207	0.207
36	6/13/2016 14:45	0.146	0.196	0.23	0.205
37	6/13/2016 14:46	0.13	0.168	0.202	0.198
38	6/13/2016 14:47	0.127	0.192	0.251	0.185
39	6/13/2016 14:48	0.16	0.181	0.206	0.192
40	6/13/2016 14:49	0.157	0.18	0.222	0.217
41	6/13/2016 14:50	0.118	0.169	0.216	0.188
42	6/13/2016 14:51	0.139	0.174	0.21	0.172
43	6/13/2016 14:52	0.154	0.176	0.202	0.183
44	6/13/2016 14:53	0.122	0.16	0.209	0.122
45	6/13/2016 14:54	0.121	0.167	0.215	0.206
46	6/13/2016 14:55	0.173	0.201	0.304	0.215

47	6/13/2016 14:56	0.191	0.204	0.223	0.209
48	6/13/2016 14:57	0.13	0.183	0.237	0.145
49	6/13/2016 14:58	0.127	0.154	0.185	0.146
50	6/13/2016 14:59	0.139	0.189	0.247	0.244
51	6/13/2016 15:00	0.185	0.219	0.25	0.226
52	6/13/2016 15:01	0.147	0.197	0.254	0.154
53	6/13/2016 15:02	0.155	0.206	0.305	0.305
54	6/13/2016 15:03	0.176	0.227	0.286	0.223
55	6/13/2016 15:04	0.153	0.215	0.296	0.219
56	6/13/2016 15:05	0.18	0.218	0.286	0.256
57	6/13/2016 15:06	0.212	0.253	0.294	0.245
58	6/13/2016 15:07	0.158	0.227	0.284	0.177
59	6/13/2016 15:08	0.179	0.22	0.254	0.225
60	6/13/2016 15:09	0.181	0.237	0.272	0.229
61	6/13/2016 15:10	0.145	0.211	0.279	0.258
62	6/13/2016 15:11	0.151	0.227	0.296	0.287
63	6/13/2016 15:12	0.171	0.246	0.279	0.222
64	6/13/2016 15:13	0.2	0.243	0.285	0.22
65	6/13/2016 15:14	0.216	0.276	0.301	0.297
66	6/13/2016 15:15	0.196	0.25	0.296	0.248
67	6/13/2016 15:16	0.214	0.264	0.289	0.243
68	6/13/2016 15:17	0.152	0.201	0.239	0.193
69	6/13/2016 15:18	0.192	0.232	0.263	0.231
70	6/13/2016 15:19	0.171	0.212	0.246	0.192
71	6/13/2016 15:20	0.189	0.214	0.253	0.207
72	6/13/2016 15:21	0.169	0.203	0.254	0.171
73	6/13/2016 15:22	0.155	0.17	0.202	0.185
74	6/13/2016 15:23	0.181	0.189	0.198	0.187
75	6/13/2016 15:24	0.145	0.17	0.212	0.191
76	6/13/2016 15:25	0.148	0.186	0.213	0.199
77	6/13/2016 15:26	0.176	0.189	0.21	0.191
78	6/13/2016 15:27	0.158	0.183	0.202	0.162
79	6/13/2016 15:28	0.165	0.194	0.217	0.202
80	6/13/2016 15:29	0.163	0.2	0.245	0.193
81	6/13/2016 15:30	0.148	0.193	0.22	0.148
82	6/13/2016 15:31	0.144	0.175	0.222	0.176
83	6/13/2016 15:32	0.16	0.189	0.217	0.173
84	6/13/2016 15:33	0.175	0.207	0.234	0.195
85	6/13/2016 15:34	0.148	0.182	0.226	0.226
86	6/13/2016 15:35	0.162	0.202	0.245	0.214
87	6/13/2016 15:36	0.188	0.211	0.233	0.221
88	6/13/2016 15:37	0.196	0.216	0.231	0.213
89	6/13/2016 15:38	0.213	0.226	0.252	0.238
90	6/13/2016 15:39	0.196	0.225	0.276	0.219
91	6/13/2016 15:40	0.137	0.177	0.219	0.155
92	6/13/2016 15:41	0.161	0.187	0.212	0.198
93	6/13/2016 15:42	0.161	0.204	0.226	0.161

94	6/13/2016 15:43	0.162	0.192	0.221	0.181
95	6/13/2016 15:44	0.176	0.196	0.232	0.232

Peak	0.216	0.276	0.374	0.305
Min	0	0.061	0.146	0.079
Average	0.146	0.189	0.238	0.193

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/13/2016 14:10	0	---
2	6/13/2016 14:11	0.001	---
3	6/13/2016 14:12	0.001	---
4	6/13/2016 14:13	0.002	---
5	6/13/2016 14:14	0.002	---
6	6/13/2016 14:15	0.003	---
7	6/13/2016 14:16	0.003	---
8	6/13/2016 14:17	0.004	---
9	6/13/2016 14:18	0.004	---
10	6/13/2016 14:19	0.004	---
11	6/13/2016 14:20	0.004	---
12	6/13/2016 14:21	0.005	---
13	6/13/2016 14:22	0.005	---
14	6/13/2016 14:23	0.005	---
15	6/13/2016 14:24	0.005	0.174
16	6/13/2016 14:25	0.006	0.175
17	6/13/2016 14:26	0.006	0.171
18	6/13/2016 14:27	0.006	0.169
19	6/13/2016 14:28	0.007	0.159
20	6/13/2016 14:29	0.007	0.155
21	6/13/2016 14:30	0.007	0.155
22	6/13/2016 14:31	0.008	0.152
23	6/13/2016 14:32	0.008	0.148
24	6/13/2016 14:33	0.008	0.151
25	6/13/2016 14:34	0.009	0.157
26	6/13/2016 14:35	0.009	0.161
27	6/13/2016 14:36	0.01	0.161
28	6/13/2016 14:37	0.01	0.167
29	6/13/2016 14:38	0.01	0.168
30	6/13/2016 14:39	0.011	0.169
31	6/13/2016 14:40	0.011	0.175
32	6/13/2016 14:41	0.011	0.175
33	6/13/2016 14:42	0.012	0.173
34	6/13/2016 14:43	0.012	0.173
35	6/13/2016 14:44	0.013	0.174
36	6/13/2016 14:45	0.013	0.175
37	6/13/2016 14:46	0.013	0.177

38	6/13/2016 14:47	0.014	0.179
39	6/13/2016 14:48	0.014	0.184
40	6/13/2016 14:49	0.015	0.183
41	6/13/2016 14:50	0.015	0.181
42	6/13/2016 14:51	0.015	0.181
43	6/13/2016 14:52	0.016	0.18
44	6/13/2016 14:53	0.016	0.179
45	6/13/2016 14:54	0.016	0.182
46	6/13/2016 14:55	0.017	0.182
47	6/13/2016 14:56	0.017	0.186
48	6/13/2016 14:57	0.018	0.186
49	6/13/2016 14:58	0.018	0.186
50	6/13/2016 14:59	0.018	0.188
51	6/13/2016 15:00	0.019	0.19
52	6/13/2016 15:01	0.019	0.187
53	6/13/2016 15:02	0.02	0.195
54	6/13/2016 15:03	0.02	0.197
55	6/13/2016 15:04	0.021	0.197
56	6/13/2016 15:05	0.021	0.202
57	6/13/2016 15:06	0.022	0.207
58	6/13/2016 15:07	0.022	0.206
59	6/13/2016 15:08	0.023	0.213
60	6/13/2016 15:09	0.023	0.215
61	6/13/2016 15:10	0.024	0.217
62	6/13/2016 15:11	0.024	0.223
63	6/13/2016 15:12	0.025	0.228
64	6/13/2016 15:13	0.025	0.233
65	6/13/2016 15:14	0.026	0.236
66	6/13/2016 15:15	0.026	0.238
67	6/13/2016 15:16	0.027	0.244
68	6/13/2016 15:17	0.027	0.236
69	6/13/2016 15:18	0.028	0.237
70	6/13/2016 15:19	0.028	0.235
71	6/13/2016 15:20	0.029	0.232
72	6/13/2016 15:21	0.029	0.227
73	6/13/2016 15:22	0.029	0.227
74	6/13/2016 15:23	0.03	0.225
75	6/13/2016 15:24	0.03	0.222
76	6/13/2016 15:25	0.03	0.218
77	6/13/2016 15:26	0.031	0.212
78	6/13/2016 15:27	0.031	0.208
79	6/13/2016 15:28	0.032	0.207
80	6/13/2016 15:29	0.032	0.2
81	6/13/2016 15:30	0.032	0.193
82	6/13/2016 15:31	0.033	0.189
83	6/13/2016 15:32	0.033	0.187
84	6/13/2016 15:33	0.033	0.185

85	6/13/2016 15:34	0.034	0.187
86	6/13/2016 15:35	0.034	0.188
87	6/13/2016 15:36	0.035	0.191
88	6/13/2016 15:37	0.035	0.193
89	6/13/2016 15:38	0.036	0.196
90	6/13/2016 15:39	0.036	0.198
91	6/13/2016 15:40	0.037	0.195
92	6/13/2016 15:41	0.037	0.196
93	6/13/2016 15:42	0.037	0.195
94	6/13/2016 15:43	0.038	0.194
95	6/13/2016 15:44	0.038	0.197

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16/06/14 07:27
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	15
User ID	1

Begin	6/14/2016 7:27
End	6/14/2016 7:27
Sample Period(s)	60
Number of Records	0

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene

Calibration Time	6/14/2016 7:26

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Datalog

0 record.

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16/06/14 07:27
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A
Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User
Site ID	16
User ID	1
Begin	6/14/2016 7:27
End	6/14/2016 7:28
Sample Period(s)	60
Number of Records	0
Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/14/2016 7:26

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Datalog

0 record.

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16/06/14 08:12
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A
Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User
Site ID	15
User ID	1
Begin	6/14/2016 8:12
End	6/14/2016 10:03
Sample Period(s)	60
Number of Records	110
Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/14/2016 7:26
Peak	0.096
Min	0
Average	0.038

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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Min)	(Avg)	(Max)	(Real)
1	6/14/2016 8:13	0	0.004	0.025	0.021
2	6/14/2016 8:14	0.008	0.04	0.081	0.015
3	6/14/2016 8:15	0	0.022	0.075	0
4	6/14/2016 8:16	0	0.021	0.047	0.041
5	6/14/2016 8:17	0.006	0.036	0.065	0.038

6	6/14/2016 8:18	0.026	0.049	0.074	0.056
7	6/14/2016 8:19	0.041	0.062	0.096	0.094
8	6/14/2016 8:20	0.075	0.095	0.122	0.082
9	6/14/2016 8:21	0.045	0.064	0.084	0.063
10	6/14/2016 8:22	0.058	0.074	0.089	0.077
11	6/14/2016 8:23	0.017	0.042	0.085	0.048
12	6/14/2016 8:24	0.023	0.063	0.098	0.025
13	6/14/2016 8:25	0.028	0.069	0.099	0.052
14	6/14/2016 8:26	0.002	0.02	0.058	0.054
15	6/14/2016 8:27	0.04	0.065	0.097	0.096
16	6/14/2016 8:28	0.008	0.047	0.09	0.067
17	6/14/2016 8:29	0.039	0.069	0.098	0.057
18	6/14/2016 8:30	0.016	0.065	0.106	0.03
19	6/14/2016 8:31	0.026	0.053	0.093	0.074
20	6/14/2016 8:32	0.005	0.039	0.083	0.015
21	6/14/2016 8:33	0	0.005	0.021	0.02
22	6/14/2016 8:34	0	0.003	0.019	0.003
23	6/14/2016 8:35	0	0	0.003	0
24	6/14/2016 8:36	0	0.022	0.046	0.043
25	6/14/2016 8:37	0.019	0.041	0.079	0.035
26	6/14/2016 8:38	0.008	0.031	0.058	0.037
27	6/14/2016 8:39	0.002	0.034	0.059	0.006
28	6/14/2016 8:40	0.001	0.022	0.044	0.039
29	6/14/2016 8:41	0.015	0.048	0.073	0.06
30	6/14/2016 8:42	0.033	0.065	0.093	0.09
31	6/14/2016 8:43	0.026	0.047	0.093	0.036
32	6/14/2016 8:44	0.025	0.049	0.081	0.07
33	6/14/2016 8:45	0.014	0.036	0.067	0.049
34	6/14/2016 8:46	0.017	0.047	0.091	0.062
35	6/14/2016 8:47	0.015	0.051	0.077	0.015
36	6/14/2016 8:48	0.008	0.027	0.056	0.04
37	6/14/2016 8:49	0.006	0.037	0.082	0.015
38	6/14/2016 8:50	0.005	0.025	0.066	0.014
39	6/14/2016 8:51	0.002	0.034	0.06	0.05
40	6/14/2016 8:52	0.025	0.045	0.071	0.054
41	6/14/2016 8:53	0.018	0.04	0.068	0.027
42	6/14/2016 8:54	0.023	0.047	0.077	0.058
43	6/14/2016 8:55	0.021	0.059	0.086	0.043
44	6/14/2016 8:56	0.019	0.04	0.05	0.05
45	6/14/2016 8:57	0.049	0.071	0.091	0.049
46	6/14/2016 8:58	0.003	0.047	0.085	0.064
47	6/14/2016 8:59	0.023	0.05	0.069	0.065
48	6/14/2016 9:00	0.052	0.071	0.094	0.063
49	6/14/2016 9:01	0.039	0.068	0.11	0.057
50	6/14/2016 9:02	0.021	0.049	0.068	0.021
51	6/14/2016 9:03	0.013	0.05	0.075	0.07
52	6/14/2016 9:04	0.044	0.058	0.08	0.059

53	6/14/2016 9:05	0.032	0.06	0.084	0.082
54	6/14/2016 9:06	0.019	0.043	0.077	0.034
55	6/14/2016 9:07	0.034	0.046	0.058	0.058
56	6/14/2016 9:08	0.009	0.049	0.079	0.063
57	6/14/2016 9:09	0.027	0.054	0.078	0.054
58	6/14/2016 9:10	0.032	0.047	0.068	0.034
59	6/14/2016 9:11	0.033	0.047	0.06	0.043
60	6/14/2016 9:12	0.036	0.049	0.06	0.036
61	6/14/2016 9:13	0.037	0.058	0.075	0.055
62	6/14/2016 9:14	0.023	0.054	0.084	0.032
63	6/14/2016 9:15	0.029	0.05	0.072	0.071
64	6/14/2016 9:16	0.066	0.079	0.095	0.069
65	6/14/2016 9:17	0.053	0.073	0.089	0.053
66	6/14/2016 9:18	0.013	0.029	0.05	0.013
67	6/14/2016 9:19	0.013	0.034	0.05	0.05
68	6/14/2016 9:20	0	0.031	0.063	0.005
69	6/14/2016 9:21	0	0.018	0.041	0.033
70	6/14/2016 9:22	0.014	0.043	0.069	0.014
71	6/14/2016 9:23	0.015	0.035	0.056	0.056
72	6/14/2016 9:24	0.004	0.03	0.071	0.013
73	6/14/2016 9:25	0.006	0.028	0.06	0.044
74	6/14/2016 9:26	0.011	0.031	0.06	0.037
75	6/14/2016 9:27	0.005	0.024	0.062	0.015
76	6/14/2016 9:28	0	0.014	0.036	0.024
77	6/14/2016 9:29	0	0.015	0.039	0.035
78	6/14/2016 9:30	0	0.003	0.031	0.007
79	6/14/2016 9:31	0.011	0.03	0.075	0.075
80	6/14/2016 9:32	0.027	0.048	0.072	0.064
81	6/14/2016 9:33	0.024	0.05	0.075	0.05
82	6/14/2016 9:34	0	0.03	0.071	0
83	6/14/2016 9:35	0	0.002	0.014	0
84	6/14/2016 9:36	0	0.006	0.03	0
85	6/14/2016 9:37	0	0.004	0.021	0.006
86	6/14/2016 9:38	0	0.018	0.05	0
87	6/14/2016 9:39	0	0	0.003	0
88	6/14/2016 9:40	0	0.013	0.042	0.02
89	6/14/2016 9:41	0.011	0.021	0.048	0.032
90	6/14/2016 9:42	0	0.011	0.042	0.042
91	6/14/2016 9:43	0.001	0.014	0.039	0.013
92	6/14/2016 9:44	0	0.014	0.035	0.013
93	6/14/2016 9:45	0.009	0.025	0.055	0.035
94	6/14/2016 9:46	0.024	0.037	0.067	0.035
95	6/14/2016 9:47	0.019	0.044	0.087	0.029
96	6/14/2016 9:48	0.012	0.038	0.082	0.08
97	6/14/2016 9:49	0.014	0.038	0.089	0.014
98	6/14/2016 9:50	0.002	0.021	0.035	0.026
99	6/14/2016 9:51	0	0.011	0.03	0.021

100	6/14/2016 9:52	0	0.014	0.03	0.019
101	6/14/2016 9:53	0.001	0.02	0.048	0.048
102	6/14/2016 9:54	0.001	0.017	0.05	0.004
103	6/14/2016 9:55	0	0.006	0.025	0.006
104	6/14/2016 9:56	0.006	0.02	0.034	0.023
105	6/14/2016 9:57	0.007	0.018	0.031	0.022
106	6/14/2016 9:58	0.003	0.019	0.054	0.023
107	6/14/2016 9:59	0.013	0.033	0.075	0.037
108	6/14/2016 10:00	0.016	0.03	0.06	0.035
109	6/14/2016 10:01	0.001	0.016	0.032	0.024
110	6/14/2016 10:02	0.008	0.021	0.039	0.025

Peak	0.075	0.095	0.122	0.096
Min	0	0	0.003	0
Average	0.016	0.037	0.064	0.038

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/14/2016 8:13	0	---
2	6/14/2016 8:14	0	---
3	6/14/2016 8:15	0	---
4	6/14/2016 8:16	0	---
5	6/14/2016 8:17	0	---
6	6/14/2016 8:18	0	---
7	6/14/2016 8:19	0.001	---
8	6/14/2016 8:20	0.001	---
9	6/14/2016 8:21	0.001	---
10	6/14/2016 8:22	0.001	---
11	6/14/2016 8:23	0.001	---
12	6/14/2016 8:24	0.001	---
13	6/14/2016 8:25	0.001	---
14	6/14/2016 8:26	0.001	---
15	6/14/2016 8:27	0.002	0.051
16	6/14/2016 8:28	0.002	0.054
17	6/14/2016 8:29	0.002	0.057
18	6/14/2016 8:30	0.002	0.059
19	6/14/2016 8:31	0.002	0.061
20	6/14/2016 8:32	0.002	0.059
21	6/14/2016 8:33	0.002	0.057
22	6/14/2016 8:34	0.002	0.051
23	6/14/2016 8:35	0.002	0.045
24	6/14/2016 8:36	0.002	0.044
25	6/14/2016 8:37	0.002	0.041
26	6/14/2016 8:38	0.002	0.041

27	6/14/2016 8:39	0.002	0.039
28	6/14/2016 8:40	0.002	0.038
29	6/14/2016 8:41	0.003	0.039
30	6/14/2016 8:42	0.003	0.038
31	6/14/2016 8:43	0.003	0.036
32	6/14/2016 8:44	0.003	0.037
33	6/14/2016 8:45	0.003	0.038
34	6/14/2016 8:46	0.003	0.038
35	6/14/2016 8:47	0.003	0.038
36	6/14/2016 8:48	0.003	0.039
37	6/14/2016 8:49	0.003	0.04
38	6/14/2016 8:50	0.003	0.041
39	6/14/2016 8:51	0.004	0.041
40	6/14/2016 8:52	0.004	0.042
41	6/14/2016 8:53	0.004	0.042
42	6/14/2016 8:54	0.004	0.045
43	6/14/2016 8:55	0.004	0.046
44	6/14/2016 8:56	0.004	0.045
45	6/14/2016 8:57	0.004	0.042
46	6/14/2016 8:58	0.004	0.044
47	6/14/2016 8:59	0.004	0.044
48	6/14/2016 9:00	0.005	0.045
49	6/14/2016 9:01	0.005	0.044
50	6/14/2016 9:02	0.005	0.045
51	6/14/2016 9:03	0.005	0.047
52	6/14/2016 9:04	0.005	0.05
53	6/14/2016 9:05	0.005	0.054
54	6/14/2016 9:06	0.005	0.053
55	6/14/2016 9:07	0.005	0.053
56	6/14/2016 9:08	0.005	0.056
57	6/14/2016 9:09	0.006	0.055
58	6/14/2016 9:10	0.006	0.055
59	6/14/2016 9:11	0.006	0.054
60	6/14/2016 9:12	0.006	0.054
61	6/14/2016 9:13	0.006	0.053
62	6/14/2016 9:14	0.006	0.051
63	6/14/2016 9:15	0.006	0.051
64	6/14/2016 9:16	0.006	0.052
65	6/14/2016 9:17	0.006	0.054
66	6/14/2016 9:18	0.006	0.05
67	6/14/2016 9:19	0.006	0.05
68	6/14/2016 9:20	0.007	0.045
69	6/14/2016 9:21	0.007	0.045
70	6/14/2016 9:22	0.007	0.042
71	6/14/2016 9:23	0.007	0.041
72	6/14/2016 9:24	0.007	0.038
73	6/14/2016 9:25	0.007	0.039

74	6/14/2016 9:26	0.007	0.039
75	6/14/2016 9:27	0.007	0.037
76	6/14/2016 9:28	0.007	0.035
77	6/14/2016 9:29	0.007	0.035
78	6/14/2016 9:30	0.007	0.031
79	6/14/2016 9:31	0.007	0.032
80	6/14/2016 9:32	0.007	0.032
81	6/14/2016 9:33	0.007	0.035
82	6/14/2016 9:34	0.007	0.031
83	6/14/2016 9:35	0.007	0.031
84	6/14/2016 9:36	0.007	0.029
85	6/14/2016 9:37	0.007	0.028
86	6/14/2016 9:38	0.007	0.025
87	6/14/2016 9:39	0.007	0.024
88	6/14/2016 9:40	0.008	0.022
89	6/14/2016 9:41	0.008	0.022
90	6/14/2016 9:42	0.008	0.024
91	6/14/2016 9:43	0.008	0.023
92	6/14/2016 9:44	0.008	0.021
93	6/14/2016 9:45	0.008	0.023
94	6/14/2016 9:46	0.008	0.021
95	6/14/2016 9:47	0.008	0.018
96	6/14/2016 9:48	0.008	0.02
97	6/14/2016 9:49	0.008	0.021
98	6/14/2016 9:50	0.008	0.023
99	6/14/2016 9:51	0.008	0.024
100	6/14/2016 9:52	0.008	0.025
101	6/14/2016 9:53	0.008	0.028
102	6/14/2016 9:54	0.008	0.029
103	6/14/2016 9:55	0.008	0.028
104	6/14/2016 9:56	0.008	0.027
105	6/14/2016 9:57	0.008	0.026
106	6/14/2016 9:58	0.009	0.027
107	6/14/2016 9:59	0.009	0.028
108	6/14/2016 10:00	0.009	0.028
109	6/14/2016 10:01	0.009	0.027
110	6/14/2016 10:02	0.009	0.027

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16/06/14 10:21
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Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-905808
Unit Firmware Ver V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	16
User ID	1

Begin	6/14/2016 10:21
End	6/14/2016 10:42
Sample Period(s)	60
Number of Records	21

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/14/2016 7:26
Peak	0.223
Min	0
Average	0.092

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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Min)	(Avg)	(Max)	(Real)
1	6/14/2016 10:22	0	0	0	0
2	6/14/2016 10:23	0	0	0	0
3	6/14/2016 10:24	0	0.002	0.016	0.01
4	6/14/2016 10:25	0	0.013	0.044	0.026
5	6/14/2016 10:26	0	0.04	0.085	0.081
6	6/14/2016 10:27	0.005	0.041	0.078	0.058
7	6/14/2016 10:28	0	0.022	0.096	0.009
8	6/14/2016 10:29	0	0.009	0.068	0.014
9	6/14/2016 10:30	0	0.028	0.074	0.074
10	6/14/2016 10:31	0.077	0.1	0.129	0.117
11	6/14/2016 10:32	0.096	0.146	0.207	0.146
12	6/14/2016 10:33	0.117	0.162	0.232	0.187
13	6/14/2016 10:34	0.131	0.17	0.232	0.198

14	6/14/2016 10:35	0.118	0.144	0.188	0.145
15	6/14/2016 10:36	0.12	0.168	0.216	0.139
16	6/14/2016 10:37	0.013	0.059	0.132	0.027
17	6/14/2016 10:38	0.028	0.089	0.148	0.115
18	6/14/2016 10:39	0.06	0.132	0.211	0.165
19	6/14/2016 10:40	0.144	0.177	0.225	0.223
20	6/14/2016 10:41	0.089	0.192	0.264	0.1
21	6/14/2016 10:42	0.086	0.126	0.177	0.089

Peak	0.144	0.192	0.264	0.223
Min	0	0	0	0
Average	0.052	0.087	0.134	0.092

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/14/2016 10:22	0	---
2	6/14/2016 10:23	0	---
3	6/14/2016 10:24	0	---
4	6/14/2016 10:25	0	---
5	6/14/2016 10:26	0	---
6	6/14/2016 10:27	0	---
7	6/14/2016 10:28	0	---
8	6/14/2016 10:29	0	---
9	6/14/2016 10:30	0.001	---
10	6/14/2016 10:31	0.001	---
11	6/14/2016 10:32	0.001	---
12	6/14/2016 10:33	0.002	---
13	6/14/2016 10:34	0.002	---
14	6/14/2016 10:35	0.002	---
15	6/14/2016 10:36	0.003	0.08
16	6/14/2016 10:37	0.003	0.082
17	6/14/2016 10:38	0.003	0.09
18	6/14/2016 10:39	0.003	0.1
19	6/14/2016 10:40	0.004	0.113
20	6/14/2016 10:41	0.004	0.114
21	6/14/2016 10:42	0.004	0.117

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16/06/14 11:32

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Summary

Unit Name MiniRAE 3000(PGM-7320)

Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	17
User ID	1

Begin	6/14/2016 11:32
End	6/14/2016 13:38
Sample Period(s)	60
Number of Records	126

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/14/2016 7:26
Peak	0.181
Min	0
Average	0.084

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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Min)	(Avg)	(Max)	(Real)
1	6/14/2016 11:33	0	0.001	0.015	0
2	6/14/2016 11:34	0	0	0	0
3	6/14/2016 11:35	0	0	0	0
4	6/14/2016 11:36	0	0.001	0.038	0.038
5	6/14/2016 11:37	0	0.001	0.03	0
6	6/14/2016 11:38	0	0	0	0
7	6/14/2016 11:39	0	0	0	0
8	6/14/2016 11:40	0	0	0	0
9	6/14/2016 11:41	0	0	0.009	0
10	6/14/2016 11:42	0	0	0	0
11	6/14/2016 11:43	0	0.001	0.014	0

12	6/14/2016 11:44	0	0.002	0.014	0
13	6/14/2016 11:45	0	0	0.005	0.005
14	6/14/2016 11:46	0	0.005	0.039	0.002
15	6/14/2016 11:47	0	0	0.006	0
16	6/14/2016 11:48	0	0.002	0.014	0.001
17	6/14/2016 11:49	0	0	0.003	0
18	6/14/2016 11:50	0	0	0.004	0
19	6/14/2016 11:51	0	0.004	0.03	0.001
20	6/14/2016 11:52	0	0	0.004	0
21	6/14/2016 11:53	0	0.001	0.015	0.011
22	6/14/2016 11:54	0	0.008	0.029	0
23	6/14/2016 11:55	0	0.003	0.017	0.017
24	6/14/2016 11:56	0	0.007	0.044	0
25	6/14/2016 11:57	0	0.003	0.012	0.012
26	6/14/2016 11:58	0.005	0.016	0.032	0.023
27	6/14/2016 11:59	0.001	0.01	0.024	0.024
28	6/14/2016 12:00	0.005	0.019	0.046	0.032
29	6/14/2016 12:01	0.011	0.023	0.037	0.023
30	6/14/2016 12:02	0.007	0.024	0.054	0.035
31	6/14/2016 12:03	0.018	0.028	0.04	0.022
32	6/14/2016 12:04	0.022	0.029	0.044	0.043
33	6/14/2016 12:05	0.028	0.037	0.062	0.043
34	6/14/2016 12:06	0.037	0.046	0.063	0.046
35	6/14/2016 12:07	0.037	0.05	0.065	0.054
36	6/14/2016 12:08	0.028	0.041	0.06	0.037
37	6/14/2016 12:09	0.029	0.039	0.05	0.047
38	6/14/2016 12:10	0.043	0.055	0.074	0.05
39	6/14/2016 12:11	0.045	0.057	0.071	0.045
40	6/14/2016 12:12	0.03	0.055	0.08	0.053
41	6/14/2016 12:13	0.043	0.065	0.088	0.067
42	6/14/2016 12:14	0.069	0.084	0.097	0.08
43	6/14/2016 12:15	0.063	0.075	0.092	0.076
44	6/14/2016 12:16	0.071	0.078	0.092	0.089
45	6/14/2016 12:17	0.07	0.086	0.11	0.07
46	6/14/2016 12:18	0.062	0.076	0.102	0.102
47	6/14/2016 12:19	0.069	0.093	0.121	0.112
48	6/14/2016 12:20	0.095	0.112	0.131	0.109
49	6/14/2016 12:21	0.078	0.093	0.109	0.094
50	6/14/2016 12:22	0.082	0.099	0.119	0.09
51	6/14/2016 12:23	0.086	0.106	0.129	0.099
52	6/14/2016 12:24	0.076	0.095	0.119	0.119
53	6/14/2016 12:25	0.09	0.103	0.118	0.098
54	6/14/2016 12:26	0.082	0.096	0.121	0.093
55	6/14/2016 12:27	0.079	0.088	0.099	0.098
56	6/14/2016 12:28	0.078	0.099	0.113	0.078
57	6/14/2016 12:29	0.067	0.082	0.097	0.092
58	6/14/2016 12:30	0.081	0.092	0.115	0.082

59	6/14/2016 12:31	0.082	0.105	0.143	0.128
60	6/14/2016 12:32	0.096	0.109	0.127	0.103
61	6/14/2016 12:33	0.094	0.1	0.109	0.097
62	6/14/2016 12:34	0.092	0.105	0.127	0.109
63	6/14/2016 12:35	0.098	0.103	0.113	0.108
64	6/14/2016 12:36	0.097	0.106	0.117	0.117
65	6/14/2016 12:37	0.102	0.113	0.133	0.12
66	6/14/2016 12:38	0.099	0.114	0.131	0.103
67	6/14/2016 12:39	0.076	0.088	0.104	0.084
68	6/14/2016 12:40	0.08	0.097	0.116	0.098
69	6/14/2016 12:41	0.091	0.102	0.121	0.107
70	6/14/2016 12:42	0.083	0.093	0.113	0.09
71	6/14/2016 12:43	0.081	0.089	0.101	0.094
72	6/14/2016 12:44	0.093	0.102	0.112	0.105
73	6/14/2016 12:45	0.084	0.104	0.117	0.084
74	6/14/2016 12:46	0.077	0.086	0.098	0.098
75	6/14/2016 12:47	0.086	0.108	0.133	0.089
76	6/14/2016 12:48	0.09	0.109	0.136	0.093
77	6/14/2016 12:49	0.09	0.099	0.108	0.093
78	6/14/2016 12:50	0.094	0.106	0.13	0.107
79	6/14/2016 12:51	0.1	0.106	0.118	0.104
80	6/14/2016 12:52	0.097	0.11	0.135	0.097
81	6/14/2016 12:53	0.098	0.113	0.127	0.127
82	6/14/2016 12:54	0.106	0.128	0.153	0.124
83	6/14/2016 12:55	0.102	0.11	0.12	0.107
84	6/14/2016 12:56	0.105	0.115	0.13	0.115
85	6/14/2016 12:57	0.113	0.12	0.134	0.128
86	6/14/2016 12:58	0.107	0.12	0.145	0.109
87	6/14/2016 12:59	0.106	0.118	0.132	0.126
88	6/14/2016 13:00	0.084	0.1	0.124	0.104
89	6/14/2016 13:01	0.102	0.11	0.124	0.106
90	6/14/2016 13:02	0.105	0.111	0.119	0.108
91	6/14/2016 13:03	0.091	0.114	0.159	0.112
92	6/14/2016 13:04	0.115	0.126	0.145	0.141
93	6/14/2016 13:05	0.139	0.155	0.186	0.157
94	6/14/2016 13:06	0.107	0.136	0.171	0.107
95	6/14/2016 13:07	0.102	0.131	0.174	0.14
96	6/14/2016 13:08	0.132	0.142	0.164	0.135
97	6/14/2016 13:09	0.123	0.14	0.155	0.141
98	6/14/2016 13:10	0.128	0.141	0.172	0.137
99	6/14/2016 13:11	0.12	0.134	0.146	0.12
100	6/14/2016 13:12	0.123	0.138	0.151	0.132
101	6/14/2016 13:13	0.123	0.138	0.16	0.14
102	6/14/2016 13:14	0.114	0.143	0.204	0.114
103	6/14/2016 13:15	0.105	0.126	0.15	0.139
104	6/14/2016 13:16	0.125	0.135	0.151	0.125
105	6/14/2016 13:17	0.122	0.13	0.143	0.128

106	6/14/2016 13:18	0.111	0.132	0.154	0.111
107	6/14/2016 13:19	0.101	0.116	0.132	0.129
108	6/14/2016 13:20	0.111	0.117	0.131	0.118
109	6/14/2016 13:21	0.115	0.118	0.125	0.12
110	6/14/2016 13:22	0.115	0.127	0.142	0.142
111	6/14/2016 13:23	0.14	0.15	0.17	0.142
112	6/14/2016 13:24	0.1	0.128	0.152	0.103
113	6/14/2016 13:25	0.108	0.126	0.136	0.126
114	6/14/2016 13:26	0.103	0.12	0.135	0.114
115	6/14/2016 13:27	0.118	0.133	0.15	0.138
116	6/14/2016 13:28	0.112	0.133	0.159	0.141
117	6/14/2016 13:29	0.125	0.136	0.149	0.133
118	6/14/2016 13:30	0.129	0.143	0.167	0.166
119	6/14/2016 13:31	0.112	0.144	0.177	0.151
120	6/14/2016 13:32	0.133	0.143	0.164	0.137
121	6/14/2016 13:33	0.119	0.13	0.141	0.141
122	6/14/2016 13:34	0.118	0.135	0.155	0.127
123	6/14/2016 13:35	0.127	0.142	0.161	0.144
124	6/14/2016 13:36	0.13	0.145	0.163	0.144
125	6/14/2016 13:37	0.145	0.157	0.174	0.152
126	6/14/2016 13:38	0.13	0.155	0.183	0.181

Peak	0.145	0.157	0.204	0.181
Min	0	0	0	0
Average	0.071	0.083	0.101	0.084

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/14/2016 11:33	0	---
2	6/14/2016 11:34	0	---
3	6/14/2016 11:35	0	---
4	6/14/2016 11:36	0	---
5	6/14/2016 11:37	0	---
6	6/14/2016 11:38	0	---
7	6/14/2016 11:39	0	---
8	6/14/2016 11:40	0	---
9	6/14/2016 11:41	0	---
10	6/14/2016 11:42	0	---
11	6/14/2016 11:43	0	---
12	6/14/2016 11:44	0	---
13	6/14/2016 11:45	0	---
14	6/14/2016 11:46	0	---
15	6/14/2016 11:47	0	0.003
16	6/14/2016 11:48	0	0.003

17	6/14/2016 11:49	0	0.003
18	6/14/2016 11:50	0	0.003
19	6/14/2016 11:51	0	0.001
20	6/14/2016 11:52	0	0.001
21	6/14/2016 11:53	0	0.001
22	6/14/2016 11:54	0	0.001
23	6/14/2016 11:55	0	0.002
24	6/14/2016 11:56	0	0.002
25	6/14/2016 11:57	0	0.003
26	6/14/2016 11:58	0	0.005
27	6/14/2016 11:59	0	0.006
28	6/14/2016 12:00	0	0.008
29	6/14/2016 12:01	0	0.01
30	6/14/2016 12:02	0	0.012
31	6/14/2016 12:03	0.001	0.013
32	6/14/2016 12:04	0.001	0.016
33	6/14/2016 12:05	0.001	0.019
34	6/14/2016 12:06	0.001	0.022
35	6/14/2016 12:07	0.001	0.026
36	6/14/2016 12:08	0.001	0.027
37	6/14/2016 12:09	0.001	0.031
38	6/14/2016 12:10	0.001	0.033
39	6/14/2016 12:11	0.001	0.036
40	6/14/2016 12:12	0.001	0.038
41	6/14/2016 12:13	0.002	0.041
42	6/14/2016 12:14	0.002	0.045
43	6/14/2016 12:15	0.002	0.048
44	6/14/2016 12:16	0.002	0.052
45	6/14/2016 12:17	0.002	0.055
46	6/14/2016 12:18	0.002	0.06
47	6/14/2016 12:19	0.003	0.065
48	6/14/2016 12:20	0.003	0.069
49	6/14/2016 12:21	0.003	0.072
50	6/14/2016 12:22	0.003	0.075
51	6/14/2016 12:23	0.003	0.079
52	6/14/2016 12:24	0.004	0.084
53	6/14/2016 12:25	0.004	0.087
54	6/14/2016 12:26	0.004	0.09
55	6/14/2016 12:27	0.004	0.093
56	6/14/2016 12:28	0.004	0.094
57	6/14/2016 12:29	0.005	0.095
58	6/14/2016 12:30	0.005	0.095
59	6/14/2016 12:31	0.005	0.098
60	6/14/2016 12:32	0.005	0.1
61	6/14/2016 12:33	0.006	0.099
62	6/14/2016 12:34	0.006	0.099
63	6/14/2016 12:35	0.006	0.099

64	6/14/2016 12:36	0.006	0.101
65	6/14/2016 12:37	0.006	0.103
66	6/14/2016 12:38	0.007	0.103
67	6/14/2016 12:39	0.007	0.101
68	6/14/2016 12:40	0.007	0.101
69	6/14/2016 12:41	0.007	0.102
70	6/14/2016 12:42	0.007	0.101
71	6/14/2016 12:43	0.008	0.102
72	6/14/2016 12:44	0.008	0.103
73	6/14/2016 12:45	0.008	0.103
74	6/14/2016 12:46	0.008	0.101
75	6/14/2016 12:47	0.008	0.1
76	6/14/2016 12:48	0.009	0.1
77	6/14/2016 12:49	0.009	0.099
78	6/14/2016 12:50	0.009	0.099
79	6/14/2016 12:51	0.009	0.098
80	6/14/2016 12:52	0.009	0.096
81	6/14/2016 12:53	0.01	0.098
82	6/14/2016 12:54	0.01	0.101
83	6/14/2016 12:55	0.01	0.101
84	6/14/2016 12:56	0.01	0.102
85	6/14/2016 12:57	0.011	0.104
86	6/14/2016 12:58	0.011	0.105
87	6/14/2016 12:59	0.011	0.107
88	6/14/2016 13:00	0.011	0.108
89	6/14/2016 13:01	0.012	0.109
90	6/14/2016 13:02	0.012	0.11
91	6/14/2016 13:03	0.012	0.111
92	6/14/2016 13:04	0.012	0.114
93	6/14/2016 13:05	0.013	0.118
94	6/14/2016 13:06	0.013	0.118
95	6/14/2016 13:07	0.013	0.121
96	6/14/2016 13:08	0.014	0.121
97	6/14/2016 13:09	0.014	0.122
98	6/14/2016 13:10	0.014	0.124
99	6/14/2016 13:11	0.014	0.125
100	6/14/2016 13:12	0.015	0.125
101	6/14/2016 13:13	0.015	0.127
102	6/14/2016 13:14	0.015	0.126
103	6/14/2016 13:15	0.015	0.129
104	6/14/2016 13:16	0.016	0.13
105	6/14/2016 13:17	0.016	0.131
106	6/14/2016 13:18	0.016	0.131
107	6/14/2016 13:19	0.016	0.13
108	6/14/2016 13:20	0.017	0.128
109	6/14/2016 13:21	0.017	0.129
110	6/14/2016 13:22	0.017	0.129

111	6/14/2016 13:23	0.018	0.129
112	6/14/2016 13:24	0.018	0.127
113	6/14/2016 13:25	0.018	0.126
114	6/14/2016 13:26	0.018	0.126
115	6/14/2016 13:27	0.019	0.126
116	6/14/2016 13:28	0.019	0.126
117	6/14/2016 13:29	0.019	0.127
118	6/14/2016 13:30	0.019	0.129
119	6/14/2016 13:31	0.02	0.131
120	6/14/2016 13:32	0.02	0.131
121	6/14/2016 13:33	0.02	0.133
122	6/14/2016 13:34	0.021	0.133
123	6/14/2016 13:35	0.021	0.135
124	6/14/2016 13:36	0.021	0.137
125	6/14/2016 13:37	0.022	0.137
126	6/14/2016 13:38	0.022	0.14

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16/06/14 14:14
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Battery Low

Site ID	18
User ID	1

Begin	6/14/2016 14:14
End	6/14/2016 14:23
Sample Period(s)	60
Number of Records	9

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100

Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/14/2016 7:26
Peak	0
Min	0
Average	0

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Datalog

Index	Date/Time	VOC(ppm) (Min)	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)
1	6/14/2016 14:15	0	0	0.001	0
2	6/14/2016 14:16	0	0	0	0
3	6/14/2016 14:17	0	0	0.004	0
4	6/14/2016 14:18	0	0	0	0
5	6/14/2016 14:19	0	0	0	0
6	6/14/2016 14:20	0	0	0	0
7	6/14/2016 14:21	0	0	0.001	0
8	6/14/2016 14:22	0	0	0.002	0
9	6/14/2016 14:23	0	0	0.004	0

Peak	0	0	0.004	0
Min	0	0	0	0
Average	0	0	0.001	0

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/14/2016 14:15	0	---
2	6/14/2016 14:16	0	---
3	6/14/2016 14:17	0	---
4	6/14/2016 14:18	0	---
5	6/14/2016 14:19	0	---
6	6/14/2016 14:20	0	---
7	6/14/2016 14:21	0	---
8	6/14/2016 14:22	0	---
9	6/14/2016 14:23	0	---

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16/06/15 08:39
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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	20
User ID	1

Begin	6/15/2016 8:39
End	6/15/2016 8:57
Sample Period(s)	60
Number of Records	18

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/15/2016 7:55
Peak	0
Min	0
Average	0

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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Min)	(Avg)	(Max)	(Real)
1	6/15/2016 8:40	0	0	0	0
2	6/15/2016 8:41	0	0	0	0
3	6/15/2016 8:42	0	0	0	0
4	6/15/2016 8:43	0	0	0	0
5	6/15/2016 8:44	0	0	0	0
6	6/15/2016 8:45	0	0	0	0

7	6/15/2016 8:46	0	0	0	0
8	6/15/2016 8:47	0	0	0	0
9	6/15/2016 8:48	0	0	0	0
10	6/15/2016 8:49	0	0	0	0
11	6/15/2016 8:50	0	0	0	0
12	6/15/2016 8:51	0	0	0	0
13	6/15/2016 8:52	0	0	0	0
14	6/15/2016 8:53	0	0	0	0
15	6/15/2016 8:54	0	0	0	0
16	6/15/2016 8:55	0	0	0	0
17	6/15/2016 8:56	0	0	0	0
18	6/15/2016 8:57	0	0	0	0

Peak		0	0	0	0
Min		0	0	0	0
Average		0	0	0	0

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/15/2016 8:40	0	---
2	6/15/2016 8:41	0	---
3	6/15/2016 8:42	0	---
4	6/15/2016 8:43	0	---
5	6/15/2016 8:44	0	---
6	6/15/2016 8:45	0	---
7	6/15/2016 8:46	0	---
8	6/15/2016 8:47	0	---
9	6/15/2016 8:48	0	---
10	6/15/2016 8:49	0	---
11	6/15/2016 8:50	0	---
12	6/15/2016 8:51	0	---
13	6/15/2016 8:52	0	---
14	6/15/2016 8:53	0	---
15	6/15/2016 8:54	0	0
16	6/15/2016 8:55	0	0
17	6/15/2016 8:56	0	0
18	6/15/2016 8:57	0	0

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16/06/15 09:26

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Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-905808
Unit Firmware Ver	V1.10A

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	21
User ID	1

Begin	6/15/2016 9:26
End	6/15/2016 10:31
Sample Period(s)	60
Number of Records	64

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/15/2016 7:55
Peak	0.032
Min	0
Average	0.006

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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Min)	(Avg)	(Max)	(Real)
1	6/15/2016 9:27	0	0.001	0.015	0.003
2	6/15/2016 9:28	0	0.002	0.017	0.005
3	6/15/2016 9:29	0	0.001	0.01	0.01
4	6/15/2016 9:30	0.011	0.019	0.04	0.022
5	6/15/2016 9:31	0.011	0.022	0.042	0.016
6	6/15/2016 9:32	0.014	0.018	0.027	0.014
7	6/15/2016 9:33	0	0.005	0.014	0
8	6/15/2016 9:34	0	0.011	0.024	0.009
9	6/15/2016 9:35	0	0.009	0.029	0.006
10	6/15/2016 9:36	0.008	0.015	0.026	0.011

11	6/15/2016 9:37	0	0.002	0.014	0.011
12	6/15/2016 9:38	0	0.009	0.021	0.011
13	6/15/2016 9:39	0	0.007	0.022	0.015
14	6/15/2016 9:40	0	0.006	0.025	0.002
15	6/15/2016 9:41	0	0.001	0.012	0
16	6/15/2016 9:42	0	0	0	0
17	6/15/2016 9:43	0	0.001	0.012	0
18	6/15/2016 9:44	0	0.005	0.019	0.018
19	6/15/2016 9:45	0	0.003	0.019	0
20	6/15/2016 9:46	0	0.002	0.014	0
21	6/15/2016 9:47	0	0.002	0.022	0.015
22	6/15/2016 9:48	0	0.002	0.016	0.016
23	6/15/2016 9:49	0	0.003	0.015	0
24	6/15/2016 9:50	0	0	0.008	0
25	6/15/2016 9:51	0	0.003	0.02	0
26	6/15/2016 9:52	0	0.01	0.029	0
27	6/15/2016 9:53	0	0	0.003	0
28	6/15/2016 9:54	0	0.013	0.023	0.005
29	6/15/2016 9:55	0	0.001	0.01	0
30	6/15/2016 9:56	0	0.001	0.011	0.002
31	6/15/2016 9:57	0	0.002	0.008	0
32	6/15/2016 9:58	0	0.004	0.018	0
33	6/15/2016 9:59	0	0.001	0.012	0
34	6/15/2016 10:00	0	0.002	0.008	0.007
35	6/15/2016 10:01	0	0.002	0.011	0.002
36	6/15/2016 10:02	0	0.003	0.02	0.011
37	6/15/2016 10:03	0	0.007	0.02	0.014
38	6/15/2016 10:04	0	0.005	0.022	0.005
39	6/15/2016 10:05	0	0.004	0.015	0.003
40	6/15/2016 10:06	0	0.001	0.009	0.005
41	6/15/2016 10:07	0	0.001	0.005	0
42	6/15/2016 10:08	0	0.002	0.012	0
43	6/15/2016 10:09	0	0.001	0.008	0.001
44	6/15/2016 10:10	0	0.004	0.015	0.001
45	6/15/2016 10:11	0	0	0.003	0.003
46	6/15/2016 10:12	0.004	0.011	0.021	0.006
47	6/15/2016 10:13	0	0.007	0.016	0.016
48	6/15/2016 10:14	0	0.008	0.015	0.01
49	6/15/2016 10:15	0	0.003	0.012	0
50	6/15/2016 10:16	0	0.002	0.011	0.011
51	6/15/2016 10:17	0.001	0.006	0.017	0.014
52	6/15/2016 10:18	0	0.008	0.021	0
53	6/15/2016 10:19	0	0.006	0.015	0.011
54	6/15/2016 10:20	0	0.009	0.023	0.02
55	6/15/2016 10:21	0	0.008	0.029	0.002
56	6/15/2016 10:22	0.002	0.005	0.017	0.004
57	6/15/2016 10:23	0	0.003	0.009	0.001

58	6/15/2016 10:24	0	0.005	0.023	0.001
59	6/15/2016 10:25	0	0	0.001	0.001
60	6/15/2016 10:26	0.001	0.014	0.032	0.032
61	6/15/2016 10:27	0.003	0.013	0.04	0.012
62	6/15/2016 10:28	0.002	0.016	0.024	0.005
63	6/15/2016 10:29	0	0.008	0.024	0.003
64	6/15/2016 10:30	0.002	0.008	0.02	0.005

Peak	0.014	0.022	0.042	0.032
Min	0	0	0	0
Average	0.001	0.006	0.017	0.006

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TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/15/2016 9:27	0	---
2	6/15/2016 9:28	0	---
3	6/15/2016 9:29	0	---
4	6/15/2016 9:30	0	---
5	6/15/2016 9:31	0	---
6	6/15/2016 9:32	0	---
7	6/15/2016 9:33	0	---
8	6/15/2016 9:34	0	---
9	6/15/2016 9:35	0	---
10	6/15/2016 9:36	0	---
11	6/15/2016 9:37	0	---
12	6/15/2016 9:38	0	---
13	6/15/2016 9:39	0	---
14	6/15/2016 9:40	0	---
15	6/15/2016 9:41	0	0.009
16	6/15/2016 9:42	0	0.009
17	6/15/2016 9:43	0	0.008
18	6/15/2016 9:44	0	0.009
19	6/15/2016 9:45	0	0.008
20	6/15/2016 9:46	0	0.006
21	6/15/2016 9:47	0	0.007
22	6/15/2016 9:48	0	0.008
23	6/15/2016 9:49	0	0.007
24	6/15/2016 9:50	0	0.007
25	6/15/2016 9:51	0	0.006
26	6/15/2016 9:52	0	0.005
27	6/15/2016 9:53	0	0.004
28	6/15/2016 9:54	0	0.004
29	6/15/2016 9:55	0	0.004
30	6/15/2016 9:56	0	0.004

31	6/15/2016 9:57	0	0.004
32	6/15/2016 9:58	0	0.004
33	6/15/2016 9:59	0	0.003
34	6/15/2016 10:00	0	0.003
35	6/15/2016 10:01	0	0.003
36	6/15/2016 10:02	0	0.003
37	6/15/2016 10:03	0	0.003
38	6/15/2016 10:04	0	0.003
39	6/15/2016 10:05	0	0.003
40	6/15/2016 10:06	0	0.004
41	6/15/2016 10:07	0	0.004
42	6/15/2016 10:08	0	0.004
43	6/15/2016 10:09	0	0.003
44	6/15/2016 10:10	0	0.003
45	6/15/2016 10:11	0.001	0.003
46	6/15/2016 10:12	0.001	0.004
47	6/15/2016 10:13	0.001	0.005
48	6/15/2016 10:14	0.001	0.006
49	6/15/2016 10:15	0.001	0.005
50	6/15/2016 10:16	0.001	0.006
51	6/15/2016 10:17	0.001	0.006
52	6/15/2016 10:18	0.001	0.005
53	6/15/2016 10:19	0.001	0.005
54	6/15/2016 10:20	0.001	0.007
55	6/15/2016 10:21	0.001	0.006
56	6/15/2016 10:22	0.001	0.007
57	6/15/2016 10:23	0.001	0.007
58	6/15/2016 10:24	0.001	0.007
59	6/15/2016 10:25	0.001	0.007
60	6/15/2016 10:26	0.001	0.009
61	6/15/2016 10:27	0.001	0.009
62	6/15/2016 10:28	0.001	0.008
63	6/15/2016 10:29	0.001	0.008
64	6/15/2016 10:30	0.001	0.008

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16/06/15 11:02
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Summary

Unit Name MiniRAE 3000(PGM-7320)
Unit SN 592-905808
Unit Firmware Ver V1.10A

Running Mode Search Mode
Measure Type Min; Avg; Max; Real

Datalog Mode	Continuous
Datalog Type	Manual
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	22
User ID	1

Begin	6/15/2016 11:02
End	6/15/2016 16:28
Sample Period(s)	60
Number of Records	91

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	50
High Alarm	100
Over Alarm	15000
STEL Alarm	25
TWA Alarm	10
Measurement Gas	Isobutene
Calibration Time	6/15/2016 7:55
Peak	0.256
Min	0
Average	0.059

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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Min)	(Avg)	(Max)	(Real)
1	6/15/2016 11:03	0	0	0	0
2	6/15/2016 11:04	0	0	0.011	0
3	6/15/2016 11:05	0	0	0	0
4	6/15/2016 11:06	0	0	0	0
5	6/15/2016 11:07	0	0	0	0
6	6/15/2016 11:08	0	0	0	0
7	6/15/2016 11:09	0	0	0.001	0
8	6/15/2016 11:10	0	0	0.003	0
9	6/15/2016 11:11	0	0	0	0
10	6/15/2016 11:12	0	0	0.006	0.005
11	6/15/2016 11:13	0	0.002	0.017	0
12	6/15/2016 11:14	0	0	0.005	0
13	6/15/2016 11:15	0	0.001	0.007	0
14	6/15/2016 11:16	0	0.003	0.012	0
15	6/15/2016 11:17	0	0	0	0
16	6/15/2016 11:18	0	0.002	0.01	0.008

17	6/15/2016 11:19	0	0.001	0.01	0.008
18	6/15/2016 11:20	0	0.005	0.011	0
19	6/15/2016 11:21	0	0	0	0
20	6/15/2016 11:22	0	0	0.008	0.008
21	6/15/2016 11:23	0	0	0.011	0
22	6/15/2016 11:24	0	0	0	0
23	6/15/2016 11:25	0	0	0.003	0
24	6/15/2016 11:26	0	0	0.006	0.003
25	6/15/2016 11:27	0	0.001	0.01	0.006
26	6/15/2016 11:28	0	0.001	0.01	0
27	6/15/2016 11:29	0	0	0	0
28	6/15/2016 11:30	0	0	0.004	0.002
29	6/15/2016 11:31	0.001	0.022	0.037	0.032
30	6/15/2016 11:32	0.007	0.016	0.03	0.013
31	6/15/2016 11:33	0	0.009	0.021	0
32	6/15/2016 11:34	0	0.001	0.013	0
33	6/15/2016 11:35	0	0.002	0.01	0.004
34	6/15/2016 11:36	0	0.005	0.025	0.004
35	6/15/2016 11:37	0	0.001	0.014	0.001
36	6/15/2016 11:38	0	0.002	0.017	0
37	6/15/2016 11:39	0	0	0.005	0.001
38	6/15/2016 11:40	0	0.003	0.011	0.011
39	6/15/2016 11:41	0	0.001	0.012	0
40	6/15/2016 11:42	0	0.008	0.017	0.012
41	6/15/2016 11:43	0.001	0.016	0.029	0.029
42	6/15/2016 11:44	0	0.012	0.028	0
43	6/15/2016 11:45	0	0.017	0.036	0.016
44	6/15/2016 11:46	0.018	0.048	0.075	0.058
45	6/15/2016 11:47	0.029	0.045	0.063	0.037
46	6/15/2016 11:48	0.005	0.017	0.04	0.037
47	6/15/2016 11:49	0.023	0.042	0.055	0.042
48	6/15/2016 11:50	0.023	0.06	0.083	0.07
49	6/15/2016 11:51	0.026	0.045	0.071	0.052
50	6/15/2016 11:52	0.026	0.06	0.084	0.064
51	6/15/2016 11:53	0.032	0.058	0.081	0.033
52	6/15/2016 11:54	0.021	0.041	0.066	0.042
53	6/15/2016 11:55	0.03	0.053	0.087	0.037
54	6/15/2016 11:56	0.031	0.055	0.085	0.085
55	6/15/2016 11:57	0.026	0.055	0.087	0.052
56	6/15/2016 11:58	0.048	0.086	0.117	0.048
57	6/15/2016 11:59	0.037	0.057	0.085	0.065
58	6/15/2016 12:00	0.044	0.073	0.087	0.066
59	6/15/2016 12:01	0.031	0.055	0.096	0.053
60	6/15/2016 12:02	0.039	0.063	0.098	0.047
61	6/15/2016 12:03	0.045	0.073	0.1	0.1
62	6/15/2016 12:04	0.061	0.092	0.119	0.088
63	6/15/2016 12:05	0.046	0.062	0.089	0.076

64	6/15/2016 12:06	0.041	0.054	0.078	0.061
65	6/15/2016 12:07	0.054	0.084	0.111	0.089
66	6/15/2016 12:08	0.05	0.072	0.091	0.085
67	6/15/2016 12:09	0.06	0.082	0.111	0.091
68	6/15/2016 12:10	0.086	0.112	0.141	0.109
69	6/15/2016 12:11	0.079	0.108	0.136	0.082
70	6/15/2016 12:12	0.089	0.12	0.135	0.131
71	6/15/2016 12:13	0.124	0.149	0.162	0.129
72	6/15/2016 12:14	0.09	0.128	0.146	0.141
73	6/15/2016 12:15	0.084	0.138	0.174	0.121
74	6/15/2016 12:16	0.102	0.133	0.159	0.113
75	6/15/2016 12:17	0.123	0.147	0.167	0.167
76	6/15/2016 12:18	0.096	0.141	0.174	0.133
77	6/15/2016 12:19	0.109	0.136	0.157	0.14
78	6/15/2016 12:20	0.082	0.111	0.157	0.106
79	6/15/2016 12:21	0.099	0.126	0.149	0.129
80	6/15/2016 12:22	0.109	0.148	0.173	0.152
81	6/15/2016 12:23	0.117	0.149	0.17	0.139
82	6/15/2016 12:24	0.094	0.131	0.169	0.169
83	6/15/2016 12:25	0.095	0.135	0.179	0.179
84	6/15/2016 12:26	0.177	0.191	0.202	0.194
85	6/15/2016 12:27	0.175	0.209	0.225	0.175
86	6/15/2016 12:28	0.132	0.169	0.2	0.146
87	6/15/2016 12:29	0.154	0.186	0.212	0.205
88	6/15/2016 12:30	0.126	0.164	0.204	0.188
89	6/15/2016 12:31	0.135	0.186	0.225	0.174
90	6/15/2016 12:32	0.174	0.203	0.256	0.256
91	6/15/2016 12:33	0.241	0.259	0.275	0.243

Peak	0.241	0.259	0.275	0.256
Min	0	0	0	0
Average	0.041	0.058	0.075	0.059

****

TWA/STEL

Index	Date/Time	VOC(ppm) (TWA)	VOC(ppm) (STEL)
1	6/15/2016 11:03	0	---
2	6/15/2016 11:04	0	---
3	6/15/2016 11:05	0	---
4	6/15/2016 11:06	0	---
5	6/15/2016 11:07	0	---
6	6/15/2016 11:08	0	---
7	6/15/2016 11:09	0	---
8	6/15/2016 11:10	0	---
9	6/15/2016 11:11	0	---

10	6/15/2016 11:12	0	---
11	6/15/2016 11:13	0	---
12	6/15/2016 11:14	0	---
13	6/15/2016 11:15	0	---
14	6/15/2016 11:16	0	---
15	6/15/2016 11:17	0	0
16	6/15/2016 11:18	0	0.001
17	6/15/2016 11:19	0	0.001
18	6/15/2016 11:20	0	0.001
19	6/15/2016 11:21	0	0.001
20	6/15/2016 11:22	0	0.002
21	6/15/2016 11:23	0	0.002
22	6/15/2016 11:24	0	0.002
23	6/15/2016 11:25	0	0.002
24	6/15/2016 11:26	0	0.002
25	6/15/2016 11:27	0	0.002
26	6/15/2016 11:28	0	0.002
27	6/15/2016 11:29	0	0.002
28	6/15/2016 11:30	0	0.002
29	6/15/2016 11:31	0	0.004
30	6/15/2016 11:32	0	0.005
31	6/15/2016 11:33	0	0.005
32	6/15/2016 11:34	0	0.004
33	6/15/2016 11:35	0	0.005
34	6/15/2016 11:36	0	0.005
35	6/15/2016 11:37	0	0.004
36	6/15/2016 11:38	0	0.004
37	6/15/2016 11:39	0	0.004
38	6/15/2016 11:40	0	0.005
39	6/15/2016 11:41	0	0.005
40	6/15/2016 11:42	0	0.005
41	6/15/2016 11:43	0	0.007
42	6/15/2016 11:44	0	0.007
43	6/15/2016 11:45	0	0.008
44	6/15/2016 11:46	0	0.01
45	6/15/2016 11:47	0.001	0.012
46	6/15/2016 11:48	0.001	0.014
47	6/15/2016 11:49	0.001	0.017
48	6/15/2016 11:50	0.001	0.021
49	6/15/2016 11:51	0.001	0.024
50	6/15/2016 11:52	0.001	0.029
51	6/15/2016 11:53	0.001	0.031
52	6/15/2016 11:54	0.001	0.034
53	6/15/2016 11:55	0.001	0.035
54	6/15/2016 11:56	0.001	0.041
55	6/15/2016 11:57	0.002	0.044
56	6/15/2016 11:58	0.002	0.045

57	6/15/2016 11:59	0.002	0.049
58	6/15/2016 12:00	0.002	0.053
59	6/15/2016 12:01	0.002	0.052
60	6/15/2016 12:02	0.002	0.053
61	6/15/2016 12:03	0.002	0.057
62	6/15/2016 12:04	0.003	0.06
63	6/15/2016 12:05	0.003	0.061
64	6/15/2016 12:06	0.003	0.061
65	6/15/2016 12:07	0.003	0.063
66	6/15/2016 12:08	0.003	0.066
67	6/15/2016 12:09	0.003	0.07
68	6/15/2016 12:10	0.004	0.074
69	6/15/2016 12:11	0.004	0.074
70	6/15/2016 12:12	0.004	0.079
71	6/15/2016 12:13	0.004	0.085
72	6/15/2016 12:14	0.005	0.09
73	6/15/2016 12:15	0.005	0.094
74	6/15/2016 12:16	0.005	0.098
75	6/15/2016 12:17	0.005	0.106
76	6/15/2016 12:18	0.006	0.108
77	6/15/2016 12:19	0.006	0.111
78	6/15/2016 12:20	0.006	0.113
79	6/15/2016 12:21	0.007	0.118
80	6/15/2016 12:22	0.007	0.122
81	6/15/2016 12:23	0.007	0.126
82	6/15/2016 12:24	0.008	0.131
83	6/15/2016 12:25	0.008	0.135
84	6/15/2016 12:26	0.008	0.143
85	6/15/2016 12:27	0.009	0.146
86	6/15/2016 12:28	0.009	0.147
87	6/15/2016 12:29	0.009	0.151
88	6/15/2016 12:30	0.01	0.156
89	6/15/2016 12:31	0.01	0.16
90	6/15/2016 12:32	0.011	0.166
91	6/15/2016 12:33	0.011	0.173

==========
16/06/16 08:19
****
Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-908497
Unit Firmware Ver	V1.10C
Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Auto
Diagnostic Mode	No
Stop Reason	Stop by User
Site ID	RAE00003
User ID	1
Begin	6/16/2016 8:19
End	6/16/2016 9:01
Sample Period(s)	60
Number of Records	41
Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	21.738
High Alarm	43.476
Over Alarm	15000
STEL Alarm	43.476
TWA Alarm	21.738
Measurement Gas	Isobutylene
Calibration Time	6/16/2016 7:31
Peak	0.301
Min	0.153
Average	0.201

****
Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	**Date/Time**	**(Min)**	**(Avg)**	**(Max)**	**(Real)**
1	6/16/2016 8:20	0.117	0.184	0.311	0.301
2	6/16/2016 8:21	0.228	0.251	0.288	0.248
3	6/16/2016 8:22	0.113	0.176	0.249	0.22
4	6/16/2016 8:23	0.131	0.179	0.222	0.204
5	6/16/2016 8:24	0.184	0.212	0.247	0.205
6	6/16/2016 8:25	0.175	0.204	0.238	0.188
7	6/16/2016 8:26	0.145	0.172	0.2	0.16
8	6/16/2016 8:27	0.149	0.178	0.207	0.153
9	6/16/2016 8:28	0.139	0.168	0.208	0.158
10	6/16/2016 8:29	0.156	0.199	0.261	0.185
11	6/16/2016 8:30	0.169	0.195	0.213	0.2
12	6/16/2016 8:31	0.181	0.204	0.225	0.201
13	6/16/2016 8:32	0.173	0.193	0.219	0.212
14	6/16/2016 8:33	0.171	0.2	0.219	0.205
15	6/16/2016 8:34	0.153	0.205	0.23	0.168
16	6/16/2016 8:35	0.17	0.191	0.216	0.215
17	6/16/2016 8:36	0.164	0.188	0.216	0.195
18	6/16/2016 8:37	0.174	0.19	0.205	0.203
19	6/16/2016 8:38	0.193	0.205	0.216	0.215
20	6/16/2016 8:39	0.175	0.193	0.214	0.175
21	6/16/2016 8:40	0.163	0.184	0.22	0.185

22	6/16/2016 8:41	0.145	0.166	0.191	0.185
23	6/16/2016 8:42	0.185	0.196	0.222	0.204
24	6/16/2016 8:43	0.204	0.217	0.25	0.212
25	6/16/2016 8:44	0.187	0.207	0.233	0.191
26	6/16/2016 8:45	0.139	0.169	0.197	0.193
27	6/16/2016 8:46	0.164	0.191	0.211	0.18
28	6/16/2016 8:47	0.176	0.19	0.22	0.206
29	6/16/2016 8:48	0.209	0.234	0.265	0.237
30	6/16/2016 8:49	0.168	0.196	0.246	0.177
31	6/16/2016 8:50	0.18	0.208	0.235	0.201
32	6/16/2016 8:51	0.177	0.197	0.213	0.203
33	6/16/2016 8:52	0.174	0.199	0.225	0.211
34	6/16/2016 8:53	0.179	0.202	0.223	0.203
35	6/16/2016 8:54	0.201	0.218	0.241	0.235
36	6/16/2016 8:55	0.186	0.213	0.247	0.211
37	6/16/2016 8:56	0.177	0.2	0.226	0.18
38	6/16/2016 8:57	0.16	0.181	0.205	0.196
39	6/16/2016 8:58	0.164	0.184	0.199	0.19
40	6/16/2016 8:59	0.186	0.203	0.228	0.222
41	6/16/2016 9:00	0.214	0.231	0.256	0.216

Peak	0.228	0.251	0.311	0.301
Min	0.113	0.166	0.191	0.153
Average	0.171	0.197	0.228	0.201

****

TWA/STEL

		VOC(ppm)	VOC(ppm)
Index	**Date/Time**	**(TWA)**	**(STEL)**
1	6/16/2016 8:20	0.001	---
2	6/16/2016 8:21	0.001	---
3	6/16/2016 8:22	0.002	---
4	6/16/2016 8:23	0.002	---
5	6/16/2016 8:24	0.002	---
6	6/16/2016 8:25	0.003	---
7	6/16/2016 8:26	0.003	---
8	6/16/2016 8:27	0.003	---
9	6/16/2016 8:28	0.004	---
10	6/16/2016 8:29	0.004	---
11	6/16/2016 8:30	0.005	---
12	6/16/2016 8:31	0.005	---
13	6/16/2016 8:32	0.005	---
14	6/16/2016 8:33	0.006	---
15	6/16/2016 8:34	0.006	0.201
16	6/16/2016 8:35	0.007	0.195
17	6/16/2016 8:36	0.007	0.191
18	6/16/2016 8:37	0.008	0.19
19	6/16/2016 8:38	0.008	0.191
20	6/16/2016 8:39	0.008	0.189
21	6/16/2016 8:40	0.009	0.189
22	6/16/2016 8:41	0.009	0.19
23	6/16/2016 8:42	0.01	0.194
24	6/16/2016 8:43	0.01	0.197
25	6/16/2016 8:44	0.01	0.198
26	6/16/2016 8:45	0.011	0.197
27	6/16/2016 8:46	0.011	0.196
28	6/16/2016 8:47	0.012	0.195
29	6/16/2016 8:48	0.012	0.198

30	6/16/2016 8:49	0.012	0.198
31	6/16/2016 8:50	0.013	0.197
32	6/16/2016 8:51	0.013	0.198
33	6/16/2016 8:52	0.014	0.198
34	6/16/2016 8:53	0.014	0.198
35	6/16/2016 8:54	0.015	0.202
36	6/16/2016 8:55	0.015	0.203
37	6/16/2016 8:56	0.015	0.203
38	6/16/2016 8:57	0.016	0.202
39	6/16/2016 8:58	0.016	0.201
40	6/16/2016 8:59	0.017	0.203
41	6/16/2016 9:00	0.017	0.205

==========
16/06/16 10:11
****
Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-908497
Unit Firmware Ver	V1.10C

Running Mode	Search Mode
Measure Type	Min; Avg; Max; Real
Datalog Mode	Continuous
Datalog Type	Auto
Diagnostic Mode	No
Stop Reason	Battery Low

Site ID	RAE00005
User ID	1

Begin	6/16/2016 10:11
End	6/16/2016 10:21
Sample Period(s)	60
Number of Records	9

Sensor	VOC(ppm)
Span	100
Span 2	N/A
Low Alarm	21.738
High Alarm	43.476
Over Alarm	15000
STEL Alarm	43.476
TWA Alarm	21.738
Measurement Gas	Isobutylene
Calibration Time	6/16/2016 7:31
Peak	0.469
Min	0.3
Average	0.393

****
Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	**Date/Time**	**(Min)**	**(Avg)**	**(Max)**	**(Real)**
1	6/16/2016 10:12	0.132	0.223	0.3	0.3
2	6/16/2016 10:13	0.286	0.315	0.345	0.31
3	6/16/2016 10:14	0.319	0.354	0.383	0.383
4	6/16/2016 10:15	0.385	0.396	0.421	0.421
5	6/16/2016 10:16	0.416	0.434	0.47	0.469
6	6/16/2016 10:17	0.431	0.44	0.465	0.445
7	6/16/2016 10:18	0.439	0.446	0.462	0.45

8	6/16/2016 10:19	0.362	0.421	0.449	0.364
9	6/16/2016 10:20	0.36	0.387	0.405	0.399

Peak	0.439	0.446	0.47	0.469
Min	0.132	0.223	0.3	0.3
Average	0.348	0.38	0.411	0.393

****

TWA/STEL

Index	**Date/Time**	VOC(ppm) **(TWA)**	VOC(ppm) **(STEL)**
1	6/16/2016 10:12	0.001	---
2	6/16/2016 10:13	0.001	---
3	6/16/2016 10:14	0.002	---
4	6/16/2016 10:15	0.003	---
5	6/16/2016 10:16	0.004	---
6	6/16/2016 10:17	0.005	---
7	6/16/2016 10:18	0.006	---
8	6/16/2016 10:19	0.007	---
9	6/16/2016 10:20	0.007	---

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Appendix G

Laboratory Analytical Reports and Validation

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Appendix G1

Laboratory Analytical Sample Reports

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RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Monday, August 29, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606286

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606286-001A	H11-SS01-01		6/7/2016 1:30 PM	6/9/2016 10:00 AM	Soil
1606286-001B	H11-SS01-01		6/7/2016 1:30 PM	6/9/2016 10:00 AM	Soil
1606286-001C	H11-SS01-01		6/7/2016 1:30 PM	6/9/2016 10:00 AM	Soil
1606286-002A	H11-SB01-04		6/7/2016 1:40 PM	6/9/2016 10:00 AM	Soil
1606286-002B	H11-SB01-04		6/7/2016 1:40 PM	6/9/2016 10:00 AM	Soil
1606286-002C	H11-SB01-04		6/7/2016 1:40 PM	6/9/2016 10:00 AM	Soil
1606286-003A	H11-SS02-01		6/7/2016 12:50 PM	6/9/2016 10:00 AM	Soil
1606286-003B	H11-SS02-01		6/7/2016 12:50 PM	6/9/2016 10:00 AM	Soil
1606286-003C	H11-SS02-01		6/7/2016 12:50 PM	6/9/2016 10:00 AM	Soil
1606286-004A	H11-SB02-04		6/7/2016 1:00 PM	6/9/2016 10:00 AM	Soil
1606286-004B	H11-SB02-04		6/7/2016 1:00 PM	6/9/2016 10:00 AM	Soil
1606286-004C	H11-SB02-04		6/7/2016 1:00 PM	6/9/2016 10:00 AM	Soil
1606286-005A	H11-SB02-06		6/7/2016 1:10 PM	6/9/2016 10:00 AM	Soil
1606286-005B	H11-SB02-06		6/7/2016 1:10 PM	6/9/2016 10:00 AM	Soil
1606286-005C	H11-SB02-06		6/7/2016 1:10 PM	6/9/2016 10:00 AM	Soil
1606286-006A	WDS-SB22-05		6/7/2016 3:35 PM	6/9/2016 10:00 AM	Soil
1606286-006B	WDS-SB22-05		6/7/2016 3:35 PM	6/9/2016 10:00 AM	Soil
1606286-006C	WDS-SB22-05		6/7/2016 3:35 PM	6/9/2016 10:00 AM	Soil
1606286-007A	WDS-SB23-05		6/7/2016 2:30 PM	6/9/2016 10:00 AM	Soil
1606286-007B	WDS-SB23-05		6/7/2016 2:30 PM	6/9/2016 10:00 AM	Soil
1606286-007C	WDS-SB23-05		6/7/2016 2:30 PM	6/9/2016 10:00 AM	Soil
1606286-008A	WDS-SB24-04		6/7/2016 2:10 PM	6/9/2016 10:00 AM	Soil
1606286-008B	WDS-SB24-04		6/7/2016 2:10 PM	6/9/2016 10:00 AM	Soil
1606286-008C	WDS-SB24-04		6/7/2016 2:10 PM	6/9/2016 10:00 AM	Soil
1606286-009A	WDS-SB25-08		6/7/2016 3:50 PM	6/9/2016 10:00 AM	Soil
1606286-009B	WDS-SB25-08		6/7/2016 3:50 PM	6/9/2016 10:00 AM	Soil
1606286-009C	WDS-SB25-08		6/7/2016 3:50 PM	6/9/2016 10:00 AM	Soil
1606286-010A	WDS-SB26-05		6/7/2016 4:20 PM	6/9/2016 10:00 AM	Soil
1606286-010B	WDS-SB26-05		6/7/2016 4:20 PM	6/9/2016 10:00 AM	Soil
1606286-010C	WDS-SB26-05		6/7/2016 4:20 PM	6/9/2016 10:00 AM	Soil
1606286-011A	WDS-SB27-08		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606286-011B	WDS-SB27-08		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606286-011C	WDS-SB27-08		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606286-012A	WDS-SB27-08 DUP		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606286-012B	WDS-SB27-08 DUP		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606286-012C	WDS-SB27-08 DUP		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A
- Polychlorinated Biphenyls - 8082A
- Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_6010S, Analytical Run ID 86750, Batch ID 40137:
Samples 1606293-005D MS/MSD: Several analytes were outside the control limits. RPD for Selenium was outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run ID 86852, Batch ID 40137:
Samples 1606293-005F MS/MSD: Cr and Mn were outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run ID 87363, Batch ID 40157:
Samples 1606389-005B MS/MSD: Several Analytes were outside the control limits

Analytical Comments for Test SW_8082S, Analytical Run No 86731, Batch ID 40143:
Sample 1606286-011B: Surrogate Decachlorobiphenyl exceeded recovery control limit.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87554, Batch ID R87554:
Sample CCV SIM 072016S7: Benzo(b)fluoranthene and Benzo(k)fluoranthene slightly exceeded QC limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 86796, Batch ID R40155:
Sample 1606293-005D MS: Fluoranthene was outside the control limits.
Sample 1606293-005D MSD: Several analytes outside the control limits. RPD for Chrysene, Fluoranthene and Pyrene were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87530, Batch ID R40155:
Sample 1606286-004A: Surrogate recoveries for Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87458, Batch ID R40155:
Sample 1606286-005A: Surrogate recoveries for Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 1:30:00 PM
Project:	Camp Hero		
Lab ID:	1606286-001	**Matrix:**	Soil
Client Sample ID:	H11-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0078	U	0.0035	0.0078	0.039	mg/Kg-dry	1	6/16/2016 4:44 PM
Aroclor 1221	0.0078	U	0.0035	0.0078	0.039	mg/Kg-dry	1	6/16/2016 4:44 PM
Aroclor 1232	0.0078	U	0.0053	0.0078	0.039	mg/Kg-dry	1	6/16/2016 4:44 PM
Aroclor 1242	0.0078	U	0.0044	0.0078	0.039	mg/Kg-dry	1	6/16/2016 4:44 PM
Aroclor 1248	0.0078	U	0.0041	0.0078	0.039	mg/Kg-dry	1	6/16/2016 4:44 PM
Aroclor 1254	0.0078	U	0.0050	0.0078	0.039	mg/Kg-dry	1	6/16/2016 4:44 PM
Aroclor 1260	0.0078	U	0.0034	0.0078	0.039	mg/Kg-dry	1	6/16/2016 4:44 PM
Aroclor 1262	0.0078	U	0.0034	0.0078	0.039	mg/Kg-dry	1	6/16/2016 4:44 PM
Aroclor 1268	0.0078	U	0.0029	0.0078	0.039	mg/Kg-dry	1	6/16/2016 4:44 PM
Surr: Tetrachloro-m-xylene	66.2			44-130		%Rec	1	6/16/2016 4:44 PM
Surr: Decachlorobiphenyl	75.4			60-125		%Rec	1	6/16/2016 4:44 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	3,300		58	150	390	mg/Kg-dry	100	6/16/2016 2:34 PM
Antimony	0.39	J	0.29	0.39	0.77	mg/Kg-dry	1	6/16/2016 12:22 PM
Arsenic	11		0.56	0.77	1.5	mg/Kg-dry	1	6/16/2016 12:22 PM
Barium	13		0.23	3.9	7.7	mg/Kg-dry	1	6/16/2016 12:22 PM
Beryllium	0.075	J	0.0098	0.039	0.19	mg/Kg-dry	1	6/16/2016 12:22 PM
Cadmium	0.049	J	0.026	0.039	0.19	mg/Kg-dry	1	6/16/2016 12:22 PM
Calcium	980		2.3	7.7	39	mg/Kg-dry	1	6/16/2016 12:22 PM
Chromium	5.4	G	0.064	0.31	0.39	mg/Kg-dry	1	6/22/2016 2:09 PM
Cobalt	0.46	J	0.070	0.19	0.77	mg/Kg-dry	1	6/16/2016 12:22 PM
Copper	18		0.32	0.77	3.9	mg/Kg-dry	1	6/16/2016 12:22 PM
Iron	7,000		24	39	120	mg/Kg-dry	10	6/16/2016 1:50 PM
Lead	3.8	J	0.48	0.77	3.9	mg/Kg-dry	1	6/16/2016 12:22 PM
Magnesium	380		2.7	3.9	39	mg/Kg-dry	1	6/16/2016 12:22 PM
Manganese	52		0.14	0.19	0.77	mg/Kg-dry	1	6/22/2016 2:09 PM
Nickel	3.0	J	0.22	0.77	3.9	mg/Kg-dry	1	6/16/2016 12:22 PM
Potassium	210		1.8	7.7	15	mg/Kg-dry	1	6/16/2016 12:22 PM
Selenium	1.2	U	0.90	1.2	1.5	mg/Kg-dry	1	6/16/2016 12:22 PM
Silver	0.19	U	0.063	0.19	0.77	mg/Kg-dry	1	6/16/2016 12:22 PM
Sodium	55		1.6	3.9	39	mg/Kg-dry	1	6/16/2016 12:22 PM
Vanadium	8.9		0.098	0.77	1.9	mg/Kg-dry	1	6/16/2016 12:22 PM
Zinc	5.0		0.30	0.39	3.9	mg/Kg-dry	1	6/16/2016 12:22 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.062	JG	0.038	0.039	0.16	mg/Kg-dry	10	7/6/2016 3:15 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0034		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
2-Methylnaphthalene	0.0045		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Acenaphthene	0.0018		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Acenaphthylene	0.00087		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM

RTI Laboratories - Analytical Report

WO#: 1606286

Date Reported: 8/29/2016
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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 1:30:00 PM
Project:	Camp Hero		
Lab ID:	1606286-001	**Matrix:**	Soil
Client Sample ID:	H11-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.0056		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Benz(a)anthracene	0.028		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Benzo(a)pyrene	0.026		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Benzo(b)fluoranthene	0.049	Y	0.0024	0.0024	0.0024	mg/Kg-dry	3	7/20/2016 7:00 PM
Benzo(g,h,i)perylene	0.0099		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Benzo(k)fluoranthene	0.011		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Chrysene	0.025		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Dibenzo(a,h)anthracene	0.0035		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Fluoranthene	0.063		0.0024	0.0024	0.0024	mg/Kg-dry	3	7/20/2016 7:00 PM
Fluorene	0.0014		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Indeno(1,2,3-cd)pyrene	0.010		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Naphthalene	0.0033		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Phenanthrene	0.020		0.00079	0.00079	0.00079	mg/Kg-dry	1	6/17/2016 10:04 PM
Pyrene	0.063		0.0024	0.0024	0.0024	mg/Kg-dry	3	7/20/2016 7:00 PM
Surr: 2-Fluorobiphenyl	76.2			46-115		%Rec	1	6/17/2016 10:04 PM
Surr: Nitrobenzene-d5	79.1			44-125		%Rec	1	6/17/2016 10:04 PM
Surr: Terphenyl-d14	93.2			58-133		%Rec	1	6/17/2016 10:04 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 1:40:00 PM
Project: Camp Hero
Lab ID: 1606286-002 **Matrix:** Soil
Client Sample ID: H11-SB01-04

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0080	U	0.0036	0.0080	0.039	mg/Kg-dry	1	6/16/2016 10:24 AM
Aroclor 1221	0.0080	U	0.0036	0.0080	0.039	mg/Kg-dry	1	6/16/2016 10:24 AM
Aroclor 1232	0.0080	U	0.0054	0.0080	0.039	mg/Kg-dry	1	6/16/2016 10:24 AM
Aroclor 1242	0.0080	U	0.0044	0.0080	0.039	mg/Kg-dry	1	6/16/2016 10:24 AM
Aroclor 1248	0.0080	U	0.0042	0.0080	0.039	mg/Kg-dry	1	6/16/2016 10:24 AM
Aroclor 1254	0.0080	U	0.0051	0.0080	0.039	mg/Kg-dry	1	6/16/2016 10:24 AM
Aroclor 1260	0.0080	U	0.0035	0.0080	0.039	mg/Kg-dry	1	6/16/2016 10:24 AM
Aroclor 1262	0.0080	U	0.0035	0.0080	0.039	mg/Kg-dry	1	6/16/2016 10:24 AM
Aroclor 1268	0.0080	U	0.0029	0.0080	0.039	mg/Kg-dry	1	6/16/2016 10:24 AM
Surr: Tetrachloro-m-xylene	58.1			44-130		%Rec	1	6/16/2016 10:24 AM
Surr: Decachlorobiphenyl	67.8			60-125		%Rec	1	6/16/2016 10:24 AM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	7,200		58	150	390	mg/Kg-dry	100	6/16/2016 2:41 PM
Antimony	0.78		0.29	0.39	0.77	mg/Kg-dry	1	6/16/2016 12:24 PM
Arsenic	9.4		0.56	0.77	1.5	mg/Kg-dry	1	6/16/2016 12:24 PM
Barium	16		0.23	3.9	7.7	mg/Kg-dry	1	6/16/2016 12:24 PM
Beryllium	0.17	J	0.0098	0.039	0.19	mg/Kg-dry	1	6/16/2016 12:24 PM
Cadmium	0.033	J	0.025	0.039	0.19	mg/Kg-dry	1	6/16/2016 12:24 PM
Calcium	830		2.3	7.7	39	mg/Kg-dry	1	6/16/2016 12:24 PM
Chromium	14	G	0.064	0.31	0.39	mg/Kg-dry	1	6/22/2016 2:11 PM
Cobalt	0.87		0.069	0.19	0.77	mg/Kg-dry	1	6/16/2016 12:24 PM
Copper	40		0.32	0.77	3.9	mg/Kg-dry	1	6/16/2016 12:24 PM
Iron	17,000		24	39	120	mg/Kg-dry	10	6/16/2016 1:52 PM
Lead	2.7	J	0.48	0.77	3.9	mg/Kg-dry	1	6/16/2016 12:24 PM
Magnesium	740		2.7	3.9	39	mg/Kg-dry	1	6/16/2016 12:24 PM
Manganese	75		0.14	0.19	0.77	mg/Kg-dry	1	6/22/2016 2:11 PM
Nickel	5.2		0.22	0.77	3.9	mg/Kg-dry	1	6/16/2016 12:24 PM
Potassium	270		1.8	7.7	15	mg/Kg-dry	1	6/16/2016 12:24 PM
Selenium	1.2	U	0.90	1.2	1.5	mg/Kg-dry	1	6/16/2016 12:24 PM
Silver	0.19	U	0.063	0.19	0.77	mg/Kg-dry	1	6/16/2016 12:24 PM
Sodium	52		1.6	3.9	39	mg/Kg-dry	1	6/16/2016 12:24 PM
Vanadium	24		0.098	0.77	1.9	mg/Kg-dry	1	6/16/2016 12:24 PM
Zinc	8.6		0.30	0.39	3.9	mg/Kg-dry	1	6/16/2016 12:24 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.063	JG	0.038	0.039	0.16	mg/Kg-dry	10	7/6/2016 3:16 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
1-Methylnaphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
2-Methylnaphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Acenaphthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Acenaphthylene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM

RTI Laboratories - Analytical Report

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 1:40:00 PM
Project:	Camp Hero		
Lab ID:	1606286-002	**Matrix:**	Soil
Client Sample ID:	H11-SB01-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Benz(a)anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Benzo(a)pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Benzo(b)fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Benzo(g,h,i)perylene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Benzo(k)fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Chrysene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Dibenzo(a,h)anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Fluorene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Indeno(1,2,3-cd)pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Naphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Phenanthrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/17/2016 10:32 PM
Surr: 2-Fluorobiphenyl	69.7			46-115		%Rec	1	6/17/2016 10:32 PM
Surr: Nitrobenzene-d5	72.2			44-125		%Rec	1	6/17/2016 10:32 PM
Surr: Terphenyl-d14	78.9			58-133		%Rec	1	6/17/2016 10:32 PM

Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606286-003	**Matrix:**	Soil
Client Sample ID:	H11-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0076	U	0.0034	0.0076	0.038	mg/Kg-dry	1	6/16/2016 1:27 AM
Aroclor 1221	0.0076	U	0.0034	0.0076	0.038	mg/Kg-dry	1	6/16/2016 1:27 AM
Aroclor 1232	0.0076	U	0.0051	0.0076	0.038	mg/Kg-dry	1	6/16/2016 1:27 AM
Aroclor 1242	0.0076	U	0.0043	0.0076	0.038	mg/Kg-dry	1	6/16/2016 1:27 AM
Aroclor 1248	0.0076	U	0.0040	0.0076	0.038	mg/Kg-dry	1	6/16/2016 1:27 AM
Aroclor 1254	0.0076	U	0.0048	0.0076	0.038	mg/Kg-dry	1	6/16/2016 1:27 AM
Aroclor 1260	0.0076	U	0.0034	0.0076	0.038	mg/Kg-dry	1	6/16/2016 1:27 AM
Aroclor 1262	0.0076	U	0.0034	0.0076	0.038	mg/Kg-dry	1	6/16/2016 1:27 AM
Aroclor 1268	0.0076	U	0.0028	0.0076	0.038	mg/Kg-dry	1	6/16/2016 1:27 AM
Surr: Tetrachloro-m-xylene	71.1			44-130		%Rec	1	6/16/2016 1:27 AM
Surr: Decachlorobiphenyl	84.6			60-125		%Rec	1	6/16/2016 1:27 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	13,000		57	150	380	mg/Kg-dry	100	6/16/2016 2:51 PM
Antimony	2.0		0.28	0.38	0.76	mg/Kg-dry	1	6/16/2016 12:25 PM
Arsenic	3.3		0.55	0.76	1.5	mg/Kg-dry	1	6/16/2016 12:25 PM
Barium	24		0.22	3.8	7.6	mg/Kg-dry	1	6/16/2016 12:25 PM
Beryllium	0.42		0.0096	0.038	0.19	mg/Kg-dry	1	6/16/2016 12:25 PM
Cadmium	0.031	J	0.025	0.038	0.19	mg/Kg-dry	1	6/16/2016 12:25 PM
Calcium	1,000		2.2	7.6	38	mg/Kg-dry	1	6/16/2016 12:25 PM
Chromium	13	G	0.062	0.30	0.38	mg/Kg-dry	1	6/22/2016 2:17 PM
Cobalt	2.1		0.068	0.19	0.76	mg/Kg-dry	1	6/16/2016 12:25 PM
Copper	26		0.31	0.76	3.8	mg/Kg-dry	1	6/16/2016 12:25 PM
Iron	12,000		24	38	110	mg/Kg-dry	10	6/16/2016 1:53 PM
Lead	4.0		0.47	0.76	3.8	mg/Kg-dry	1	6/16/2016 12:25 PM
Magnesium	1,200		2.6	3.8	38	mg/Kg-dry	1	6/16/2016 12:25 PM
Manganese	95		0.14	0.19	0.76	mg/Kg-dry	1	6/22/2016 2:17 PM
Nickel	7.9		0.21	0.76	3.8	mg/Kg-dry	1	6/16/2016 12:25 PM
Potassium	560		1.8	7.6	15	mg/Kg-dry	1	6/16/2016 12:25 PM
Selenium	1.1	U	0.88	1.1	1.5	mg/Kg-dry	1	6/16/2016 12:25 PM
Silver	0.19	U	0.062	0.19	0.76	mg/Kg-dry	1	6/16/2016 12:25 PM
Sodium	61		1.5	3.8	38	mg/Kg-dry	1	6/16/2016 12:25 PM
Vanadium	22		0.096	0.76	1.9	mg/Kg-dry	1	6/16/2016 12:25 PM
Zinc	12		0.29	0.38	3.8	mg/Kg-dry	1	6/16/2016 12:25 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.073	JG	0.037	0.038	0.15	mg/Kg-dry	10	7/6/2016 3:16 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0027		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
2-Methylnaphthalene	0.0013		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Acenaphthene	0.0033		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Acenaphthylene	0.0017		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606286-003	**Matrix:**	Soil
Client Sample ID:	H11-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.0083		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Benz(a)anthracene	0.022		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Benzo(a)pyrene	0.021		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Benzo(b)fluoranthene	0.032		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Benzo(g,h,i)perylene	0.0088		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Benzo(k)fluoranthene	0.0091		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Chrysene	0.019		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Dibenzo(a,h)anthracene	0.0031		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Fluoranthene	0.050		0.0023	0.0023	0.0023	mg/Kg-dry	3	7/20/2016 6:32 PM
Fluorene	0.0033		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Indeno(1,2,3-cd)pyrene	0.0092		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Naphthalene	0.0043		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Phenanthrene	0.023		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Pyrene	0.032		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/17/2016 11:00 PM
Surr: 2-Fluorobiphenyl	68.5			46-115		%Rec	1	6/17/2016 11:00 PM
Surr: Nitrobenzene-d5	73.2			44-125		%Rec	1	6/17/2016 11:00 PM
Surr: Terphenyl-d14	81.5			58-133		%Rec	1	6/17/2016 11:00 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 1:00:00 PM
Project:	Camp Hero		
Lab ID:	1606286-004	**Matrix:**	Soil
Client Sample ID:	H11-SB02-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0080	U	0.0036	0.0080	0.040	mg/Kg-dry	1	6/16/2016 1:51 AM
Aroclor 1221	0.0080	U	0.0036	0.0080	0.040	mg/Kg-dry	1	6/16/2016 1:51 AM
Aroclor 1232	0.0080	U	0.0054	0.0080	0.040	mg/Kg-dry	1	6/16/2016 1:51 AM
Aroclor 1242	0.0080	U	0.0045	0.0080	0.040	mg/Kg-dry	1	6/16/2016 1:51 AM
Aroclor 1248	0.0080	U	0.0042	0.0080	0.040	mg/Kg-dry	1	6/16/2016 1:51 AM
Aroclor 1254	0.0080	U	0.0051	0.0080	0.040	mg/Kg-dry	1	6/16/2016 1:51 AM
Aroclor 1260	0.0080	U	0.0035	0.0080	0.040	mg/Kg-dry	1	6/16/2016 1:51 AM
Aroclor 1262	0.0080	U	0.0035	0.0080	0.040	mg/Kg-dry	1	6/16/2016 1:51 AM
Aroclor 1268	0.0080	U	0.0029	0.0080	0.040	mg/Kg-dry	1	6/16/2016 1:51 AM
Surr: Tetrachloro-m-xylene	55.9			44-130		%Rec	1	6/16/2016 1:51 AM
Surr: Decachlorobiphenyl	74.4			60-125		%Rec	1	6/16/2016 1:51 AM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	12,000		60	160	400	mg/Kg-dry	100	6/16/2016 2:52 PM
Antimony	1.9		0.30	0.40	0.80	mg/Kg-dry	1	6/16/2016 12:27 PM
Arsenic	1.8		0.58	0.80	1.6	mg/Kg-dry	1	6/16/2016 12:27 PM
Barium	20		0.24	4.0	8.0	mg/Kg-dry	1	6/16/2016 12:27 PM
Beryllium	0.34		0.010	0.040	0.20	mg/Kg-dry	1	6/16/2016 12:27 PM
Cadmium	0.19	J	0.026	0.040	0.20	mg/Kg-dry	1	6/16/2016 12:27 PM
Calcium	920		2.3	8.0	40	mg/Kg-dry	1	6/16/2016 12:27 PM
Chromium	12	G	0.066	0.32	0.40	mg/Kg-dry	1	6/22/2016 2:19 PM
Cobalt	1.9		0.072	0.20	0.80	mg/Kg-dry	1	6/16/2016 12:27 PM
Copper	26		0.33	0.80	4.0	mg/Kg-dry	1	6/16/2016 12:27 PM
Iron	11,000		25	40	120	mg/Kg-dry	10	6/16/2016 1:55 PM
Lead	9.7		0.50	0.80	4.0	mg/Kg-dry	1	6/16/2016 12:27 PM
Magnesium	1,000		2.8	4.0	40	mg/Kg-dry	1	6/16/2016 12:27 PM
Manganese	98		0.15	0.20	0.80	mg/Kg-dry	1	6/22/2016 2:19 PM
Nickel	7.0		0.23	0.80	4.0	mg/Kg-dry	1	6/16/2016 12:27 PM
Potassium	460		1.9	8.0	16	mg/Kg-dry	1	6/16/2016 12:27 PM
Selenium	1.2	U	0.93	1.2	1.6	mg/Kg-dry	1	6/16/2016 12:27 PM
Silver	0.20	U	0.065	0.20	0.80	mg/Kg-dry	1	6/16/2016 12:27 PM
Sodium	70		1.6	4.0	40	mg/Kg-dry	1	6/16/2016 12:27 PM
Vanadium	20		0.10	0.80	2.0	mg/Kg-dry	1	6/16/2016 12:27 PM
Zinc	35		0.31	0.40	4.0	mg/Kg-dry	1	6/16/2016 12:27 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.076	JG	0.037	0.038	0.15	mg/Kg-dry	10	7/6/2016 3:17 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	6.2		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 2:54 AM
2-Methylnaphthalene	6.0		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 2:54 AM
Acenaphthene	0.16	U	0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 2:54 AM
Acenaphthylene	0.34		0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM

RTI Laboratories - Analytical Report

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 1:00:00 PM
Project:	Camp Hero		
Lab ID:	1606286-004	**Matrix:**	Soil
Client Sample ID:	H11-SB02-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	5.7		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 2:54 AM
Benz(a)anthracene	0.27		0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM
Benzo(a)pyrene	0.13		0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM
Benzo(b)fluoranthene	0.25		0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM
Benzo(g,h,i)perylene	0.095	Y	0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM
Benzo(k)fluoranthene	0.068		0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM
Chrysene	0.18		0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM
Dibenzo(a,h)anthracene	0.016	U	0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM
Fluoranthene	0.48		0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM
Fluorene	0.50		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 2:54 AM
Indeno(1,2,3-cd)pyrene	0.081		0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM
Naphthalene	0.72		0.016	0.016	0.016	mg/Kg-dry	20	6/25/2016 2:27 AM
Phenanthrene	7.0		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 2:54 AM
Pyrene	1.2		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 2:54 AM
Surr: 2-Fluorobiphenyl	64.5			46-115		%Rec	20	6/25/2016 2:27 AM
Surr: Nitrobenzene-d5	4,530	JQ		44-125		%Rec	20	6/25/2016 2:27 AM
Surr: Terphenyl-d14	228	Q		58-133		%Rec	20	6/25/2016 2:27 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 1:10:00 PM
Project:	Camp Hero		
Lab ID:	1606286-005	**Matrix:**	Soil
Client Sample ID:	H11-SB02-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0079	U	0.0036	0.0079	0.039	mg/Kg-dry	1	6/16/2016 10:48 AM
Aroclor 1221	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	6/16/2016 10:48 AM
Aroclor 1232	0.0079	U	0.0053	0.0079	0.039	mg/Kg-dry	1	6/16/2016 10:48 AM
Aroclor 1242	0.0079	U	0.0044	0.0079	0.039	mg/Kg-dry	1	6/16/2016 10:48 AM
Aroclor 1248	0.0079	U	0.0042	0.0079	0.039	mg/Kg-dry	1	6/16/2016 10:48 AM
Aroclor 1254	0.077		0.0050	0.0079	0.039	mg/Kg-dry	1	6/16/2016 10:48 AM
Aroclor 1260	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	6/16/2016 10:48 AM
Aroclor 1262	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	6/16/2016 10:48 AM
Aroclor 1268	0.0079	U	0.0029	0.0079	0.039	mg/Kg-dry	1	6/16/2016 10:48 AM
Surr: Tetrachloro-m-xylene	60.6			44-130		%Rec	1	6/16/2016 10:48 AM
Surr: Decachlorobiphenyl	79.0			60-125		%Rec	1	6/16/2016 10:48 AM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	9,800		58	160	390	mg/Kg-dry	100	6/16/2016 2:54 PM
Antimony	2.7		0.29	0.39	0.78	mg/Kg-dry	1	6/16/2016 12:28 PM
Arsenic	2.4		0.56	0.78	1.6	mg/Kg-dry	1	6/16/2016 12:28 PM
Barium	22		0.23	3.9	7.8	mg/Kg-dry	1	6/16/2016 12:28 PM
Beryllium	0.33		0.0098	0.039	0.19	mg/Kg-dry	1	6/16/2016 12:28 PM
Cadmium	0.090	J	0.026	0.039	0.19	mg/Kg-dry	1	6/16/2016 12:28 PM
Calcium	1,600		2.3	7.8	39	mg/Kg-dry	1	6/16/2016 12:28 PM
Chromium	13	G	0.064	0.31	0.39	mg/Kg-dry	1	6/22/2016 2:20 PM
Cobalt	2.7		0.070	0.19	0.78	mg/Kg-dry	1	6/16/2016 12:28 PM
Copper	25		0.32	0.78	3.9	mg/Kg-dry	1	6/16/2016 12:28 PM
Iron	10,000		24	39	120	mg/Kg-dry	10	6/16/2016 1:56 PM
Lead	10		0.48	0.78	3.9	mg/Kg-dry	1	6/16/2016 12:28 PM
Magnesium	1,600		2.7	3.9	39	mg/Kg-dry	1	6/16/2016 12:28 PM
Manganese	130		0.14	0.19	0.78	mg/Kg-dry	1	6/22/2016 2:20 PM
Nickel	7.6		0.22	0.78	3.9	mg/Kg-dry	1	6/16/2016 12:28 PM
Potassium	800		1.8	7.8	16	mg/Kg-dry	1	6/16/2016 12:28 PM
Selenium	1.2	U	0.90	1.2	1.6	mg/Kg-dry	1	6/16/2016 12:28 PM
Silver	0.19	U	0.063	0.19	0.78	mg/Kg-dry	1	6/16/2016 12:28 PM
Sodium	81		1.6	3.9	39	mg/Kg-dry	1	6/16/2016 12:28 PM
Vanadium	18		0.098	0.78	1.9	mg/Kg-dry	1	6/16/2016 12:28 PM
Zinc	29		0.30	0.39	3.9	mg/Kg-dry	1	6/16/2016 12:28 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.074	JG	0.038	0.039	0.16	mg/Kg-dry	10	7/6/2016 3:18 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.39		0.039	0.039	0.039	mg/Kg-dry	50	6/25/2016 3:23 AM
2-Methylnaphthalene	0.23		0.039	0.039	0.039	mg/Kg-dry	50	6/25/2016 3:23 AM
Acenaphthene	0.93		0.039	0.039	0.039	mg/Kg-dry	50	6/25/2016 3:23 AM
Acenaphthylene	0.20		0.039	0.039	0.039	mg/Kg-dry	50	6/25/2016 3:23 AM

RTI Laboratories - Analytical Report

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 1:10:00 PM
Project:	Camp Hero		
Lab ID:	1606286-005	**Matrix:**	Soil
Client Sample ID:	H11-SB02-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	5.7		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 3:51 AM
Benz(a)anthracene	5.6		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 3:51 AM
Benzo(a)pyrene	2.8		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 3:51 AM
Benzo(b)fluoranthene	6.2		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 3:51 AM
Benzo(g,h,i)perylene	3.2	Y	0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 3:51 AM
Benzo(k)fluoranthene	1.6		0.039	0.039	0.039	mg/Kg-dry	50	6/25/2016 3:23 AM
Chrysene	4.3		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 3:51 AM
Dibenzo(a,h)anthracene	0.50		0.039	0.039	0.039	mg/Kg-dry	50	6/25/2016 3:23 AM
Fluoranthene	12	J	0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 3:51 AM
Fluorene	1.1		0.039	0.039	0.039	mg/Kg-dry	50	6/25/2016 3:23 AM
Indeno(1,2,3-cd)pyrene	2.7		0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 3:51 AM
Naphthalene	1.0		0.039	0.039	0.039	mg/Kg-dry	50	6/25/2016 3:23 AM
Phenanthrene	8.9	J	0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 3:51 AM
Pyrene	8.7	J	0.16	0.16	0.16	mg/Kg-dry	200	6/25/2016 3:51 AM
Surr: 2-Fluorobiphenyl	141	Q		46-115		%Rec	50	6/25/2016 3:23 AM
Surr: Nitrobenzene-d5	106			44-125		%Rec	50	6/25/2016 3:23 AM
Surr: Terphenyl-d14	188	Q		58-133		%Rec	50	6/25/2016 3:23 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:35:00 PM
Project:	Camp Hero		
Lab ID:	1606286-006	**Matrix:**	Soil
Client Sample ID:	WDS-SB22-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/7/2016 5:13 AM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/7/2016 5:13 AM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/7/2016 5:13 AM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	7/7/2016 5:13 AM
Aroclor 1248	0.0073	U	0.0039	0.0073	0.036	mg/Kg-dry	1	7/7/2016 5:13 AM
Aroclor 1254	0.0073	U	0.0047	0.0073	0.036	mg/Kg-dry	1	7/7/2016 5:13 AM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/7/2016 5:13 AM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/7/2016 5:13 AM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/7/2016 5:13 AM
Surr: Tetrachloro-m-xylene	92.8			44-130		%Rec	1	7/7/2016 5:13 AM
Surr: Decachlorobiphenyl	90.3			60-125		%Rec	1	7/7/2016 5:13 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,200		56	150	370	mg/Kg-dry	100	6/16/2016 2:55 PM
Antimony	3.0		0.28	0.37	0.75	mg/Kg-dry	1	6/16/2016 12:30 PM
Arsenic	2.0		0.54	0.75	1.5	mg/Kg-dry	1	6/16/2016 12:30 PM
Barium	23		0.22	3.7	7.5	mg/Kg-dry	1	6/16/2016 12:30 PM
Beryllium	0.31		0.0095	0.037	0.19	mg/Kg-dry	1	6/16/2016 12:30 PM
Cadmium	0.046	J	0.025	0.037	0.19	mg/Kg-dry	1	6/16/2016 12:30 PM
Calcium	480		2.2	7.5	37	mg/Kg-dry	1	6/16/2016 12:30 PM
Chromium	9.9	G	0.062	0.30	0.37	mg/Kg-dry	1	6/22/2016 2:21 PM
Cobalt	3.0		0.067	0.19	0.75	mg/Kg-dry	1	6/16/2016 12:30 PM
Copper	25		0.31	0.75	3.7	mg/Kg-dry	1	6/16/2016 12:30 PM
Iron	11,000		23	37	110	mg/Kg-dry	10	6/16/2016 1:58 PM
Lead	2.6	J	0.47	0.75	3.7	mg/Kg-dry	1	6/16/2016 12:30 PM
Magnesium	1,400		2.6	3.7	37	mg/Kg-dry	1	6/16/2016 12:30 PM
Manganese	270		1.4	1.9	7.5	mg/Kg-dry	10	6/22/2016 3:04 PM
Nickel	7.2		0.21	0.75	3.7	mg/Kg-dry	1	6/16/2016 12:30 PM
Potassium	840		1.7	7.5	15	mg/Kg-dry	1	6/16/2016 12:30 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	6/16/2016 12:30 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	6/16/2016 12:30 PM
Sodium	54		1.5	3.7	37	mg/Kg-dry	1	6/16/2016 12:30 PM
Vanadium	18		0.095	0.75	1.9	mg/Kg-dry	1	6/16/2016 12:30 PM
Zinc	13		0.29	0.37	3.7	mg/Kg-dry	1	6/16/2016 12:30 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.081	JG	0.036	0.037	0.15	mg/Kg-dry	10	7/6/2016 3:19 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0027		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
2-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Acenaphthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Acenaphthylene	0.00095		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM

RTI Laboratories - Analytical Report

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:35:00 PM
Project:	Camp Hero		
Lab ID:	1606286-006	**Matrix:**	Soil
Client Sample ID:	WDS-SB22-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Benz(a)anthracene	0.0019		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Benzo(a)pyrene	0.0013		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Benzo(b)fluoranthene	0.0032		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Benzo(g,h,i)perylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Benzo(k)fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Chrysene	0.0015		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Fluoranthene	0.0026		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Fluorene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Indeno(1,2,3-cd)pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Naphthalene	0.00090		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Phenanthrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Pyrene	0.0020		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/18/2016 12:24 AM
Surr: 2-Fluorobiphenyl	71.4			46-115		%Rec	1	6/18/2016 12:24 AM
Surr: Nitrobenzene-d5	76.3			44-125		%Rec	1	6/18/2016 12:24 AM
Surr: Terphenyl-d14	90.9			58-133		%Rec	1	6/18/2016 12:24 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 2:30:00 PM
Project:	Camp Hero		
Lab ID:	1606286-007	**Matrix:**	Soil
Client Sample ID:	WDS-SB23-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0079	U	0.0036	0.0079	0.039	mg/Kg-dry	1	6/16/2016 6:21 PM
Aroclor 1221	0.0079	U	0.0036	0.0079	0.039	mg/Kg-dry	1	6/16/2016 6:21 PM
Aroclor 1232	0.0079	U	0.0054	0.0079	0.039	mg/Kg-dry	1	6/16/2016 6:21 PM
Aroclor 1242	0.0079	U	0.0044	0.0079	0.039	mg/Kg-dry	1	6/16/2016 6:21 PM
Aroclor 1248	0.0079	U	0.0042	0.0079	0.039	mg/Kg-dry	1	6/16/2016 6:21 PM
Aroclor 1254	0.0079	U	0.0050	0.0079	0.039	mg/Kg-dry	1	6/16/2016 6:21 PM
Aroclor 1260	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	6/16/2016 6:21 PM
Aroclor 1262	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	6/16/2016 6:21 PM
Aroclor 1268	0.0079	U	0.0029	0.0079	0.039	mg/Kg-dry	1	6/16/2016 6:21 PM
Surr: Tetrachloro-m-xylene	55.7			44-130		%Rec	1	6/16/2016 6:21 PM
Surr: Decachlorobiphenyl	65.4			60-125		%Rec	1	6/16/2016 6:21 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	4,500		60	160	400	mg/Kg-dry	100	6/16/2016 2:57 PM
Antimony	2.6		0.30	0.40	0.80	mg/Kg-dry	1	6/16/2016 1:02 PM
Arsenic	25		0.58	0.80	1.6	mg/Kg-dry	1	6/16/2016 1:02 PM
Barium	24		0.24	4.0	8.0	mg/Kg-dry	1	6/16/2016 1:02 PM
Beryllium	0.57		0.010	0.040	0.20	mg/Kg-dry	1	6/16/2016 1:02 PM
Cadmium	0.46		0.026	0.040	0.20	mg/Kg-dry	1	6/16/2016 1:02 PM
Calcium	460		2.3	8.0	40	mg/Kg-dry	1	6/16/2016 1:02 PM
Chromium	9.2	G	0.066	0.32	0.40	mg/Kg-dry	1	6/22/2016 2:23 PM
Cobalt	2.6		0.072	0.20	0.80	mg/Kg-dry	1	6/16/2016 1:02 PM
Copper	29		0.33	0.80	4.0	mg/Kg-dry	1	6/16/2016 1:02 PM
Iron	13,000		25	40	120	mg/Kg-dry	10	6/16/2016 1:59 PM
Lead	4.2		0.50	0.80	4.0	mg/Kg-dry	1	6/16/2016 1:02 PM
Magnesium	940		2.8	4.0	40	mg/Kg-dry	1	6/16/2016 1:02 PM
Manganese	84		0.15	0.20	0.80	mg/Kg-dry	1	6/22/2016 2:23 PM
Nickel	5.9		0.22	0.80	4.0	mg/Kg-dry	1	6/16/2016 1:02 PM
Potassium	670		1.9	8.0	16	mg/Kg-dry	1	6/16/2016 1:02 PM
Selenium	1.2	U	0.93	1.2	1.6	mg/Kg-dry	1	6/16/2016 1:02 PM
Silver	0.18	J	0.065	0.20	0.80	mg/Kg-dry	1	6/16/2016 1:02 PM
Sodium	74		1.6	4.0	40	mg/Kg-dry	1	6/16/2016 1:02 PM
Vanadium	22		0.10	0.80	2.0	mg/Kg-dry	1	6/16/2016 1:02 PM
Zinc	12		0.31	0.40	4.0	mg/Kg-dry	1	6/16/2016 1:02 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.14	JG	0.039	0.040	0.16	mg/Kg-dry	10	7/6/2016 3:19 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
1-Methylnaphthalene	0.0024		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM
2-Methylnaphthalene	0.0020		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM
Acenaphthene	0.012		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM
Acenaphthylene	0.0012		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM

RTI Laboratories - Analytical Report

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 2:30:00 PM
Project:	Camp Hero		
Lab ID:	1606286-007	**Matrix:**	Soil
Client Sample ID:	WDS-SB23-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.036		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM
Benz(a)anthracene	0.099		0.0040	0.0040	0.0040	mg/Kg-dry	5	6/25/2016 4:20 AM
Benzo(a)pyrene	0.060		0.0040	0.0040	0.0040	mg/Kg-dry	5	6/25/2016 4:20 AM
Benzo(b)fluoranthene	0.095		0.0040	0.0040	0.0040	mg/Kg-dry	5	6/25/2016 4:20 AM
Benzo(g,h,i)perylene	0.014		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM
Benzo(k)fluoranthene	0.021		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM
Chrysene	0.050		0.0040	0.0040	0.0040	mg/Kg-dry	5	6/25/2016 4:20 AM
Dibenzo(a,h)anthracene	0.0047		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM
Fluoranthene	0.17		0.0040	0.0040	0.0040	mg/Kg-dry	5	6/25/2016 4:20 AM
Fluorene	0.012		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM
Indeno(1,2,3-cd)pyrene	0.015		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM
Naphthalene	0.0025		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/18/2016 12:53 AM
Phenanthrene	0.15		0.0040	0.0040	0.0040	mg/Kg-dry	5	6/25/2016 4:20 AM
Pyrene	0.15		0.0040	0.0040	0.0040	mg/Kg-dry	5	6/25/2016 4:20 AM
Surr: 2-Fluorobiphenyl	64.3			46-115		%Rec	1	6/18/2016 12:53 AM
Surr: Nitrobenzene-d5	68.3			44-125		%Rec	1	6/18/2016 12:53 AM
Surr: Terphenyl-d14	106			58-133		%Rec	1	6/18/2016 12:53 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 2:10:00 PM
Project: Camp Hero
Lab ID: 1606286-008 **Matrix:** Soil
Client Sample ID: WDS-SB24-04

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	7/7/2016 5:37 AM
Aroclor 1221	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	7/7/2016 5:37 AM
Aroclor 1232	0.0081	U	0.0054	0.0081	0.040	mg/Kg-dry	1	7/7/2016 5:37 AM
Aroclor 1242	0.0081	U	0.0045	0.0081	0.040	mg/Kg-dry	1	7/7/2016 5:37 AM
Aroclor 1248	0.0081	U	0.0043	0.0081	0.040	mg/Kg-dry	1	7/7/2016 5:37 AM
Aroclor 1254	0.0081	U	0.0051	0.0081	0.040	mg/Kg-dry	1	7/7/2016 5:37 AM
Aroclor 1260	0.0081	U	0.0035	0.0081	0.040	mg/Kg-dry	1	7/7/2016 5:37 AM
Aroclor 1262	0.0081	U	0.0035	0.0081	0.040	mg/Kg-dry	1	7/7/2016 5:37 AM
Aroclor 1268	0.0081	U	0.0030	0.0081	0.040	mg/Kg-dry	1	7/7/2016 5:37 AM
Surr: Tetrachloro-m-xylene	74.3			44-130		%Rec	1	7/7/2016 5:37 AM
Surr: Decachlorobiphenyl	78.3			60-125		%Rec	1	7/7/2016 5:37 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	26,000		120	330	820	mg/Kg-dry	200	6/16/2016 3:23 PM
Antimony	5.4		0.31	0.41	0.82	mg/Kg-dry	1	6/16/2016 1:04 PM
Arsenic	2.9		0.60	0.82	1.6	mg/Kg-dry	1	6/16/2016 1:04 PM
Barium	120		0.25	4.1	8.2	mg/Kg-dry	1	6/16/2016 1:04 PM
Beryllium	0.83		0.010	0.041	0.21	mg/Kg-dry	1	6/16/2016 1:04 PM
Cadmium	0.17	J	0.027	0.041	0.21	mg/Kg-dry	1	6/16/2016 1:04 PM
Calcium	1,600		2.4	8.2	41	mg/Kg-dry	1	6/16/2016 1:04 PM
Chromium	36	G	0.068	0.33	0.41	mg/Kg-dry	1	6/22/2016 2:24 PM
Cobalt	5.6		0.074	0.21	0.82	mg/Kg-dry	1	6/16/2016 1:04 PM
Copper	52		0.34	0.82	4.1	mg/Kg-dry	1	6/16/2016 1:04 PM
Iron	15,000		26	41	120	mg/Kg-dry	10	6/16/2016 2:01 PM
Lead	6.6		0.51	0.82	4.1	mg/Kg-dry	1	6/16/2016 1:04 PM
Magnesium	5,800		29	41	410	mg/Kg-dry	10	6/16/2016 2:01 PM
Manganese	250		1.5	2.1	8.2	mg/Kg-dry	10	6/22/2016 3:05 PM
Nickel	22		0.23	0.82	4.1	mg/Kg-dry	1	6/16/2016 1:04 PM
Potassium	3,200		19	82	160	mg/Kg-dry	10	6/16/2016 2:01 PM
Selenium	1.2	U	0.96	1.2	1.6	mg/Kg-dry	1	6/16/2016 1:04 PM
Silver	0.21	U	0.067	0.21	0.82	mg/Kg-dry	1	6/16/2016 1:04 PM
Sodium	210		1.7	4.1	41	mg/Kg-dry	1	6/16/2016 1:04 PM
Vanadium	51		1.0	8.2	21	mg/Kg-dry	10	6/16/2016 2:01 PM
Zinc	50		0.32	0.41	4.1	mg/Kg-dry	1	6/16/2016 1:04 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.41	G	0.040	0.041	0.16	mg/Kg-dry	10	7/6/2016 3:20 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
2-Methylnaphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Acenaphthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Acenaphthylene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 2:10:00 PM
Project:	Camp Hero		
Lab ID:	1606286-008	**Matrix:**	Soil
Client Sample ID:	WDS-SB24-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Benz(a)anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Benzo(a)pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Benzo(b)fluoranthene	0.00082	UY	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Benzo(g,h,i)perylene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Benzo(k)fluoranthene	0.00082	UY	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Chrysene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Dibenzo(a,h)anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Fluoranthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Fluorene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Indeno(1,2,3-cd)pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Naphthalene	0.00094		0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Phenanthrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Pyrene	0.0010		0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 6:04 PM
Surr: 2-Fluorobiphenyl	83.9			46-115		%Rec	1	7/20/2016 6:04 PM
Surr: Nitrobenzene-d5	106			44-125		%Rec	1	7/20/2016 6:04 PM
Surr: Terphenyl-d14	109			58-133		%Rec	1	7/20/2016 6:04 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:50:00 PM
Project:	Camp Hero		
Lab ID:	1606286-009	**Matrix:**	Soil
Client Sample ID:	WDS-SB25-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:10 PM
Aroclor 1221	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:10 PM
Aroclor 1232	0.0077	U	0.0052	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:10 PM
Aroclor 1242	0.0077	U	0.0043	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:10 PM
Aroclor 1248	0.0077	U	0.0041	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:10 PM
Aroclor 1254	0.0077	U	0.0049	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:10 PM
Aroclor 1260	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:10 PM
Aroclor 1262	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:10 PM
Aroclor 1268	0.0077	U	0.0028	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:10 PM
Surr: Tetrachloro-m-xylene	69.7			44-130		%Rec	1	6/16/2016 7:10 PM
Surr: Decachlorobiphenyl	90.2			60-125		%Rec	1	6/16/2016 7:10 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	4,100		57	150	380	mg/Kg-dry	100	6/16/2016 3:00 PM
Antimony	5.0		0.29	0.38	0.76	mg/Kg-dry	1	6/16/2016 1:05 PM
Arsenic	3.7		0.55	0.76	1.5	mg/Kg-dry	1	6/16/2016 1:05 PM
Barium	32		0.23	3.8	7.6	mg/Kg-dry	1	6/16/2016 1:05 PM
Beryllium	0.62		0.0096	0.038	0.19	mg/Kg-dry	1	6/16/2016 1:05 PM
Cadmium	0.048	J	0.025	0.038	0.19	mg/Kg-dry	1	6/16/2016 1:05 PM
Calcium	870		2.2	7.6	38	mg/Kg-dry	1	6/16/2016 1:05 PM
Chromium	12	G	0.063	0.30	0.38	mg/Kg-dry	1	6/22/2016 2:36 PM
Cobalt	5.1		0.068	0.19	0.76	mg/Kg-dry	1	6/16/2016 1:05 PM
Copper	27		0.32	0.76	3.8	mg/Kg-dry	1	6/16/2016 1:05 PM
Iron	4,700		24	38	110	mg/Kg-dry	10	6/16/2016 2:02 PM
Lead	3.9		0.47	0.76	3.8	mg/Kg-dry	1	6/16/2016 1:05 PM
Magnesium	1,000		27	38	380	mg/Kg-dry	10	6/16/2016 2:02 PM
Manganese	330		1.4	1.9	7.6	mg/Kg-dry	10	6/22/2016 3:06 PM
Nickel	9.7		0.21	0.76	3.8	mg/Kg-dry	1	6/16/2016 1:05 PM
Potassium	850		1.8	7.6	15	mg/Kg-dry	1	6/16/2016 1:05 PM
Selenium	1.1	U	0.88	1.1	1.5	mg/Kg-dry	1	6/16/2016 1:05 PM
Silver	0.19	U	0.062	0.19	0.76	mg/Kg-dry	1	6/16/2016 1:05 PM
Sodium	100		1.6	3.8	38	mg/Kg-dry	1	6/16/2016 1:05 PM
Vanadium	24		0.096	0.76	1.9	mg/Kg-dry	1	6/16/2016 1:05 PM
Zinc	19		0.29	0.38	3.8	mg/Kg-dry	1	6/16/2016 1:05 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.11	JG	0.036	0.037	0.15	mg/Kg-dry	10	7/6/2016 3:21 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
2-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Acenaphthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Acenaphthylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM

RTI Laboratories - Analytical Report

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:50:00 PM
Project:	Camp Hero		
Lab ID:	1606286-009	**Matrix:**	Soil
Client Sample ID:	WDS-SB25-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Benz(a)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Benzo(a)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Benzo(b)fluoranthene	0.00078	UY	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Benzo(g,h,i)perylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Benzo(k)fluoranthene	0.00078	UY	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Chrysene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Dibenzo(a,h)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Fluorene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Indeno(1,2,3-cd)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Naphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Phenanthrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/20/2016 7:28 PM
Surr: 2-Fluorobiphenyl	88.7			46-115		%Rec	1	7/20/2016 7:28 PM
Surr: Nitrobenzene-d5	107			44-125		%Rec	1	7/20/2016 7:28 PM
Surr: Terphenyl-d14	107			58-133		%Rec	1	7/20/2016 7:28 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 4:20:00 PM
Project:	Camp Hero		
Lab ID:	1606286-010	**Matrix:**	Soil
Client Sample ID:	WDS-SB26-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0082	U	0.0037	0.0082	0.041	mg/Kg-dry	1	6/16/2016 5:06 AM
Aroclor 1221	0.0082	U	0.0037	0.0082	0.041	mg/Kg-dry	1	6/16/2016 5:06 AM
Aroclor 1232	0.0082	U	0.0055	0.0082	0.041	mg/Kg-dry	1	6/16/2016 5:06 AM
Aroclor 1242	0.0082	U	0.0046	0.0082	0.041	mg/Kg-dry	1	6/16/2016 5:06 AM
Aroclor 1248	0.0082	U	0.0043	0.0082	0.041	mg/Kg-dry	1	6/16/2016 5:06 AM
Aroclor 1254	0.0082	U	0.0052	0.0082	0.041	mg/Kg-dry	1	6/16/2016 5:06 AM
Aroclor 1260	0.0082	U	0.0036	0.0082	0.041	mg/Kg-dry	1	6/16/2016 5:06 AM
Aroclor 1262	0.0082	U	0.0036	0.0082	0.041	mg/Kg-dry	1	6/16/2016 5:06 AM
Aroclor 1268	0.0082	U	0.0030	0.0082	0.041	mg/Kg-dry	1	6/16/2016 5:06 AM
Surr: Tetrachloro-m-xylene	76.1			44-130		%Rec	1	6/16/2016 5:06 AM
Surr: Decachlorobiphenyl	89.0			60-125		%Rec	1	6/16/2016 5:06 AM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	17,000		61	160	410	mg/Kg-dry	100	7/13/2016 2:30 PM
Antimony	6.9		0.31	0.41	0.81	mg/Kg-dry	1	7/13/2016 12:48 PM
Arsenic	4.8		0.59	0.81	1.6	mg/Kg-dry	1	7/13/2016 12:48 PM
Barium	65		0.24	4.1	8.1	mg/Kg-dry	1	7/13/2016 12:48 PM
Beryllium	0.48		0.010	0.041	0.20	mg/Kg-dry	1	7/13/2016 12:48 PM
Cadmium	0.30		0.027	0.041	0.20	mg/Kg-dry	1	7/13/2016 12:48 PM
Calcium	1,400		2.4	8.1	41	mg/Kg-dry	1	7/13/2016 12:48 PM
Chromium	20		0.067	0.33	0.41	mg/Kg-dry	1	7/13/2016 12:48 PM
Cobalt	6.9		0.073	0.20	0.81	mg/Kg-dry	1	7/13/2016 12:48 PM
Copper	49		0.34	0.81	4.1	mg/Kg-dry	1	7/13/2016 12:48 PM
Iron	23,000		250	410	1,200	mg/Kg-dry	100	7/13/2016 2:30 PM
Lead	38		0.51	0.81	4.1	mg/Kg-dry	1	7/13/2016 12:48 PM
Magnesium	3,400		28	41	410	mg/Kg-dry	10	7/13/2016 1:29 PM
Manganese	320		1.5	2.0	8.1	mg/Kg-dry	10	7/13/2016 1:29 PM
Nickel	11		0.23	0.81	4.1	mg/Kg-dry	1	7/13/2016 12:48 PM
Potassium	2,000		19	81	160	mg/Kg-dry	10	7/13/2016 1:29 PM
Selenium	1.2	U	0.95	1.2	1.6	mg/Kg-dry	1	7/13/2016 12:48 PM
Silver	0.20	U	0.066	0.20	0.81	mg/Kg-dry	1	7/13/2016 12:48 PM
Sodium	160		1.7	4.1	41	mg/Kg-dry	1	7/13/2016 12:48 PM
Vanadium	29		0.10	0.81	2.0	mg/Kg-dry	1	7/13/2016 12:48 PM
Zinc	41		0.31	0.41	4.1	mg/Kg-dry	1	7/13/2016 12:48 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.15	JG	0.040	0.041	0.16	mg/Kg-dry	10	7/6/2016 3:26 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
2-Methylnaphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Acenaphthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Acenaphthylene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM

RTI Laboratories - Analytical Report

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 4:20:00 PM
Project:	Camp Hero		
Lab ID:	1606286-010	**Matrix:**	Soil
Client Sample ID:	WDS-SB26-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Benz(a)anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Benzo(a)pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Benzo(b)fluoranthene	0.00082	UY	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Benzo(g,h,i)perylene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Benzo(k)fluoranthene	0.00082	UY	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Chrysene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Dibenzo(a,h)anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Fluoranthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Fluorene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Indeno(1,2,3-cd)pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Naphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Phenanthrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/20/2016 7:55 PM
Surr: 2-Fluorobiphenyl	79.4			46-115		%Rec	1	7/20/2016 7:55 PM
Surr: Nitrobenzene-d5	102			44-125		%Rec	1	7/20/2016 7:55 PM
Surr: Terphenyl-d14	102			58-133		%Rec	1	7/20/2016 7:55 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:05:00 PM
Project:	Camp Hero		
Lab ID:	1606286-011	**Matrix:**	Soil
Client Sample ID:	WDS-SB27-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0084	U	0.0038	0.0084	0.042	mg/Kg-dry	1	6/16/2016 5:31 AM
Aroclor 1221	0.0084	U	0.0038	0.0084	0.042	mg/Kg-dry	1	6/16/2016 5:31 AM
Aroclor 1232	0.0084	U	0.0057	0.0084	0.042	mg/Kg-dry	1	6/16/2016 5:31 AM
Aroclor 1242	0.0084	U	0.0047	0.0084	0.042	mg/Kg-dry	1	6/16/2016 5:31 AM
Aroclor 1248	0.0084	U	0.0044	0.0084	0.042	mg/Kg-dry	1	6/16/2016 5:31 AM
Aroclor 1254	0.0084	U	0.0053	0.0084	0.042	mg/Kg-dry	1	6/16/2016 5:31 AM
Aroclor 1260	0.0084	U	0.0037	0.0084	0.042	mg/Kg-dry	1	6/16/2016 5:31 AM
Aroclor 1262	0.0084	U	0.0037	0.0084	0.042	mg/Kg-dry	1	6/16/2016 5:31 AM
Aroclor 1268	0.0084	U	0.0031	0.0084	0.042	mg/Kg-dry	1	6/16/2016 5:31 AM
Surr: Tetrachloro-m-xylene	47.0			44-130		%Rec	1	6/16/2016 5:31 AM
Surr: Decachlorobiphenyl	55.5	Q		60-125		%Rec	1	6/16/2016 5:31 AM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	13,000		63	170	420	mg/Kg-dry	100	6/16/2016 3:01 PM
Antimony	1.9		0.31	0.42	0.83	mg/Kg-dry	1	6/16/2016 1:07 PM
Arsenic	1.4	J	0.60	0.83	1.7	mg/Kg-dry	1	6/16/2016 1:07 PM
Barium	24		0.25	4.2	8.3	mg/Kg-dry	1	6/16/2016 1:07 PM
Beryllium	0.39		0.011	0.042	0.21	mg/Kg-dry	1	6/16/2016 1:07 PM
Cadmium	0.035	J	0.027	0.042	0.21	mg/Kg-dry	1	6/16/2016 1:07 PM
Calcium	720		2.5	8.3	42	mg/Kg-dry	1	6/16/2016 1:07 PM
Chromium	13	G	0.069	0.33	0.42	mg/Kg-dry	1	6/22/2016 2:38 PM
Cobalt	2.0		0.075	0.21	0.83	mg/Kg-dry	1	6/16/2016 1:07 PM
Copper	25		0.35	0.83	4.2	mg/Kg-dry	1	6/16/2016 1:07 PM
Iron	8,400		26	42	130	mg/Kg-dry	10	6/16/2016 2:19 PM
Lead	4.9		0.52	0.83	4.2	mg/Kg-dry	1	6/16/2016 1:07 PM
Magnesium	1,200		2.9	4.2	42	mg/Kg-dry	1	6/22/2016 2:38 PM
Manganese	98		0.15	0.21	0.83	mg/Kg-dry	1	6/22/2016 2:38 PM
Nickel	6.7		0.24	0.83	4.2	mg/Kg-dry	1	6/16/2016 1:07 PM
Potassium	640		1.9	8.3	17	mg/Kg-dry	1	6/16/2016 1:07 PM
Selenium	1.3	U	0.97	1.3	1.7	mg/Kg-dry	1	6/16/2016 1:07 PM
Silver	0.21	U	0.068	0.21	0.83	mg/Kg-dry	1	6/16/2016 1:07 PM
Sodium	100		1.7	4.2	42	mg/Kg-dry	1	6/16/2016 1:07 PM
Vanadium	21		0.11	0.83	2.1	mg/Kg-dry	1	6/16/2016 1:07 PM
Zinc	16		0.32	0.42	4.2	mg/Kg-dry	1	6/16/2016 1:07 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.13	JG	0.040	0.041	0.16	mg/Kg-dry	10	7/6/2016 3:27 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
2-Methylnaphthalene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Acenaphthene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Acenaphthylene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM

RTI Laboratories - Analytical Report

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:05:00 PM
Project:	Camp Hero		
Lab ID:	1606286-011	**Matrix:**	Soil
Client Sample ID:	WDS-SB27-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Benz(a)anthracene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Benzo(a)pyrene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Benzo(b)fluoranthene	0.00084	UY	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Benzo(g,h,i)perylene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Benzo(k)fluoranthene	0.00084	UY	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Chrysene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Dibenzo(a,h)anthracene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Fluoranthene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Fluorene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Indeno(1,2,3-cd)pyrene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Naphthalene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Phenanthrene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Pyrene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/20/2016 8:23 PM
Surr: 2-Fluorobiphenyl	80.5			46-115		%Rec	1	7/20/2016 8:23 PM
Surr: Nitrobenzene-d5	98.2			44-125		%Rec	1	7/20/2016 8:23 PM
Surr: Terphenyl-d14	96.8			58-133		%Rec	1	7/20/2016 8:23 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	21		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 3:05:00 PM
Project: Camp Hero
Lab ID: 1606286-012 **Matrix:** Soil
Client Sample ID: WDS-SB27-08 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0084	U	0.0038	0.0084	0.041	mg/Kg-dry	1	7/7/2016 6:02 AM
Aroclor 1221	0.0084	U	0.0038	0.0084	0.041	mg/Kg-dry	1	7/7/2016 6:02 AM
Aroclor 1232	0.0084	U	0.0056	0.0084	0.041	mg/Kg-dry	1	7/7/2016 6:02 AM
Aroclor 1242	0.0084	U	0.0047	0.0084	0.041	mg/Kg-dry	1	7/7/2016 6:02 AM
Aroclor 1248	0.0084	U	0.0044	0.0084	0.041	mg/Kg-dry	1	7/7/2016 6:02 AM
Aroclor 1254	0.0084	U	0.0053	0.0084	0.041	mg/Kg-dry	1	7/7/2016 6:02 AM
Aroclor 1260	0.0084	U	0.0037	0.0084	0.041	mg/Kg-dry	1	7/7/2016 6:02 AM
Aroclor 1262	0.0084	U	0.0037	0.0084	0.041	mg/Kg-dry	1	7/7/2016 6:02 AM
Aroclor 1268	0.0084	U	0.0031	0.0084	0.041	mg/Kg-dry	1	7/7/2016 6:02 AM
Surr: Tetrachloro-m-xylene	64.6			44-130		%Rec	1	7/7/2016 6:02 AM
Surr: Decachlorobiphenyl	69.9			60-125		%Rec	1	7/7/2016 6:02 AM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	13,000		61	160	410	mg/Kg-dry	100	6/16/2016 3:20 PM
Antimony	2.4		0.31	0.41	0.82	mg/Kg-dry	1	6/16/2016 1:16 PM
Arsenic	1.4	J	0.59	0.82	1.6	mg/Kg-dry	1	6/16/2016 1:16 PM
Barium	22		0.24	4.1	8.2	mg/Kg-dry	1	6/16/2016 1:16 PM
Beryllium	0.38		0.010	0.041	0.20	mg/Kg-dry	1	6/16/2016 1:16 PM
Cadmium	0.045	J	0.027	0.041	0.20	mg/Kg-dry	1	6/16/2016 1:16 PM
Calcium	780		2.4	8.2	41	mg/Kg-dry	1	6/16/2016 1:16 PM
Chromium	12	G	0.067	0.33	0.41	mg/Kg-dry	1	6/22/2016 2:46 PM
Cobalt	2.6		0.074	0.20	0.82	mg/Kg-dry	1	6/16/2016 1:16 PM
Copper	24		0.34	0.82	4.1	mg/Kg-dry	1	6/16/2016 1:16 PM
Iron	10,000		26	41	120	mg/Kg-dry	10	6/16/2016 2:30 PM
Lead	3.9	J	0.51	0.82	4.1	mg/Kg-dry	1	6/16/2016 1:16 PM
Magnesium	1,300		2.9	4.1	41	mg/Kg-dry	1	6/16/2016 1:16 PM
Manganese	110		0.15	0.20	0.82	mg/Kg-dry	1	6/22/2016 2:46 PM
Nickel	7.4		0.23	0.82	4.1	mg/Kg-dry	1	6/16/2016 1:16 PM
Potassium	610		1.9	8.2	16	mg/Kg-dry	1	6/16/2016 1:16 PM
Selenium	1.2	U	0.95	1.2	1.6	mg/Kg-dry	1	6/16/2016 1:16 PM
Silver	0.20	U	0.067	0.20	0.82	mg/Kg-dry	1	6/16/2016 1:16 PM
Sodium	95		1.7	4.1	41	mg/Kg-dry	1	6/16/2016 1:16 PM
Vanadium	18		0.10	0.82	2.0	mg/Kg-dry	1	6/16/2016 1:16 PM
Zinc	15		0.32	0.41	4.1	mg/Kg-dry	1	6/16/2016 1:16 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.082	JG	0.040	0.042	0.17	mg/Kg-dry	10	7/6/2016 3:28 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
2-Methylnaphthalene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Acenaphthene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Acenaphthylene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM

RTI Laboratories - Analytical Report

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:05:00 PM
Project:	Camp Hero		
Lab ID:	1606286-012	**Matrix:**	Soil
Client Sample ID:	WDS-SB27-08 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Benz(a)anthracene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Benzo(a)pyrene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Benzo(b)fluoranthene	0.0015	Y	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Benzo(g,h,i)perylene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Benzo(k)fluoranthene	0.00085	UY	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Chrysene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Dibenzo(a,h)anthracene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Fluoranthene	0.0012		0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Fluorene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Indeno(1,2,3-cd)pyrene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Naphthalene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Phenanthrene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Pyrene	0.0012		0.00085	0.00085	0.00085	mg/Kg-dry	1	7/20/2016 8:50 PM
Surr: 2-Fluorobiphenyl	95.2			46-115		%Rec	1	7/20/2016 8:50 PM
Surr: Nitrobenzene-d5	116			44-125		%Rec	1	7/20/2016 8:50 PM
Surr: Terphenyl-d14	112			58-133		%Rec	1	7/20/2016 8:50 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	21		1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

RTI Laboratories - DATES REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606286-001A	H11-SS01-01	6/7/2016 1:30 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/17/2016 10:04 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/20/2016 8:41 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	7/20/2016 7:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	7/22/2016 3:14 PM
1606286-001B	H11-SS01-01	6/7/2016 1:30 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 4:44 PM
1606286-001C	H11-SS01-01	6/7/2016 1:30 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:15 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 12:22 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:50 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:34 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:09 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606286-002A	H11-SB01-04	6/7/2016 1:40 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/17/2016 10:32 PM
1606286-002B	H11-SB01-04	6/7/2016 1:40 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 10:24 AM
1606286-002C	H11-SB01-04	6/7/2016 1:40 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:16 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 12:24 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:52 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:41 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:11 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606286-003A	H11-SS02-01	6/7/2016 12:50 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/17/2016 11:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	7/20/2016 6:32 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	7/22/2016 2:49 PM
1606286-003B	H11-SS02-01	6/7/2016 12:50 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 1:27 AM

RTI Laboratories - DATES REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606286-003C	H11-SS02-01	6/7/2016 12:50 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:16 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 12:25 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:53 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:51 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:17 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606286-004A	H11-SB02-04	6/7/2016 1:00 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/25/2016 2:27 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/25/2016 2:54 AM
1606286-004B	H11-SB02-04	6/7/2016 1:00 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 1:51 AM
1606286-004C	H11-SB02-04	6/7/2016 1:00 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:17 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 12:27 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:55 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:52 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:19 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606286-005A	H11-SB02-06	6/7/2016 1:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/17/2016 11:57 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/25/2016 3:23 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/25/2016 3:51 AM
1606286-005B	H11-SB02-06	6/7/2016 1:10 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 10:48 AM
1606286-005C	H11-SB02-06	6/7/2016 1:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:18 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 12:28 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:56 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:54 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:20 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM

RTI Laboratories - DATES REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606286-006A	WDS-SB22-05	6/7/2016 3:35 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/18/2016 12:24 AM
1606286-006B	WDS-SB22-05	6/7/2016 3:35 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 5:57 PM
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 5:13 AM
1606286-006C	WDS-SB22-05	6/7/2016 3:35 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:19 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 12:30 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:58 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:55 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:21 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 3:04 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606286-007A	WDS-SB23-05	6/7/2016 2:30 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/18/2016 12:53 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/25/2016 4:20 AM
1606286-007B	WDS-SB23-05	6/7/2016 2:30 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 6:21 PM
1606286-007C	WDS-SB23-05	6/7/2016 2:30 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:19 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:02 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:59 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:57 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:23 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606286-008A	WDS-SB24-04	6/7/2016 2:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/24/2016 2:21 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	7/20/2016 6:04 PM
1606286-008B	WDS-SB24-04	6/7/2016 2:10 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 6:45 PM
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 5:37 AM

RTI Laboratories - DATES REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606286-008C	WDS-SB24-04	6/7/2016 2:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:20 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:04 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:01 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 3:23 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:24 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 3:05 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606286-009A	WDS-SB25-08	6/7/2016 3:50 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/24/2016 2:50 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	7/20/2016 7:28 PM
1606286-009B	WDS-SB25-08	6/7/2016 3:50 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 7:10 PM
1606286-009C	WDS-SB25-08	6/7/2016 3:50 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:21 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:05 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:02 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 3:00 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:36 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 3:06 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606286-010A	WDS-SB26-05	6/7/2016 4:20 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/23/2016 7:16 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	7/20/2016 7:55 PM
1606286-010B	WDS-SB26-05	6/7/2016 4:20 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 5:06 AM
1606286-010C	WDS-SB26-05	6/7/2016 4:20 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:26 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 12:48 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:29 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:30 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM

RTI Laboratories - DATES REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606286-011A	WDS-SB27-08	6/7/2016 3:05 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/24/2016 3:47 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	7/20/2016 8:23 PM
1606286-011B	WDS-SB27-08	6/7/2016 3:05 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 5:31 AM
1606286-011C	WDS-SB27-08	6/7/2016 3:05 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:27 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:07 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:19 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 3:01 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:38 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606286-012A	WDS-SB27-08 DUP	6/7/2016 3:05 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/24/2016 4:15 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	7/20/2016 8:50 PM
1606286-012B	WDS-SB27-08 DUP	6/7/2016 3:05 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 7:34 PM
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 6:02 AM
1606286-012C	WDS-SB27-08 DUP	6/7/2016 3:05 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:28 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:16 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:30 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 3:20 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:46 PM
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40137

Sample ID:	MB-40137	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	PBS	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682954

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40137	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	LCSS	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	26	5.0	25	0	104	74	119				
Antimony	24	1.0	25	0	96.0	79	114				
Arsenic	23	2.0	25	0	90.4	82	111				
Barium	24	10	25	0	94.4	83	113				
Beryllium	24	0.25	25	0	94.8	83	113				
Cadmium	24	0.25	25	0	96.4	82	113				
Calcium	240	50	250	0	97.4	81	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40137

Sample ID:	LCS-40137	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	LCSS	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	24	0.50	25	0	96.8	85	113				
Cobalt	25	1.0	25	0	98.3	85	112				
Copper	25	5.0	25	0	98.1	81	117				
Iron	240	15	250	0	97.6	81	118				
Lead	24	5.0	25	0	94.3	81	112				
Magnesium	230	50	250	0	93.3	78	115				
Manganese	26	1.0	25	0	103	84	114				
Nickel	28	5.0	25	0	110	83	113				
Potassium	230	20	250	0	90.7	81	116				
Selenium	25	2.0	25	0	98.9	78	111				
Silver	24	1.0	25	0	95.0	82	112				
Sodium	240	50	250	0	95.0	83	118				
Vanadium	24	2.5	25	0	95.4	82	114				
Zinc	25	5.0	25	0	101	82	113				

Sample ID:	1606293-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	ZZZZZZ	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682958

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9,200	3.8	19	8,300	4,750	74	119				Q
Antimony	22	0.76	19	3.2	99.3	79	114				
Arsenic	20	1.5	19	2.0	94.7	82	111				
Barium	60	7.6	19	40	106	83	113				
Beryllium	19	0.19	19	0.38	96.7	83	113				
Cadmium	19	0.19	19	0	101	82	113				
Calcium	1,400	38	190	1,000	193	81	116				Q
Cobalt	23	0.76	19	3.3	101	85	112				
Copper	96	3.8	19	67	152	81	117				Q
Iron	22,000	11	190	23,000	-253	81	118				JQ
Lead	20	3.8	19	3.0	91.5	81	112				
Magnesium	2,600	38	190	2,300	161	78	115				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40137

Sample ID:	1606293-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	ZZZZZZ	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682958

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nickel	45	3.8	19	16	153	83	113				Q
Potassium	2,100	15	190	1,600	269	81	116				JQ
Selenium	4.5	1.5	19	0	23.8	78	111				Q
Silver	19	0.76	19	0	101	82	112				
Sodium	310	38	190	110	107	83	118				
Vanadium	40	1.9	19	18	119	82	114				JQ
Zinc	46	3.8	19	26	104	82	113				

Sample ID:	1606293-005FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	ZZZZZZ	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682959

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	10,000	3.7	19	8,300	9,910	74	119	9,200	9.88	20	Q
Antimony	22	0.75	19	3.2	99.0	79	114	22	1.28	20	
Arsenic	19	1.5	19	2.0	92.8	82	111	20	2.99	20	
Barium	67	7.5	19	40	145	83	113	60	11.1	20	Q
Beryllium	20	0.19	19	0.38	104	83	113	19	5.49	20	
Cadmium	19	0.19	19	0	103	82	113	19	0.504	20	
Calcium	1,400	37	190	1,000	210	81	116	1,400	1.91	20	Q
Cobalt	22	0.75	19	3.3	102	85	112	23	0.817	20	
Copper	91	3.7	19	67	128	81	117	96	5.18	20	Q
Iron	23,000	11	190	23,000	60.2	81	118	22,000	2.63	20	JQ
Lead	20	3.7	19	3.0	89.7	81	112	20	2.82	20	
Magnesium	2,900	37	190	2,300	331	78	115	2,600	11.3	20	JQ
Nickel	40	3.7	19	16	129	83	113	45	11.9	20	Q
Potassium	2,100	15	190	1,600	283	81	116	2,100	0.900	20	JQ
Selenium	5.8	1.5	19	0	31.1	78	111	4.5	25.4	20	RQ
Silver	19	0.75	19	0	102	82	112	19	0.382	20	
Sodium	320	37	190	110	114	83	118	310	2.96	20	
Vanadium	40	1.9	19	18	118	82	114	40	1.13	20	JQ
Zinc	46	3.7	19	26	104	82	113	46	0.455	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40137

Sample ID:	MB-40137	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86852
Client ID:	PBS	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/22/2016	SeqNo:	1685249

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	0.25	0.50									JG
Manganese	1.0	1.0									U

Sample ID:	LCS-40137	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86852
Client ID:	LCSS	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/22/2016	SeqNo:	1685250

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	26	0.50	25	0	103	85	113				G
Manganese	26	1.0	25	0	106	84	114				

Sample ID:	1606293-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86852
Client ID:	ZZZZZZ	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/22/2016	SeqNo:	1685284

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	45	0.38	19	21	130	85	113				QG
Manganese	190	0.76	19	180	48.2	84	114				JQ

Sample ID:	1606293-005FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86852
Client ID:	ZZZZZZ	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/22/2016	SeqNo:	1685285

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	42	0.37	19	21	114	85	113	45	7.88	20	QG
Manganese	210	0.75	19	180	156	84	114	190	9.84	20	JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40143**

Sample ID:	LCS-40143	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86731
Client ID:	LCSS	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/15/2016	SeqNo:	1682619

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.033	0.17	0	82.7	46	129				
Aroclor 1260	0.16	0.033	0.17	0	95.0	45	134				
Surr: Tetrachloro-m-xylene	6.1		8.308		73.6	44	130				
Surr: Decachlorobiphenyl	7.2		8.308		87.0	40	135				

Sample ID:	MB-40143	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86731
Client ID:	PBS	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/15/2016	SeqNo:	1682621

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	5.9		8.305		71.4	44	130				
Surr: Decachlorobiphenyl	6.3		8.305		75.9	60	125				

Sample ID:	1606286-001BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/14/2016	RunNo:	86760
Client ID:	H11-SS01-01MS1	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.18	0.039	0.20	0	92.7	46	129				
Aroclor 1260	0.18	0.039	0.20	0	93.3	45	134				
Surr: Tetrachloro-m-xylene	9.1		9.769		93.0	44	130				
Surr: Decachlorobiphenyl	9.1		9.769		92.9	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40143

Sample ID:	1606286-001BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/14/2016	RunNo:	86760
Client ID:	H11-SS01-01SD1	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683225

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.16	0.039	0.20	0	82.3	46	129	0.18	11.6	25	
Aroclor 1260	0.17	0.039	0.20	0	87.7	45	134	0.18	5.81	25	
Surr: Tetrachloro-m-xylene	6.9		9.801		69.9	44	130		0	25	
Surr: Decachlorobiphenyl	8.0		9.801		81.8	40	135		0	25	

Sample ID:	LCS-40143	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86907
Client ID:	LCSS	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/15/2016	SeqNo:	1686263

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.033	0.17	0	89.8	46	129				
Aroclor 1260	0.16	0.033	0.17	0	98.2	45	134				
Surr: Tetrachloro-m-xylene	6.0		8.308		72.3	44	130				
Surr: Decachlorobiphenyl	7.4		8.308		89.6	40	135				

Sample ID:	MB-40143	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86907
Client ID:	PBS	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/15/2016	SeqNo:	1686265

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	5.8		8.305		69.8	44	130				
Surr: Decachlorobiphenyl	6.5		8.305		78.7	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40155**

Sample ID:	**MB-40155**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/14/2016**	RunNo:	**86796**
Client ID:	**PBS**	Batch ID:	**40155**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/20/2016**	SeqNo:	**1684076**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benz(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	13		16.60		78.2	46	115				
Surr: Nitrobenzene-d5	14		16.60		85.1	44	125				
Surr: Terphenyl-d14	16		16.60		94.2	58	133				

Sample ID:	**LCS-40155**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/14/2016**	RunNo:	**86796**
Client ID:	**LCSS**	Batch ID:	**40155**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/20/2016**	SeqNo:	**1684077**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.011	0.00066	0.013	0	79.6	43	111				
2-Methylnaphthalene	0.012	0.00066	0.013	0	93.2	39	114				
Acenaphthene	0.011	0.00066	0.013	0	86.0	44	111				
Acenaphthylene	0.011	0.00066	0.013	0	85.0	39	116				
Anthracene	0.011	0.00066	0.013	0	86.2	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40155**

Sample ID:	**LCS-40155**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/14/2016**	RunNo:	**86796**
Client ID:	**LCSS**	Batch ID:	**40155**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/20/2016**	SeqNo:	**1684077**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.012	0.00066	0.013	0	93.6	54	122				
Benzo(a)pyrene	0.011	0.00066	0.013	0	86.9	50	125				
Benzo(b)fluoranthene	0.013	0.00066	0.013	0	101	53	128				
Benzo(g,h,i)perylene	0.012	0.00066	0.013	0	94.2	49	127				
Benzo(k)fluoranthene	0.011	0.00066	0.013	0	83.6	56	123				
Chrysene	0.012	0.00066	0.013	0	88.8	57	118				
Dibenzo(a,h)anthracene	0.015	0.00066	0.013	0	115	50	129				
Fluoranthene	0.013	0.00066	0.013	0	95.2	55	119				
Fluorene	0.012	0.00066	0.013	0	87.6	47	114				
Indeno(1,2,3-cd)pyrene	0.013	0.00066	0.013	0	102	49	130				
Naphthalene	0.012	0.00066	0.013	0	88.6	38	111				
Phenanthrene	0.011	0.00066	0.013	0	82.3	49	113				
Pyrene	0.011	0.00066	0.013	0	80.4	55	117				
Surr: 2-Fluorobiphenyl	13		16.54		80.4	46	115				
Surr: Nitrobenzene-d5	13		16.54		75.9	44	125				
Surr: Terphenyl-d14	15		16.54		92.7	58	133				

Sample ID:	**1606293-005DMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/14/2016**	RunNo:	**86796**
Client ID:	**ZZZZZZ**	Batch ID:	**40155**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/20/2016**	SeqNo:	**1684082**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00078	0.015	0	82.0	43	111				
2-Methylnaphthalene	0.015	0.00078	0.015	0	94.1	39	114				
Acenaphthene	0.018	0.00078	0.015	0.0033	97.1	44	111				
Acenaphthylene	0.015	0.00078	0.015	0.0022	84.9	39	116				
Anthracene	0.018	0.00078	0.015	0.0029	97.6	50	114				
Benz(a)anthracene	0.026	0.00078	0.015	0.017	60.7	54	122				
Benzo(a)pyrene	0.023	0.00078	0.015	0.011	77.3	50	125				
Benzo(b)fluoranthene	0.038	0.00078	0.015	0.021	112	53	128				
Benzo(g,h,i)perylene	0.016	0.00078	0.015	0.0053	71.3	49	127				
Benzo(k)fluoranthene	0.017	0.00078	0.015	0.0078	61.2	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40155**

Sample ID:	1606293-005DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/14/2016	RunNo:	86796
Client ID:	ZZZZZZ	Batch ID:	40155	TestNo:	SW8270C	SW3550C		Analysis Date:	6/20/2016	SeqNo:	1684082

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.030	0.00078	0.015	0.019	70.5	57	118				
Dibenzo(a,h)anthracene	0.017	0.00078	0.015	0.0019	96.5	50	129				
Fluoranthene	0.051	0.00078	0.015	0.032	122	55	119				JQ
Fluorene	0.017	0.00078	0.015	0.0024	97.0	47	114				
Indeno(1,2,3-cd)pyrene	0.018	0.00078	0.015	0.0057	82.3	49	130				
Naphthalene	0.014	0.00078	0.015	0.00097	87.3	38	111				
Phenanthrene	0.025	0.00078	0.015	0.0077	111	49	113				
Pyrene	0.041	0.00078	0.015	0.027	90.4	55	117				J
Surr: 2-Fluorobiphenyl	15		19.38		76.1	46	115				
Surr: Nitrobenzene-d5	16		19.38		84.0	44	125				
Surr: Terphenyl-d14	18		19.38		93.1	58	133				

Sample ID:	1606293-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/14/2016	RunNo:	86796
Client ID:	ZZZZZZ	Batch ID:	40155	TestNo:	SW8270C	SW3550C		Analysis Date:	6/20/2016	SeqNo:	1684083

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00079	0.016	0	81.4	43	111	0.013	0.289	25	
2-Methylnaphthalene	0.015	0.00079	0.016	0	93.4	39	114	0.015	0.250	25	
Acenaphthene	0.017	0.00079	0.016	0.0033	89.6	44	111	0.018	5.69	25	
Acenaphthylene	0.014	0.00079	0.016	0.0022	78.3	39	116	0.015	5.97	25	
Anthracene	0.017	0.00079	0.016	0.0029	87.6	50	114	0.018	8.14	25	
Benz(a)anthracene	0.023	0.00079	0.016	0.017	39.6	54	122	0.026	12.9	25	Q
Benzo(a)pyrene	0.019	0.00079	0.016	0.011	54.5	50	125	0.023	16.5	25	
Benzo(b)fluoranthene	0.031	0.00079	0.016	0.021	66.6	53	128	0.038	19.9	25	
Benzo(g,h,i)perylene	0.014	0.00079	0.016	0.0053	56.0	49	127	0.016	15.1	25	
Benzo(k)fluoranthene	0.014	0.00079	0.016	0.0078	38.0	56	123	0.017	22.8	25	Q
Chrysene	0.021	0.00079	0.016	0.019	8.61	57	118	0.030	37.5	25	RQ
Dibenzo(a,h)anthracene	0.015	0.00079	0.016	0.0019	84.6	50	129	0.017	10.8	25	
Fluoranthene	0.038	0.00079	0.016	0.032	35.0	55	119	0.051	30.2	25	RQ
Fluorene	0.017	0.00079	0.016	0.0024	93.0	47	114	0.017	2.81	25	
Indeno(1,2,3-cd)pyrene	0.016	0.00079	0.016	0.0057	63.8	49	130	0.018	16.2	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40155**

Sample ID:	**1606293-005DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/14/2016**	RunNo:	**86796**
Client ID:	**ZZZZZZ**	Batch ID:	**40155**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/20/2016**	SeqNo:	**1684083**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.014	0.00079	0.016	0.00097	82.7	38	111	0.014	4.08	25	
Phenanthrene	0.027	0.00079	0.016	0.0077	123	49	113	0.025	8.11	25	Q
Pyrene	0.030	0.00079	0.016	0.027	19.8	55	117	0.041	30.6	25	RQ
Surr: 2-Fluorobiphenyl	15		19.58		74.3	46	115		0	25	
Surr: Nitrobenzene-d5	16		19.58		80.8	44	125		0	25	
Surr: Terphenyl-d14	18		19.58		89.7	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40157**

Sample ID:	MB-40157	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	PBS	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695821

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	0.19	1.0									J
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40157	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	LCSS	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695822

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	27	5.0	25	0	107	74	119				
Antimony	25	1.0	25	0	98.8	79	114				
Arsenic	23	2.0	25	0	92.6	82	111				
Barium	24	10	25	0	94.2	83	113				
Beryllium	24	0.25	25	0	95.6	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40157

Sample ID:	LCS-40157	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	LCSS	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695822

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	92.9	82	113				
Calcium	230	50	250	0	91.1	81	116				
Chromium	25	0.50	25	0	99.1	85	113				
Cobalt	24	1.0	25	0	97.6	85	112				
Copper	26	5.0	25	0	104	81	117				
Iron	230	15	250	0	91.3	81	118				
Lead	24	5.0	25	0	97.5	81	112				
Magnesium	230	50	250	0	91.3	78	115				
Manganese	26	1.0	25	0	103	84	114				
Nickel	25	5.0	25	0	98.4	83	113				
Potassium	240	20	250	0	95.3	81	116				
Selenium	25	2.0	25	0	99.5	78	111				
Silver	23	1.0	25	0	93.5	82	112				
Sodium	230	50	250	0	93.6	83	118				
Vanadium	24	2.5	25	0	95.9	82	114				
Zinc	24	5.0	25	0	95.6	82	113				

Sample ID:	1606389-005BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	ZZZZZZ	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695824

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9,000	3.7	18	9,000	82.5	74	119				
Antimony	19	0.73	18	2.3	89.9	79	114				
Arsenic	17	1.5	18	1.7	85.1	82	111				
Barium	39	7.3	18	25	75.3	83	113				Q
Beryllium	17	0.18	18	0.023	90.8	83	113				
Cadmium	17	0.18	18	0	90.1	82	113				
Calcium	850	37	180	530	173	81	116				Q
Chromium	30	0.37	18	15	84.2	85	113				Q
Cobalt	18	0.73	18	2.3	85.9	85	112				
Copper	38	3.7	18	21	92.1	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40157

Sample ID: **1606389-005BMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/15/2016** RunNo: **87363**

Client ID: **ZZZZZZ** Batch ID: **40157** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/13/2016** SeqNo: **1695824**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	5,700	11	180	5,900	-112	81	118				JQ
Lead	19	3.7	18	3.3	85.6	81	112				
Magnesium	1,900	37	180	1,700	61.4	78	115				JQ
Manganese	110	0.73	18	100	52.5	84	114				Q
Nickel	23	3.7	18	6.8	90.5	83	113				
Potassium	1,100	15	180	960	92.3	81	116				
Selenium	15	1.5	18	0	84.2	78	111				
Silver	16	0.73	18	0	89.8	82	112				
Sodium	250	37	180	67	101	83	118				
Vanadium	33	1.8	18	19	75.9	82	114				Q
Zinc	30	3.7	18	16	75.8	82	113				Q

Sample ID: **1606389-005BMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/15/2016** RunNo: **87363**

Client ID: **ZZZZZZ** Batch ID: **40157** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/13/2016** SeqNo: **1695825**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9,000	3.7	18	9,000	26.9	74	119	9,000	0.113	20	Q
Antimony	19	0.74	18	2.3	91.8	79	114	19	2.42	20	
Arsenic	18	1.5	18	1.7	86.5	82	111	17	2.01	20	
Barium	40	7.4	18	25	79.4	83	113	39	2.15	20	Q
Beryllium	17	0.18	18	0.023	91.0	83	113	17	0.848	20	
Cadmium	17	0.18	18	0	90.3	82	113	17	0.905	20	
Calcium	750	37	180	530	118	81	116	850	12.4	20	Q
Chromium	31	0.37	18	15	88.7	85	113	30	3.08	20	
Cobalt	19	0.74	18	2.3	87.5	85	112	18	2.23	20	
Copper	38	3.7	18	21	93.0	81	117	38	0.717	20	
Iron	5,600	11	180	5,900	-202	81	118	5,700	2.99	20	JQ
Lead	20	3.7	18	3.3	89.0	81	112	19	3.81	20	
Magnesium	1,800	37	180	1,700	38.8	78	115	1,900	2.22	20	Q
Manganese	110	0.74	18	100	47.4	84	114	110	0.791	20	Q
Nickel	24	3.7	18	6.8	92.7	83	113	23	2.15	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40157

Sample ID:	1606389-005BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	ZZZZZZ	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695825

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,100	15	180	960	94.1	81	116	1,100	0.390	20	
Selenium	16	1.5	18	0	89.2	78	111	15	6.45	20	
Silver	17	0.74	18	0	90.8	82	112	16	1.82	20	
Sodium	250	37	180	67	96.4	83	118	250	2.77	20	
Vanadium	33	1.8	18	19	76.2	82	114	33	0.457	20	Q
Zinc	30	3.7	18	16	76.8	82	113	30	0.884	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40160**

Sample ID:	MB-40160	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	%Rec	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	PBW	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1698350

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.24		0.5000		47.2	53	106				Q
Surr: Nitrobenzene-d5	0.24		0.5000		48.7	55	111				Q
Surr: Terphenyl-d14	0.43		0.5000		87.0	58	132				

Sample ID:	LCS-40160	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	%Rec	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	LCSW	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1698351

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.29		0.5000		57.7	53	106				
Surr: Nitrobenzene-d5	0.31		0.5000		61.4	55	111				
Surr: Terphenyl-d14	0.46		0.5000		91.8	58	132				

Sample ID:	1606387-005BMS	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	%Rec	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	ZZZZZZ	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1700089

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.18		0.5051		35.9	53	106				Q
Surr: Nitrobenzene-d5	0.19		0.5051		37.3	55	111				Q
Surr: Terphenyl-d14	0.43		0.5051		86.0	58	132				

Sample ID:	1606387-005BMSD	Samp Type:	MSD	Test Code:	SW_8270A-SIM	Units:	%Rec	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	ZZZZZZ	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1700090

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	0.20		0.4950		40.5	53	106		0	20	Q
Surr: Nitrobenzene-d5	0.19		0.4950		39.2	55	111		0	20	Q
Surr: Terphenyl-d14	0.33		0.4950		66.2	58	132		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40167**

Sample ID:	**LCS-40167**	Samp Type:	**LCS**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**87151**	
Client ID:	**LCSS**	Batch ID:	**40167**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/6/2016**	SeqNo:	**1691644**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	10	0.20	10	0	102	83	118				G	

Sample ID:	**MB-40167**	Samp Type:	**MBLK**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**87151**	
Client ID:	**PBS**	Batch ID:	**40167**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/6/2016**	SeqNo:	**1691645**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	0.20	0.20									UG	

Sample ID:	**1606293-005FMS**	Samp Type:	**MS**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**6/15/2016**	RunNo:	**87151**	
Client ID:	**ZZZZZZ**	Batch ID:	**40167**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/6/2016**	SeqNo:	**1691768**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.4	0.15	7.6	0.14	95.8	83	118				G	

Sample ID:	**1606293-005FMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**6/15/2016**	RunNo:	**87151**	
Client ID:	**ZZZZZZ**	Batch ID:	**40167**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/6/2016**	SeqNo:	**1691769**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.6	0.15	7.6	0.14	98.5	83	118	7.4	2.78	20	G	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40321

Sample ID:	LCS-40321	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87279
Client ID:	LCSS	Batch ID:	40321	TestNo:	SW8082	SW3546		Analysis Date:	7/7/2016	SeqNo:	1694036

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.033	0.16	0	91.8	46	129				
Aroclor 1260	0.16	0.033	0.16	0	96.7	45	134				
Surr: Tetrachloro-m-xylene	6.5		8.245		78.9	44	130				
Surr: Decachlorobiphenyl	7.4		8.245		89.2	40	135				

Sample ID:	LCSD-40321	Samp Type:	LCSD	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87279
Client ID:	LCSS02	Batch ID:	40321	TestNo:	SW8082	SW3546		Analysis Date:	7/7/2016	SeqNo:	1694037

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.033	0.17	0	87.1	46	129	0.15	4.34	25	
Aroclor 1260	0.15	0.033	0.17	0	92.0	45	134	0.16	4.11	25	
Surr: Tetrachloro-m-xylene	6.2		8.322		74.1	44	130		0	25	
Surr: Decachlorobiphenyl	7.0		8.322		83.6	40	135		0	25	

Sample ID:	MB-40321	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87279
Client ID:	PBS	Batch ID:	40321	TestNo:	SW8082	SW3546		Analysis Date:	7/7/2016	SeqNo:	1694038

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.6		8.311		91.4	44	130				
Surr: Decachlorobiphenyl	8.1		8.311		97.1	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86576**

Sample ID:	**1606229-012A DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/9/2016**	RunNo:	**86576**
Client ID:	**ZZZZZZ**	Batch ID:	**R86576**	TestNo:	**D2216**			Analysis Date:	**6/9/2016**	SeqNo:	**1679617**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	13	1.0						12.06	5.78	20	

Sample ID:	**1606286-006C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/9/2016**	RunNo:	**86576**
Client ID:	**WDS-SB22-05LR1**	Batch ID:	**R86576**	TestNo:	**D2216**			Analysis Date:	**6/9/2016**	SeqNo:	**1679629**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	10	1.0						11.49	13.6	20	

RTI Laboratories - Definitions and Acronyms

WO#: 1606286

Date Reported: 8/29/2016
Revision v2

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606286

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060816-04
Batch May16

Database Information | Other Sample Information | Analysis

	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	HII-SB01	00	01	N	1	HII-SS01-01	06/07/16	1330	SS	3	004							1	1	1			
2	HII-SB01	03	04	N	1	HII-SB01-04		1340	SO	3								1	1	1			
3	HII-SB02	00	01	N	1	HII-SS02-01		1250	SS	3								1	1	1			
4	HII-SB02	03	04	N	1	HII-SB02-04		1300	SO	3								1	1	1			
5	HII-SB02	05	06	N	1	HII-SB02-06		1310	SO	3								1	1	1			LOCID: HII-SB
	HI2-SB01	00	01	N	1	HI2-SS01-01		1250	SS	3								1	1	1			
	HI2-SB01	04	05	N	1	HI2-SB01-05		1300	SO	3								1	1	1			ID: HI2-SB01
	WDS-SB21	04	05	N	1	WDS-SB21-05		1605	SO	3								1	1	1			
	~~WDS-SB22~~																						
	~~WDS-SB23~~																						
	~~WDS-SB24~~																						

06/08/16

1. Relinquished By / Company	Amanda Martin AECOM	Date 06/08/16	Time 1620	1. Received By / Company	Transfer to FedEx
2. Relinquished By / Company		Date	Time	2. Received By / Company	Date / Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	RTI Labs 6-9-16 10:00

Comments: non-VOC samples

Shipment Method/Airbill No. 8405 0202 6070

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMP

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606286

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 0160816-05
Batch May16

Database Information / Other Sample Information / Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	PCBs (8082A)	PNA (8270D-SIM)	Metals (6020)	Comment
WDS-SB22	04	05	N	1	WDS-SB22-05	06/07/16	1535	SO	3	COS	1	1	1	
WDS-SB23	04	05	N	1	WDS-SB23-05		1430				1	1	1	
WDS-SB24	03	04	N	1	WDS-SB24-04		1410				1	1	1	
WDS-SB25	07	08	N	1	WDS-SB25-08		1550				1	1	1	
WDS-SB26	04	05	N	1	WDS-SB26-05		1620				1	1	1	
WDS-SB27	07	08	N	1	WDS-SB27-08		1505				1	1	1	
WDS-SB27	07	08	FD	1	WDS-SB27-08DUP		1505							

6
7
8
9
10
11
12

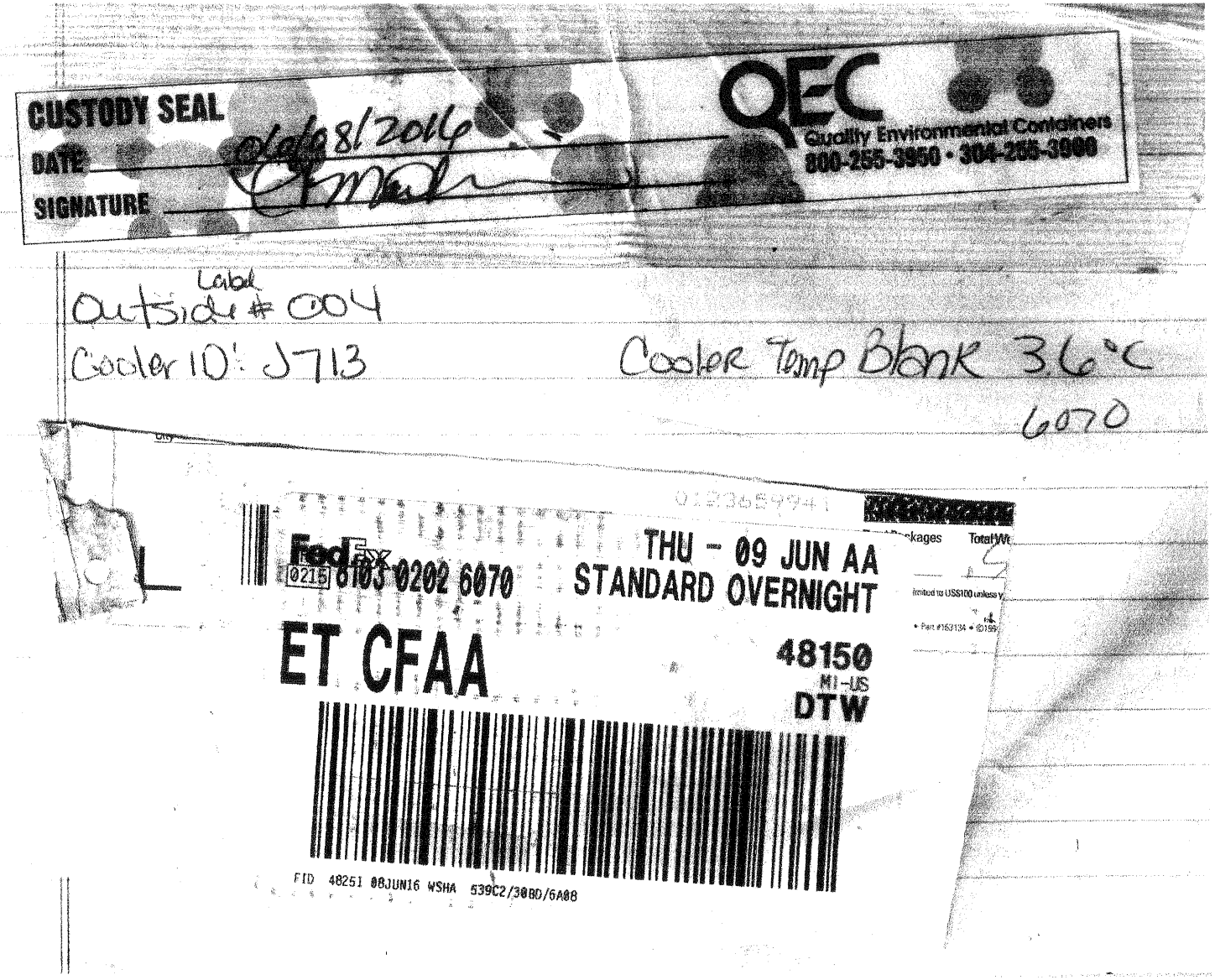
1. Relinquished By / Company: A. Martin AECOM	Date: 06/08/16	Time: 1130	1. Received By / Company: Transfer to FedEx	Date: 06/08/16	Time: 1130
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: FedEx / RTI Labs	Date: 6-9-16	Time: 10:00

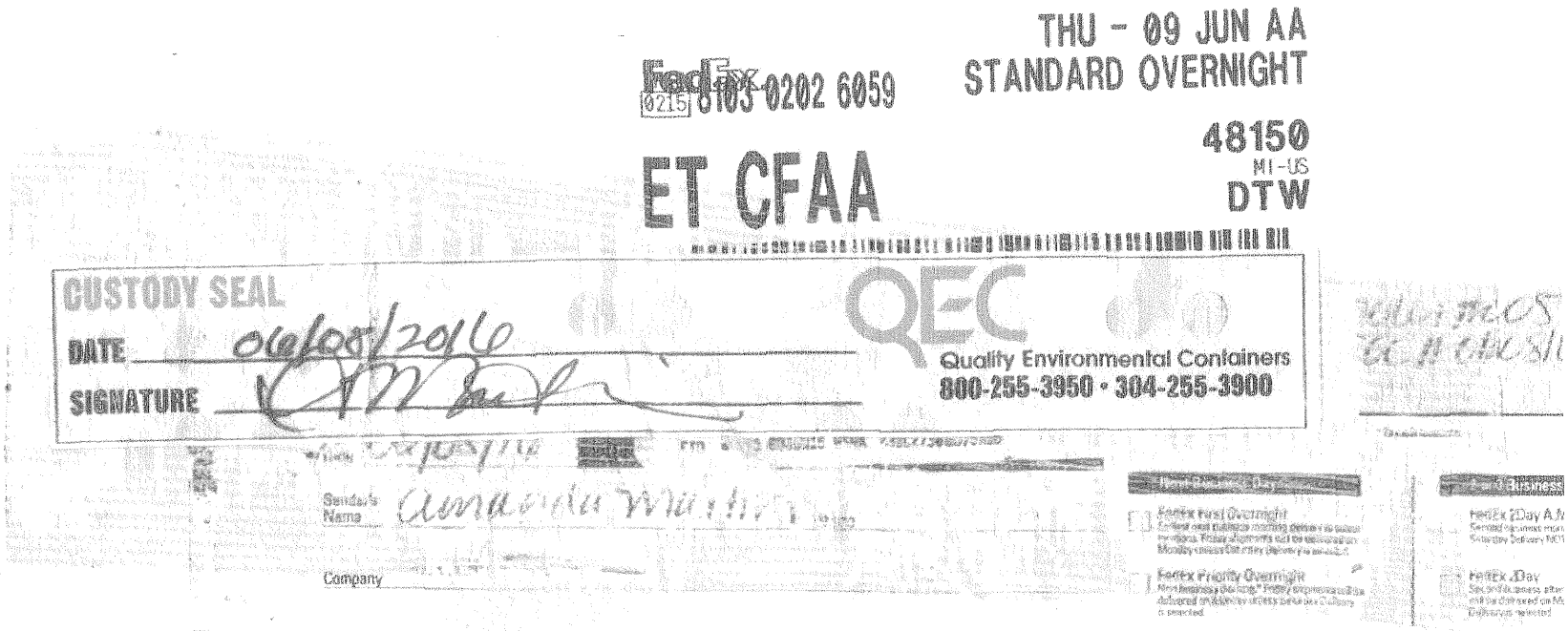
Comments: SOIL SAMPLE

Shipment Method/Airbill No.: 810 5020 6059

DP-43

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy


CUSTODY SEAL
DATE 6/8/2016
SIGNATURE
QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900
Label
Outside # 004
Cooler ID: J713
Cooler Temp Blank 3.6°C
6070
FedEx
0215 6103 0202 6070
THU - 09 JUN AA
STANDARD OVERNIGHT
ET CFAA
48150
MI-US
DTW
FID 48251 08JUN16 WSHA 539C2/30BD/6A08



Cooler : DP-43

Temp : 1.9-6.0°C

on ice

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606293

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606293-001A	TB-SO-060716-01		6/7/2016 8:50 AM	6/9/2016 10:00 AM	Soil
1606293-001B	TB-SO-060716-01		6/7/2016 8:50 AM	6/9/2016 10:00 AM	Soil
1606293-001C	TB-SO-060716-01		6/7/2016 8:50 AM	6/9/2016 10:00 AM	Soil
1606293-002A	H20-SS01-01		6/7/2016 10:15 AM	6/9/2016 10:00 AM	Soil
1606293-002B	H20-SS01-01		6/7/2016 10:15 AM	6/9/2016 10:00 AM	Soil
1606293-002C	H20-SS01-01		6/7/2016 10:15 AM	6/9/2016 10:00 AM	Soil
1606293-002D	H20-SS01-01		6/7/2016 10:15 AM	6/9/2016 10:00 AM	Soil
1606293-002E	H20-SS01-01		6/7/2016 10:15 AM	6/9/2016 10:00 AM	Soil
1606293-002F	H20-SS01-01		6/7/2016 10:15 AM	6/9/2016 10:00 AM	Soil
1606293-002G	H20-SS01-01		6/7/2016 10:15 AM	6/9/2016 10:00 AM	Soil
1606293-003A	H20-SS01-02		6/7/2016 10:20 AM	6/9/2016 10:00 AM	Soil
1606293-003B	H20-SS01-02		6/7/2016 10:20 AM	6/9/2016 10:00 AM	Soil
1606293-003C	H20-SS01-02		6/7/2016 10:20 AM	6/9/2016 10:00 AM	Soil
1606293-003D	H20-SS01-02		6/7/2016 10:20 AM	6/9/2016 10:00 AM	Soil
1606293-003E	H20-SS01-02		6/7/2016 10:20 AM	6/9/2016 10:00 AM	Soil
1606293-003F	H20-SS01-02		6/7/2016 10:20 AM	6/9/2016 10:00 AM	Soil
1606293-003G	H20-SS01-02		6/7/2016 10:20 AM	6/9/2016 10:00 AM	Soil
1606293-004A	H20-SS02-01		6/7/2016 10:25 AM	6/9/2016 10:00 AM	Soil
1606293-004B	H20-SS02-01		6/7/2016 10:25 AM	6/9/2016 10:00 AM	Soil
1606293-004C	H20-SS02-01		6/7/2016 10:25 AM	6/9/2016 10:00 AM	Soil
1606293-004D	H20-SS02-01		6/7/2016 10:25 AM	6/9/2016 10:00 AM	Soil
1606293-004E	H20-SS02-01		6/7/2016 10:25 AM	6/9/2016 10:00 AM	Soil
1606293-004F	H20-SS02-01		6/7/2016 10:25 AM	6/9/2016 10:00 AM	Soil
1606293-004G	H20-SS02-01		6/7/2016 10:25 AM	6/9/2016 10:00 AM	Soil
1606293-005A	H20-SS02-02		6/7/2016 10:50 AM	6/9/2016 10:00 AM	Soil
1606293-005B	H20-SS02-02		6/7/2016 10:50 AM	6/9/2016 10:00 AM	Soil
1606293-005C	H20-SS02-02		6/7/2016 10:50 AM	6/9/2016 10:00 AM	Soil
1606293-005D	H20-SS02-02		6/7/2016 10:50 AM	6/9/2016 10:00 AM	Soil
1606293-005E	H20-SS02-02		6/7/2016 10:50 AM	6/9/2016 10:00 AM	Soil
1606293-005F	H20-SS02-02		6/7/2016 10:50 AM	6/9/2016 10:00 AM	Soil
1606293-005G	H20-SS02-02		6/7/2016 10:50 AM	6/9/2016 10:00 AM	Soil
1606293-006A	H9-SS01-01		6/6/2016 2:15 PM	6/9/2016 10:00 AM	Soil
1606293-006B	H9-SS01-01		6/6/2016 2:15 PM	6/9/2016 10:00 AM	Soil
1606293-007A	H3-SS01-01		6/7/2016 9:10 AM	6/9/2016 10:00 AM	Soil
1606293-007B	H3-SS01-01		6/7/2016 9:10 AM	6/9/2016 10:00 AM	Soil
1606293-007C	H3-SS01-01		6/7/2016 9:10 AM	6/9/2016 10:00 AM	Soil
1606293-007D	H3-SS01-01		6/7/2016 9:10 AM	6/9/2016 10:00 AM	Soil
1606293-007E	H3-SS01-01		6/7/2016 9:10 AM	6/9/2016 10:00 AM	Soil
1606293-007F	H3-SS01-01		6/7/2016 9:10 AM	6/9/2016 10:00 AM	Soil
1606293-007G	H3-SS01-01		6/7/2016 9:10 AM	6/9/2016 10:00 AM	Soil
1606293-008A	H3-SS01-02		6/7/2016 9:15 AM	6/9/2016 10:00 AM	Soil
1606293-008B	H3-SS01-02		6/7/2016 9:15 AM	6/9/2016 10:00 AM	Soil
1606293-008C	H3-SS01-02		6/7/2016 9:15 AM	6/9/2016 10:00 AM	Soil
1606293-008D	H3-SS01-02		6/7/2016 9:15 AM	6/9/2016 10:00 AM	Soil
1606293-008E	H3-SS01-02		6/7/2016 9:15 AM	6/9/2016 10:00 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606293-008F	H3-SS01-02		6/7/2016 9:15 AM	6/9/2016 10:00 AM	Soil
1606293-009A	H3-SS02-01		6/7/2016 9:20 AM	6/9/2016 10:00 AM	Soil
1606293-009B	H3-SS02-01		6/7/2016 9:20 AM	6/9/2016 10:00 AM	Soil
1606293-009C	H3-SS02-01		6/7/2016 9:20 AM	6/9/2016 10:00 AM	Soil
1606293-009D	H3-SS02-01		6/7/2016 9:20 AM	6/9/2016 10:00 AM	Soil
1606293-009E	H3-SS02-01		6/7/2016 9:20 AM	6/9/2016 10:00 AM	Soil
1606293-009F	H3-SS02-01		6/7/2016 9:20 AM	6/9/2016 10:00 AM	Soil
1606293-009G	H3-SS02-01		6/7/2016 9:20 AM	6/9/2016 10:00 AM	Soil
1606293-010A	H3-SS02-02		6/7/2016 9:25 AM	6/9/2016 10:00 AM	Soil
1606293-010B	H3-SS02-02		6/7/2016 9:25 AM	6/9/2016 10:00 AM	Soil
1606293-010C	H3-SS02-02		6/7/2016 9:25 AM	6/9/2016 10:00 AM	Soil
1606293-010D	H3-SS02-02		6/7/2016 9:25 AM	6/9/2016 10:00 AM	Soil
1606293-010E	H3-SS02-02		6/7/2016 9:25 AM	6/9/2016 10:00 AM	Soil
1606293-010F	H3-SS02-02		6/7/2016 9:25 AM	6/9/2016 10:00 AM	Soil
1606293-010G	H3-SS02-02		6/7/2016 9:25 AM	6/9/2016 10:00 AM	Soil
1606293-011A	TB-SO-060716-02		6/7/2016 9:00 AM	6/9/2016 10:00 AM	Soil
1606293-011B	TB-SO-060716-02		6/7/2016 9:00 AM	6/9/2016 10:00 AM	Soil
1606293-011C	TB-SO-060716-02		6/7/2016 9:00 AM	6/9/2016 10:00 AM	Soil
1606293-012A	H12-SB01-05		6/7/2016 1:00 PM	6/9/2016 10:00 AM	Soil
1606293-012B	H12-SB01-05		6/7/2016 1:00 PM	6/9/2016 10:00 AM	Soil
1606293-012C	H12-SB01-05		6/7/2016 1:00 PM	6/9/2016 10:00 AM	Soil
1606293-012D	H12-SB01-05		6/7/2016 1:00 PM	6/9/2016 10:00 AM	Soil
1606293-012E	H12-SB01-05		6/7/2016 1:00 PM	6/9/2016 10:00 AM	Soil
1606293-012F	H12-SB01-05		6/7/2016 1:00 PM	6/9/2016 10:00 AM	Soil
1606293-012G	H12-SB01-05		6/7/2016 1:00 PM	6/9/2016 10:00 AM	Soil
1606293-013A	H12-SS01-01		6/7/2016 12:50 PM	6/9/2016 10:00 AM	Soil
1606293-013B	H12-SS01-01		6/7/2016 12:50 PM	6/9/2016 10:00 AM	Soil
1606293-013C	H12-SS01-01		6/7/2016 12:50 PM	6/9/2016 10:00 AM	Soil
1606293-013D	H12-SS01-01		6/7/2016 12:50 PM	6/9/2016 10:00 AM	Soil
1606293-013E	H12-SS01-01		6/7/2016 12:50 PM	6/9/2016 10:00 AM	Soil
1606293-013F	H12-SS01-01		6/7/2016 12:50 PM	6/9/2016 10:00 AM	Soil
1606293-013G	H12-SS01-01		6/7/2016 12:50 PM	6/9/2016 10:00 AM	Soil
1606293-014A	WDS-SB21-05		6/7/2016 4:50 PM	6/9/2016 10:00 AM	Soil
1606293-014B	WDS-SB21-05		6/7/2016 4:50 PM	6/9/2016 10:00 AM	Soil
1606293-014C	WDS-SB21-05		6/7/2016 4:50 PM	6/9/2016 10:00 AM	Soil
1606293-014D	WDS-SB21-05		6/7/2016 4:50 PM	6/9/2016 10:00 AM	Soil
1606293-014E	WDS-SB21-05		6/7/2016 4:50 PM	6/9/2016 10:00 AM	Soil
1606293-014F	WDS-SB21-05		6/7/2016 4:50 PM	6/9/2016 10:00 AM	Soil
1606293-014G	WDS-SB21-05		6/7/2016 4:50 PM	6/9/2016 10:00 AM	Soil
1606293-015A	WDS-SB22-05		6/7/2016 3:35 PM	6/9/2016 10:00 AM	Soil
1606293-015B	WDS-SB22-05		6/7/2016 3:35 PM	6/9/2016 10:00 AM	Soil
1606293-015C	WDS-SB22-05		6/7/2016 3:35 PM	6/9/2016 10:00 AM	Soil
1606293-015D	WDS-SB22-05		6/7/2016 3:35 PM	6/9/2016 10:00 AM	Soil
1606293-016A	WDS-SB23-05		6/7/2016 2:30 PM	6/9/2016 10:00 AM	Soil
1606293-016B	WDS-SB23-05		6/7/2016 2:30 PM	6/9/2016 10:00 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606293-016C	WDS-SB23-05		6/7/2016 2:30 PM	6/9/2016 10:00 AM	Soil
1606293-016D	WDS-SB23-05		6/7/2016 2:30 PM	6/9/2016 10:00 AM	Soil
1606293-017A	WDS-SB24-04		6/7/2016 2:10 PM	6/9/2016 10:00 AM	Soil
1606293-017B	WDS-SB24-04		6/7/2016 2:10 PM	6/9/2016 10:00 AM	Soil
1606293-017C	WDS-SB24-04		6/7/2016 2:10 PM	6/9/2016 10:00 AM	Soil
1606293-017D	WDS-SB24-04		6/7/2016 2:10 PM	6/9/2016 10:00 AM	Soil
1606293-018A	WDS-SB25-08		6/7/2016 3:50 PM	6/9/2016 10:00 AM	Soil
1606293-018B	WDS-SB25-08		6/7/2016 3:50 PM	6/9/2016 10:00 AM	Soil
1606293-018C	WDS-SB25-08		6/7/2016 3:50 PM	6/9/2016 10:00 AM	Soil
1606293-018D	WDS-SB25-08		6/7/2016 3:50 PM	6/9/2016 10:00 AM	Soil
1606293-019A	WDS-SB26-05		6/7/2016 4:20 PM	6/9/2016 10:00 AM	Soil
1606293-019B	WDS-SB26-05		6/7/2016 4:20 PM	6/9/2016 10:00 AM	Soil
1606293-019C	WDS-SB26-05		6/7/2016 4:20 PM	6/9/2016 10:00 AM	Soil
1606293-019D	WDS-SB26-05		6/7/2016 4:20 PM	6/9/2016 10:00 AM	Soil
1606293-020A	WDS-SB27-08		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606293-020B	WDS-SB27-08		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606293-020C	WDS-SB27-08		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606293-020D	WDS-SB27-08		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606293-021A	WDS-SB27-08 DUP		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606293-021B	WDS-SB27-08 DUP		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606293-021C	WDS-SB27-08 DUP		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil
1606293-021D	WDS-SB27-08 DUP		6/7/2016 3:05 PM	6/9/2016 10:00 AM	Soil

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical report revision: 9/16/16: Update LOQ for Benzene for samples 1606293-001A, 003A, -005A, -008A, -010A, -011A, -012A, -013A, -017A, -018A, -019A, and -021A.

Analytical Report revised 8/11/2016: Compound 3,3´-Dichlorobenzidine was missing in the SVOC analysis. Also Benzoic Acid was missing in the QC Summary report for the LCS, MS and MSD. Benzoic Acid is properly populated in the QC Summary. Removed two compounds, 1,2,4-Trichlorobenzene and 1,2-Dichlorobenzene from the VOC 8260 list.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A
- Polychlorinated Biphenyls - 8082A
- Volatile Organic Compounds - 8260C
- Volatile Organic Compounds - 8260C-ME
- Volatile Organic Compounds - 8260C
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_6010S, Analytical Run No 86750, Batch ID 40137:
Sample 1606293-005FMS: Recoveries for several analytes exceeded control limits. Suspected matrix interference for Nickel and Selenium.
Sample 1606293-005FMSD: Recoveries for several analytes exceeded control limits. RPD results for Selenium exceeded control limits. Suspected matrix interference for Nickel and Selenium.

Analytical Comments for Test SW_6010S, Analytical Run No 86852, Batch ID 40137:
Sample 1606293-005FMS: Recoveries for Chromium and Manganese exceeded control limits. Suspected matrix interference for Manganese.
Sample 1606293-005FMSD: Recoveries for Chromium and Manganese exceeded control limits. Suspected matrix interference for Manganese.

Analytical Comments for Test SW_8082S, Analytical Run No 86760, Batch ID 40144:
Sample 1606293-005E: Surrogate Decachlorobiphenyl exceeded recovery control limit.
Sample 1606293-005EMS: Surrogate Tetrachloro-m-xylene exceeded recovery control limit.

Analytical Comments for Test SW_8260S, Analytical Run No 86770, Batch ID R86770:
Sample VOA11B ICV 061616: ICV results for Chloroethane exceed the 20% criteria.
Sample VOA11B CCV2 061716: CCV results for Bromoform and Chloroethane exceed the 20% criteria.
Sample VOA11B LCS2 0617: 1,1,1,2-Tetrachloroethane, bromodichloromethane, Bromoform, Chlorodibromomethane, cis-1,3-dichloropropene, styrene and trans-1,3-dichloropropene were outside the control limits.
Samples 1606130-009C MS/MSD: Several spike recoveries were outside the control limits.
Samples 1606467-004B MS/MSD: Several spike recoveries were outside the control limits.

Analytical Comments for Test SW_8260S, Analytical Run No 86786, Batch ID R86786:
Sample VOA11B ICV 061616: ICV results for Chloroethane exceeded the 20% criteria.
Sample VOA11B CCV 062016: CCV results for Carbon tetrachloride and Chloroethane exceeded the 20% criteria.
Sample VOA11B LCS 06201: Recovery for Bromoform exceeded the control limits.
Sample VOA11B CCVE 062016: Ending CCV results for Chloroethane exceeded the 50% criteria.
Sample 1606522-007A MS: Spike recoveries for Chlorodibromomethane, Chloroethane, cis-1,3-Dichloropropene and Styrene were outside the control limits.
Sample 1606522-007A MSD: Spike recoveries for Chloroethane, cis-1,3-Dichloropropene and Styrene were outside the control limits.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86674, Batch ID R86674:
Sample VOA11B CCV 061416: Acetone, Trichlorofluoromethane and vinyl acetate exceed 20% criteria.
Sample VOA11B MBLK 0614: Acetone and Methylene Chloride detected in MB at or above 1/2 the LOQ. Common lab contaminate.
Sample VOA11B LCS 06141: Acetone and toluene exceed limits.
Sample VOA11B LCSD 0614: Acetone, Toluene and Bromoform exceed limits.
Sample VOA11B CCVE 061416: Toluene exceeds QC limit.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86694, Batch ID R86694:

Sample VOA11B CCV 061516: CCV results for acetone and vinyl acetate exceed the 20% criteria.
Sample VOA11B MBLK 0615: Acetone and Methylene Chloride detected in MBLK at or above 1/2 the LOQ.
Sample VOA11B LCS 06151: Acetone and Methylene chloride exceed limits.
Sample VOA11B LCSD 0615: Acetone and Methylene chloride exceed limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86688, Batch ID 40135:
Sample LCS-40135: LCS results for 2,4-Dinitrophenol exceeded control limit.
Sample 1606293-004D: Surrogates recovery for Terphenyl-d14 and 2-Fluorobiphenyl exceeded control limit.
Sample 1606293-005DMS: MS results for N-nitrosodipropylamine, 3,3´-Dichlorobenzidine exceeded control limit.
Sample 1606293-005DMSD: MSD results for N-nitrosodipropylamine, 3,3´-Dichlorobenzidine and Benzoic Acid exceeded control limit.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86688, Batch ID R86688:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 061416: CCV results for Pentachlorophenol, 2,4-Dimethylphenol, 2-Nitrophenol, 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol exceeded control limit.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86714, Batch ID R86714:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 061516: CCV results for 2,4-Dinitrophenol, 2-Nitrophenol, and 4,6-Dinitro-2-methylphenol exceeded control limit.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86814, Batch ID R86814:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 062016: CCV results for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol,Benzoic acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine, and Pentachlorophenol exceeded control limit.
Sample CCVE S8 062016: Ending CCV results for Benzoic acid exceeded control limit.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 86796, Batch ID 40155:
Sample 1606293-005D MS: Spike recovery for Fluoranthene was outside the control limits.
Sample 1606293-005DMSD: Recovery for several compounds exceeded control limits due to elevated concentrations of target analytes in the sample. Several RPD were outside the control limits.
Sample 1606293-002D: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control Limits.
Sample 1606293-003D: Surrogate recovery for Nitrobenzene-d5 was outside the control limits.
Sample 1606293-006D: Surrogate recoveries for 2-Fluorobiphenyl, and Nitrobenzene-d5 were outside the control Limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87554, Batch ID R87554:
Sample CCV SIM 072016S7: Benzo(b)fluoranthene and Benzo (k) Fluoranthene slightly exceeded QC limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 876154, Batch ID 40172:
Sample 1606293-013D: Surrogate recovery for Terphenyl-d14 was outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87363, Batch ID 401574:
Samples 1606389-005B MS/MSD: Several spike recoveries were outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606293-001	**Matrix:**	Soil
Client Sample ID:	TB-SO-060716-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00060	U	0.00029	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
1,1,1-Trichloroethane	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
1,1,2,2-Tetrachloroethane	0.00060	U	0.00053	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
1,1,2-Trichloroethane	0.00060	U	0.00039	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
1,1-Dichloroethane	0.00060	U	0.00015	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
1,1-Dichloroethene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
1,2,3-Trichloropropane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
1,2-Dibromo-3-chloropropane	0.0020	U	0.0014	0.0020	0.0050	mg/Kg	1	6/14/2016 9:48 AM
1,2-Dibromoethane	0.00060	U	0.00045	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
1,2-Dichloroethane	0.00060	U	0.00014	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
1,2-Dichloropropane	0.00060	U	0.00028	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
2-Butanone [MEK]	0.010	U	0.0059	0.010	0.020	mg/Kg	1	6/14/2016 9:48 AM
2-Hexanone	0.0020	U	0.00063	0.0020	0.0050	mg/Kg	1	6/14/2016 9:48 AM
Acetone	0.0090	JYQ	0.00091	0.0020	0.010	mg/Kg	1	6/14/2016 9:48 AM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Bromodichloromethane	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Bromoform	0.00060	UQ	0.00033	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Carbon disulfide	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Carbon tetrachloride	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Chlorobenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Chlorodibromomethane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Chloroethane	0.0010	U	0.00076	0.0010	0.0020	mg/Kg	1	6/14/2016 9:48 AM
Chloroform	0.00060	U	0.00048	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Chloromethane	0.00060	U	0.00034	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
cis-1,2-Dichloroethene	0.00060	U	0.00056	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
cis-1,3-Dichloropropene	0.00060	U	0.00016	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Dichlorodifluoromethane [Freon-12]	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Methylene chloride	0.0017	JB	0.0011	0.0020	0.0050	mg/Kg	1	6/14/2016 9:48 AM
Styrene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Tetrachloroethene	0.00060	U	0.00032	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Toluene	0.00060	UQ	0.00027	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
trans-1,2-Dichloroethene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
trans-1,3-Dichloropropene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Trichloroethene	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Trichlorofluoromethane [Freon-11]	0.00060	UY	0.00022	0.00060	0.0010	mg/Kg	1	6/14/2016 9:48 AM
Vinyl acetate	0.00060	UY	0.00047	0.00060	0.0050	mg/Kg	1	6/14/2016 9:48 AM
Vinyl chloride	0.00060	U	0.00031	0.00060	0.00080	mg/Kg	1	6/14/2016 9:48 AM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg	1	6/14/2016 9:48 AM
Surr: 4-Bromofluorobenzene	87.6			79-119		%Rec	1	6/14/2016 9:48 AM
Surr: Dibromofluoromethane	94.9			78-119		%Rec	1	6/14/2016 9:48 AM
Surr: Toluene-d8	88.1			85-116		%Rec	1	6/14/2016 9:48 AM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:15:00 AM
Project:	Camp Hero		
Lab ID:	1606293-002	**Matrix:**	Soil
Client Sample ID:	H20-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0099	U	0.0045	0.0099	0.049	mg/Kg-dry	1	6/16/2016 9:36 PM
Aroclor 1221	0.0099	U	0.0044	0.0099	0.049	mg/Kg-dry	1	6/16/2016 9:36 PM
Aroclor 1232	0.0099	U	0.0067	0.0099	0.049	mg/Kg-dry	1	6/16/2016 9:36 PM
Aroclor 1242	0.0099	U	0.0055	0.0099	0.049	mg/Kg-dry	1	6/16/2016 9:36 PM
Aroclor 1248	0.0099	U	0.0052	0.0099	0.049	mg/Kg-dry	1	6/16/2016 9:36 PM
Aroclor 1254	0.0099	U	0.0063	0.0099	0.049	mg/Kg-dry	1	6/16/2016 9:36 PM
Aroclor 1260	0.0099	U	0.0043	0.0099	0.049	mg/Kg-dry	1	6/16/2016 9:36 PM
Aroclor 1262	0.0099	U	0.0043	0.0099	0.049	mg/Kg-dry	1	6/16/2016 9:36 PM
Aroclor 1268	0.0099	U	0.0036	0.0099	0.049	mg/Kg-dry	1	6/16/2016 9:36 PM
Surr: Tetrachloro-m-xylene	78.5			44-130		%Rec	1	6/16/2016 9:36 PM
Surr: Decachlorobiphenyl	85.7			60-125		%Rec	1	6/16/2016 9:36 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,800		75	200	500	mg/Kg-dry	100	6/16/2016 3:02 PM
Antimony	2.5		0.38	0.50	1.0	mg/Kg-dry	1	6/16/2016 1:09 PM
Arsenic	1.2	J	0.73	1.0	2.0	mg/Kg-dry	1	6/16/2016 1:09 PM
Barium	33		0.30	5.0	10	mg/Kg-dry	1	6/16/2016 1:09 PM
Beryllium	0.85		0.013	0.050	0.25	mg/Kg-dry	1	6/16/2016 1:09 PM
Cadmium	0.45		0.033	0.050	0.25	mg/Kg-dry	1	6/16/2016 1:09 PM
Calcium	1,400		2.9	10	50	mg/Kg-dry	1	6/16/2016 1:09 PM
Chromium	14	G	0.083	0.40	0.50	mg/Kg-dry	1	6/22/2016 2:39 PM
Cobalt	2.5		0.090	0.25	1.0	mg/Kg-dry	1	6/16/2016 1:09 PM
Copper	24		0.42	1.0	5.0	mg/Kg-dry	1	6/16/2016 1:09 PM
Iron	6,200		31	50	150	mg/Kg-dry	10	6/16/2016 2:21 PM
Lead	27		0.62	1.0	5.0	mg/Kg-dry	1	6/16/2016 1:09 PM
Magnesium	1,300		3.5	5.0	50	mg/Kg-dry	1	6/16/2016 1:09 PM
Manganese	72		0.19	0.25	1.0	mg/Kg-dry	1	6/22/2016 2:39 PM
Nickel	8.2		0.28	1.0	5.0	mg/Kg-dry	1	6/16/2016 1:09 PM
Potassium	750		2.3	10	20	mg/Kg-dry	1	6/16/2016 1:09 PM
Selenium	1.5	U	1.2	1.5	2.0	mg/Kg-dry	1	6/16/2016 1:09 PM
Silver	0.28	J	0.082	0.25	1.0	mg/Kg-dry	1	6/16/2016 1:09 PM
Sodium	130		2.0	5.0	50	mg/Kg-dry	1	6/16/2016 1:09 PM
Vanadium	12		0.13	1.0	2.5	mg/Kg-dry	1	6/16/2016 1:09 PM
Zinc	25		0.39	0.50	5.0	mg/Kg-dry	1	6/16/2016 1:09 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.068	JG	0.047	0.048	0.19	mg/Kg-dry	10	7/6/2016 3:29 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.025	U	0.014	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
1,2-Dichlorobenzene	0.025	U	0.011	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
1,3-Dichlorobenzene	0.025	U	0.010	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
1,4-Dichlorobenzene	0.025	U	0.0080	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
2,4,5-Trichlorophenol	0.050	U	0.025	0.050	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 10:15:00 AM
Project: Camp Hero
Lab ID: 1606293-002 **Matrix:** Soil
Client Sample ID: H20-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.050	U	0.028	0.050	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
2,4-Dichlorophenol	0.13	U	0.043	0.13	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
2,4-Dimethyl phenol	0.13	U	0.048	0.13	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
2,4-Dinitrophenol	0.25	UY Q	0.14	0.25	1.2	mg/Kg-dry	1	6/14/2016 5:34 PM
2,4-Dinitrotoluene	0.025	U	0.022	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
2,6-Dinitrotoluene	0.025	U	0.024	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
2-Chloronaphthalene	0.025	U	0.017	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
2-Chlorophenol	0.13	U	0.052	0.13	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
2-Methylphenol (o-Cresol)	0.13	U	0.054	0.13	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
2-Nitroaniline	0.025	U	0.012	0.025	0.48	mg/Kg-dry	1	6/14/2016 5:34 PM
2-Nitrophenol	0.13	UY	0.062	0.13	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
3,3´-Dichlorobenzidine	1.0	U	0.64	1.0	1.5	mg/Kg-dry	1	6/14/2016 5:34 PM
3-Nitroaniline	0.025	U	0.018	0.025	0.48	mg/Kg-dry	1	6/14/2016 5:34 PM
3/4-Methylphenol [m/p-Cresol]	0.13	U	0.089	0.13	0.48	mg/Kg-dry	1	6/14/2016 5:34 PM
4,6-Dinitro-2-methylphenol	0.13	UY	0.072	0.13	0.48	mg/Kg-dry	1	6/14/2016 5:34 PM
4-Bromophenyl phenyl ether	0.13	U	0.064	0.13	0.30	mg/Kg-dry	1	6/14/2016 5:34 PM
4-Chloro-3-methylphenol	0.050	U	0.026	0.050	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
4-Chloroaniline [p-Chloroaniline]	0.13	U	0.038	0.13	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
4-Chlorophenyl phenyl ether	0.025	U	0.015	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
4-Nitroaniline	0.13	U	0.036	0.13	0.48	mg/Kg-dry	1	6/14/2016 5:34 PM
4-Nitrophenol	0.50	U	0.36	0.50	1.2	mg/Kg-dry	1	6/14/2016 5:34 PM
Benzoic acid	0.50	UQ Z	0.20	0.50	1.5	mg/Kg-dry	1	6/14/2016 5:34 PM
Benzyl alcohol	0.025	U	0.012	0.025	0.99	mg/Kg-dry	1	6/14/2016 5:34 PM
Bis(2-chloroethoxy) methane	0.025	U	0.010	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Bis(2-chloroethyl) ether	0.050	U	0.027	0.050	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Bis(2-chloroisopropyl)ether	0.025	UZ	0.011	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Bis(2-ethylhexyl) phthalate	0.050	U	0.044	0.050	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Butyl benzyl phthalate	0.050	U	0.030	0.050	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Carbazole	0.15	J	0.017	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Di-n-butyl phthalate	0.050	U	0.027	0.050	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Di-n-octyl phthalate	0.025	U	0.017	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Dibenzofuran	0.16	J	0.013	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Diethyl phthalate	0.025	U	0.018	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Dimethyl phthalate	0.025	U	0.017	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Hexachlorobenzene	0.025	U	0.014	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Hexachlorobutadiene	0.025	U	0.023	0.025	0.075	mg/Kg-dry	1	6/14/2016 5:34 PM
Hexachloroethane	0.025	U	0.012	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Isophorone	0.025	U	0.010	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
N-Nitrosodi-n-propylamine	0.025	U	0.014	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
N-Nitrosodimethylamine	0.025	U	0.012	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
N-Nitrosodiphenylamine	0.025	U	0.012	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Nitrobenzene	0.025	U	0.016	0.025	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Pentachlorophenol	0.13	UY	0.094	0.13	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Phenol	0.13	U	0.054	0.13	0.24	mg/Kg-dry	1	6/14/2016 5:34 PM
Surr: 2,4,6-Tribromophenol	65.9			39-132		%Rec	1	6/14/2016 5:34 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:15:00 AM
Project:	Camp Hero		
Lab ID:	1606293-002	**Matrix:**	Soil
Client Sample ID:	H20-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	57.9			44-115		%Rec	1	6/14/2016 5:34 PM
Surr: 2-Fluorophenol	52.4			35-115		%Rec	1	6/14/2016 5:34 PM
Surr: Nitrobenzene-d5	56.7			37-122		%Rec	1	6/14/2016 5:34 PM
Surr: Phenol-d5	55.5			33-122		%Rec	1	6/14/2016 5:34 PM
Surr: Terphenyl-d14	63.9			54-127		%Rec	1	6/14/2016 5:34 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: MB**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.065		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
2-Methylnaphthalene	0.072		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Acenaphthene	0.41		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Acenaphthylene	0.15		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Anthracene	0.35		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Benzo(a)anthracene	0.97		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Benzo(a)pyrene	0.70		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Benzo(b)fluoranthene	1.4		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Benzo(g,h,i)perylene	0.32		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Benzo(k)fluoranthene	0.34		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Chrysene	1.1		0.080	0.080	0.080	mg/Kg-dry	80	6/24/2016 7:53 PM
Dibenzo(a,h)anthracene	0.12		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Fluoranthene	3.1		0.080	0.080	0.080	mg/Kg-dry	80	6/24/2016 7:53 PM
Fluorene	0.34		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Indeno(1,2,3-cd)pyrene	0.34		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Naphthalene	0.12		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Phenanthrene	0.62		0.040	0.040	0.040	mg/Kg-dry	40	6/20/2016 6:52 PM
Pyrene	2.5		0.080	0.080	0.080	mg/Kg-dry	80	6/24/2016 7:53 PM
Surr: 2-Fluorobiphenyl	0	QU		46-115		%Rec	40	6/20/2016 6:52 PM
Surr: Nitrobenzene-d5	0	QU		44-125		%Rec	40	6/20/2016 6:52 PM
Surr: Terphenyl-d14	170	Q		58-133		%Rec	40	6/20/2016 6:52 PM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.083	UQ	0.040	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
1,1,1-Trichloroethane	0.083	U	0.034	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
1,1,2,2-Tetrachloroethane	0.083	U	0.073	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
1,1,2-Trichloroethane	0.083	U	0.030	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
1,1-Dichloroethane	0.083	U	0.029	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
1,1-Dichloroethene	0.083	U	0.039	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
1,2,3-Trichloropropane	0.083	U	0.079	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
1,2-Dibromo-3-chloropropane	0.28	U	0.16	0.28	0.69	mg/Kg-dry	91.5	6/17/2016 7:56 PM
1,2-Dibromoethane	0.083	U	0.049	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
1,2-Dichloroethane	0.083	U	0.036	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
1,2-Dichloropropane	0.083	U	0.046	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
2-Butanone [MEK]	0.69	U	0.46	0.69	1.4	mg/Kg-dry	91.5	6/17/2016 7:56 PM
2-Hexanone	0.14	U	0.086	0.14	0.28	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Acetone	0.24	J	0.11	0.28	0.69	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Benzene	0.083	U	0.028	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:15:00 AM
Project:	Camp Hero		
Lab ID:	1606293-002	**Matrix:**	Soil
Client Sample ID:	H20-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.083	UQ	0.036	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Bromoform	0.083	UYQ	0.045	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Carbon disulfide	0.083	U	0.050	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Carbon tetrachloride	0.083	U	0.037	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Chlorobenzene	0.083	U	0.036	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Chlorodibromomethane	0.083	UQ	0.068	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Chloroethane	0.28	UYZ	0.20	0.28	0.69	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Chloroform	0.083	U	0.037	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Chloromethane	0.083	U	0.055	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
cis-1,2-Dichloroethene	0.083	U	0.079	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
cis-1,3-Dichloropropene	0.083	UQ	0.022	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Dichlorodifluoromethane [Freon-12]	0.28	U	0.12	0.28	0.69	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Ethylbenzene	0.083	U	0.031	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Methylene chloride	0.14	U	0.11	0.14	0.28	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Styrene	0.083	UQ	0.032	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Tetrachloroethene	0.083	U	0.071	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Toluene	0.083	U	0.037	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
trans-1,2-Dichloroethene	0.083	U	0.028	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
trans-1,3-Dichloropropene	0.083	UQ	0.037	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Trichloroethene	0.083	U	0.020	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Trichlorofluoromethane [Freon-11]	0.083	U	0.077	0.083	0.14	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Vinyl acetate	0.083	U	0.080	0.083	3.4	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Vinyl chloride	0.083	U	0.075	0.083	0.11	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Xylene (Total)	0.25	U	0.13	0.25	0.41	mg/Kg-dry	91.5	6/17/2016 7:56 PM
Surr: 4-Bromofluorobenzene	94.2			79-119		%Rec	91.5	6/17/2016 7:56 PM
Surr: Dibromofluoromethane	91.4			78-119		%Rec	91.5	6/17/2016 7:56 PM
Surr: Toluene-d8	88.8			85-116		%Rec	91.5	6/17/2016 7:56 PM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	34	1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:20:00 AM
Project:	Camp Hero		
Lab ID:	1606293-003	**Matrix:**	Soil
Client Sample ID:	H20-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	6/16/2016 10:01 PM
Aroclor 1221	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	6/16/2016 10:01 PM
Aroclor 1232	0.0077	U	0.0052	0.0077	0.038	mg/Kg-dry	1	6/16/2016 10:01 PM
Aroclor 1242	0.0077	U	0.0043	0.0077	0.038	mg/Kg-dry	1	6/16/2016 10:01 PM
Aroclor 1248	0.0077	U	0.0041	0.0077	0.038	mg/Kg-dry	1	6/16/2016 10:01 PM
Aroclor 1254	0.0077	U	0.0049	0.0077	0.038	mg/Kg-dry	1	6/16/2016 10:01 PM
Aroclor 1260	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	6/16/2016 10:01 PM
Aroclor 1262	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	6/16/2016 10:01 PM
Aroclor 1268	0.0077	U	0.0028	0.0077	0.038	mg/Kg-dry	1	6/16/2016 10:01 PM
Surr: Tetrachloro-m-xylene	56.2			44-130		%Rec	1	6/16/2016 10:01 PM
Surr: Decachlorobiphenyl	63.3			60-125		%Rec	1	6/16/2016 10:01 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	14,000		56	150	370	mg/Kg-dry	100	6/16/2016 3:04 PM
Antimony	4.8		0.28	0.37	0.74	mg/Kg-dry	1	6/16/2016 1:10 PM
Arsenic	1.6		0.54	0.74	1.5	mg/Kg-dry	1	6/16/2016 1:10 PM
Barium	58		0.22	3.7	7.4	mg/Kg-dry	1	6/16/2016 1:10 PM
Beryllium	0.58		0.0094	0.037	0.19	mg/Kg-dry	1	6/16/2016 1:10 PM
Cadmium	0.036	J	0.025	0.037	0.19	mg/Kg-dry	1	6/16/2016 1:10 PM
Calcium	1,700		2.2	7.4	37	mg/Kg-dry	1	6/16/2016 1:10 PM
Chromium	20	G	0.061	0.30	0.37	mg/Kg-dry	1	6/22/2016 2:40 PM
Cobalt	4.9		0.067	0.19	0.74	mg/Kg-dry	1	6/16/2016 1:10 PM
Copper	33		0.31	0.74	3.7	mg/Kg-dry	1	6/16/2016 1:10 PM
Iron	12,000		23	37	110	mg/Kg-dry	10	6/16/2016 2:22 PM
Lead	3.0	J	0.46	0.74	3.7	mg/Kg-dry	1	6/16/2016 1:10 PM
Magnesium	4,100		26	37	370	mg/Kg-dry	10	6/16/2016 2:22 PM
Manganese	180		0.14	0.19	0.74	mg/Kg-dry	1	6/22/2016 2:40 PM
Nickel	14		0.21	0.74	3.7	mg/Kg-dry	1	6/16/2016 1:10 PM
Potassium	2,600		17	74	150	mg/Kg-dry	10	6/16/2016 2:22 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	6/16/2016 1:10 PM
Silver	0.19	U	0.061	0.19	0.74	mg/Kg-dry	1	6/16/2016 1:10 PM
Sodium	160		1.5	3.7	37	mg/Kg-dry	1	6/16/2016 1:10 PM
Vanadium	29		0.094	0.74	1.9	mg/Kg-dry	1	6/16/2016 1:10 PM
Zinc	27		0.29	0.37	3.7	mg/Kg-dry	1	6/16/2016 1:10 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.14	JG	0.037	0.038	0.15	mg/Kg-dry	10	7/6/2016 3:29 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
1,2-Dichlorobenzene	0.019	U	0.0082	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
1,3-Dichlorobenzene	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
1,4-Dichlorobenzene	0.019	U	0.0061	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 10:20:00 AM
Project: Camp Hero
Lab ID: 1606293-003 **Matrix:** Soil
Client Sample ID: H20-SS01-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
2,4-Dichlorophenol	0.095	U	0.032	0.095	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
2,4-Dimethyl phenol	0.095	U	0.036	0.095	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
2,4-Dinitrophenol	0.19	UYQ	0.11	0.19	0.94	mg/Kg-dry	1	6/14/2016 5:58 PM
2,4-Dinitrotoluene	0.019	U	0.016	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
2-Chlorophenol	0.095	U	0.040	0.095	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
2-Methylphenol (o-Cresol)	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
2-Nitroaniline	0.019	U	0.0092	0.019	0.36	mg/Kg-dry	1	6/14/2016 5:58 PM
2-Nitrophenol	0.095	UY	0.047	0.095	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
3,3´-Dichlorobenzidine	0.76	U	0.48	0.76	1.1	mg/Kg-dry	1	6/14/2016 5:58 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.36	mg/Kg-dry	1	6/14/2016 5:58 PM
3/4-Methylphenol [m/p-Cresol]	0.095	U	0.067	0.095	0.36	mg/Kg-dry	1	6/14/2016 5:58 PM
4,6-Dinitro-2-methylphenol	0.095	UY	0.054	0.095	0.36	mg/Kg-dry	1	6/14/2016 5:58 PM
4-Bromophenyl phenyl ether	0.095	U	0.048	0.095	0.23	mg/Kg-dry	1	6/14/2016 5:58 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
4-Chloroaniline [p-Chloroaniline]	0.095	U	0.029	0.095	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
4-Nitroaniline	0.095	U	0.027	0.095	0.36	mg/Kg-dry	1	6/14/2016 5:58 PM
4-Nitrophenol	0.38	U	0.27	0.38	0.94	mg/Kg-dry	1	6/14/2016 5:58 PM
Benzoic acid	0.38	UQZ	0.15	0.38	1.1	mg/Kg-dry	1	6/14/2016 5:58 PM
Benzyl alcohol	0.019	U	0.0091	0.019	0.75	mg/Kg-dry	1	6/14/2016 5:58 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0086	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.033	0.038	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Butyl benzyl phthalate	0.038	U	0.022	0.038	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Di-n-butyl phthalate	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Dibenzofuran	0.012	J	0.0096	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.057	mg/Kg-dry	1	6/14/2016 5:58 PM
Hexachloroethane	0.019	U	0.0087	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Isophorone	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
N-Nitrosodi-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
N-Nitrosodimethylamine	0.019	U	0.0092	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
N-Nitrosodiphenylamine	0.019	U	0.0092	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Pentachlorophenol	0.095	UY	0.071	0.095	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Phenol	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	6/14/2016 5:58 PM
Surr: 2,4,6-Tribromophenol	68.4			39-132		%Rec	1	6/14/2016 5:58 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:20:00 AM
Project:	Camp Hero		
Lab ID:	1606293-003	**Matrix:**	Soil
Client Sample ID:	H20-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	62.2			44-115		%Rec	1	6/14/2016 5:58 PM
Surr: 2-Fluorophenol	60.2			35-115		%Rec	1	6/14/2016 5:58 PM
Surr: Nitrobenzene-d5	62.6			37-122		%Rec	1	6/14/2016 5:58 PM
Surr: Phenol-d5	60.4			33-122		%Rec	1	6/14/2016 5:58 PM
Surr: Terphenyl-d14	69.6			54-127		%Rec	1	6/14/2016 5:58 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: MB**
1-Methylnaphthalene	0.015		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
2-Methylnaphthalene	0.016		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Acenaphthene	0.082		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Acenaphthylene	0.041		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Anthracene	0.13		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Benzo(a)anthracene	0.35		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Benzo(a)pyrene	0.24		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Benzo(b)fluoranthene	0.45		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Benzo(g,h,i)perylene	0.10		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Benzo(k)fluoranthene	0.096		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Chrysene	0.40		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Dibenzo(a,h)anthracene	0.049		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Fluoranthene	1.0		0.030	0.030	0.030	mg/Kg-dry	40	6/24/2016 8:21 PM
Fluorene	0.096		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Indeno(1,2,3-cd)pyrene	0.11		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Naphthalene	0.018		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Phenanthrene	0.29		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Pyrene	0.68		0.015	0.015	0.015	mg/Kg-dry	20	6/20/2016 7:20 PM
Surr: 2-Fluorobiphenyl	90.4			46-115		%Rec	20	6/20/2016 7:20 PM
Surr: Nitrobenzene-d5	0	QU		44-125		%Rec	20	6/20/2016 7:20 PM
Surr: Terphenyl-d14	111			58-133		%Rec	20	6/20/2016 7:20 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.0025	U	0.0012	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
1,1,1-Trichloroethane	0.0025	U	0.00089	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
1,1,2,2-Tetrachloroethane	0.0025	U	0.0022	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
1,1,2-Trichloroethane	0.0025	U	0.0016	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
1,1-Dichloroethane	0.0025	U	0.00063	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
1,1-Dichloroethene	0.0025	U	0.00086	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
1,2,3-Trichloropropane	0.0025	U	0.0015	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
1,2-Dibromo-3-chloropropane	0.0084	U	0.0059	0.0084	0.021	mg/Kg-dry	3.65	6/14/2016 11:07 AM
1,2-Dibromoethane	0.0025	U	0.0019	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
1,2-Dichloroethane	0.0025	U	0.00057	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
1,2-Dichloropropane	0.0025	U	0.0012	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
2-Butanone [MEK]	0.042	U	0.025	0.042	0.084	mg/Kg-dry	3.65	6/14/2016 11:07 AM
2-Hexanone	0.0084	U	0.0026	0.0084	0.021	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Acetone	0.060	YQ	0.0038	0.0084	0.042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Benzene	0.0025	U	0.0011	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:20:00 AM
Project:	Camp Hero		
Lab ID:	1606293-003	**Matrix:**	Soil
Client Sample ID:	H20-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.0025	U	0.00085	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Bromoform	0.0025	UQ	0.0014	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Carbon disulfide	0.0025	U	0.00078	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Carbon tetrachloride	0.0025	U	0.00090	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Chlorobenzene	0.0025	U	0.00080	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Chlorodibromomethane	0.0025	U	0.0015	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Chloroethane	0.0042	U	0.0032	0.0042	0.0084	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Chloroform	0.0025	U	0.0020	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Chloromethane	0.0025	U	0.0014	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
cis-1,2-Dichloroethene	0.0025	U	0.0024	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
cis-1,3-Dichloropropene	0.0025	U	0.00068	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Dichlorodifluoromethane [Freon-12]	0.0025	U	0.0016	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Ethylbenzene	0.0025	U	0.00094	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Methylene chloride	0.0084	UB	0.0045	0.0084	0.021	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Styrene	0.0025	U	0.00096	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Tetrachloroethene	0.0025	U	0.0014	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Toluene	0.0025	UQ	0.0011	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
trans-1,2-Dichloroethene	0.0025	U	0.00079	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
trans-1,3-Dichloropropene	0.0025	U	0.00096	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Trichloroethene	0.0025	U	0.0016	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Trichlorofluoromethane [Freon-11]	0.0025	UY	0.00094	0.0025	0.0042	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Vinyl acetate	0.0025	UY	0.0020	0.0025	0.021	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Vinyl chloride	0.0025	U	0.0013	0.0025	0.0034	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Xylene (Total)	0.0076	U	0.0019	0.0076	0.013	mg/Kg-dry	3.65	6/14/2016 11:07 AM
Surr: 4-Bromofluorobenzene	86.8			79-119		%Rec	3.65	6/14/2016 11:07 AM
Surr: Dibromofluoromethane	90.7			78-119		%Rec	3.65	6/14/2016 11:07 AM
Surr: Toluene-d8	86.9			85-116		%Rec	3.65	6/14/2016 11:07 AM

Percent Moisture — **Method: ASTM-D2216** — **Analyst: NS1**

Percent Moisture	13	1.0	1.0	1.0	wt%	1	6/9/2016 2:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:25:00 AM
Project:	Camp Hero		
Lab ID:	1606293-004	**Matrix:**	Soil
Client Sample ID:	H20-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0084	U	0.0038	0.0084	0.041	mg/Kg-dry	1	6/16/2016 10:25 PM
Aroclor 1221	0.0084	U	0.0037	0.0084	0.041	mg/Kg-dry	1	6/16/2016 10:25 PM
Aroclor 1232	0.0084	U	0.0056	0.0084	0.041	mg/Kg-dry	1	6/16/2016 10:25 PM
Aroclor 1242	0.0084	U	0.0047	0.0084	0.041	mg/Kg-dry	1	6/16/2016 10:25 PM
Aroclor 1248	0.0084	U	0.0044	0.0084	0.041	mg/Kg-dry	1	6/16/2016 10:25 PM
Aroclor 1254	0.0084	U	0.0053	0.0084	0.041	mg/Kg-dry	1	6/16/2016 10:25 PM
Aroclor 1260	0.0084	U	0.0037	0.0084	0.041	mg/Kg-dry	1	6/16/2016 10:25 PM
Aroclor 1262	0.0084	U	0.0037	0.0084	0.041	mg/Kg-dry	1	6/16/2016 10:25 PM
Aroclor 1268	0.0084	U	0.0031	0.0084	0.041	mg/Kg-dry	1	6/16/2016 10:25 PM
Surr: Tetrachloro-m-xylene	65.6			44-130		%Rec	1	6/16/2016 10:25 PM
Surr: Decachlorobiphenyl	70.1			60-125		%Rec	1	6/16/2016 10:25 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,500		62	160	410	mg/Kg-dry	100	6/16/2016 3:15 PM
Antimony	2.5		0.31	0.41	0.82	mg/Kg-dry	1	6/16/2016 1:12 PM
Arsenic	1.3	J	0.60	0.82	1.6	mg/Kg-dry	1	6/16/2016 1:12 PM
Barium	37		0.25	4.1	8.2	mg/Kg-dry	1	6/16/2016 1:12 PM
Beryllium	0.50		0.010	0.041	0.21	mg/Kg-dry	1	6/16/2016 1:12 PM
Cadmium	0.14	J	0.027	0.041	0.21	mg/Kg-dry	1	6/16/2016 1:12 PM
Calcium	1,300		2.4	8.2	41	mg/Kg-dry	1	6/16/2016 1:12 PM
Chromium	14	G	0.068	0.33	0.41	mg/Kg-dry	1	6/22/2016 2:42 PM
Cobalt	2.6		0.074	0.21	0.82	mg/Kg-dry	1	6/16/2016 1:12 PM
Copper	30		0.34	0.82	4.1	mg/Kg-dry	1	6/16/2016 1:12 PM
Iron	11,000		26	41	120	mg/Kg-dry	10	6/16/2016 2:24 PM
Lead	2.9	J	0.51	0.82	4.1	mg/Kg-dry	1	6/16/2016 1:12 PM
Magnesium	2,000		2.9	4.1	41	mg/Kg-dry	1	6/16/2016 1:12 PM
Manganese	110		0.15	0.21	0.82	mg/Kg-dry	1	6/22/2016 2:42 PM
Nickel	11		0.23	0.82	4.1	mg/Kg-dry	1	6/16/2016 1:12 PM
Potassium	1,300		1.9	8.2	16	mg/Kg-dry	1	6/16/2016 1:12 PM
Selenium	1.2	U	0.96	1.2	1.6	mg/Kg-dry	1	6/16/2016 1:12 PM
Silver	0.21	U	0.067	0.21	0.82	mg/Kg-dry	1	6/16/2016 1:12 PM
Sodium	120		1.7	4.1	41	mg/Kg-dry	1	6/16/2016 1:12 PM
Vanadium	15		0.10	0.82	2.1	mg/Kg-dry	1	6/16/2016 1:12 PM
Zinc	21		0.32	0.41	4.1	mg/Kg-dry	1	6/16/2016 1:12 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.079	JG	0.039	0.040	0.16	mg/Kg-dry	10	7/6/2016 3:30 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
1,2-Dichlorobenzene	0.022	U	0.0093	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
1,3-Dichlorobenzene	0.022	U	0.0090	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
1,4-Dichlorobenzene	0.022	U	0.0069	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
2,4,5-Trichlorophenol	0.043	U	0.021	0.043	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 10:25:00 AM
Project: Camp Hero
Lab ID: 1606293-004 **Matrix:** Soil
Client Sample ID: H20-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.043	U	0.024	0.043	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
2,4-Dichlorophenol	0.11	U	0.037	0.11	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
2,4-Dimethyl phenol	0.11	U	0.041	0.11	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
2,4-Dinitrophenol	0.22	UY	0.12	0.22	1.1	mg/Kg-dry	1	6/20/2016 2:38 PM
2,4-Dinitrotoluene	0.022	U	0.019	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
2,6-Dinitrotoluene	0.022	U	0.021	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
2-Chloronaphthalene	0.022	U	0.014	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
2-Chlorophenol	0.11	U	0.045	0.11	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
2-Methylphenol (o-Cresol)	0.11	U	0.047	0.11	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
2-Nitroaniline	0.022	U	0.011	0.022	0.42	mg/Kg-dry	1	6/20/2016 2:38 PM
2-Nitrophenol	0.11	U	0.054	0.11	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
3,3´-Dichlorobenzidine	0.86	U	0.55	0.86	1.3	mg/Kg-dry	1	6/20/2016 2:38 PM
3-Nitroaniline	0.022	U	0.015	0.022	0.42	mg/Kg-dry	1	6/20/2016 2:38 PM
3/4-Methylphenol [m/p-Cresol]	0.11	U	0.077	0.11	0.42	mg/Kg-dry	1	6/20/2016 2:38 PM
4,6-Dinitro-2-methylphenol	0.11	UY	0.062	0.11	0.42	mg/Kg-dry	1	6/20/2016 2:38 PM
4-Bromophenyl phenyl ether	0.11	U	0.055	0.11	0.26	mg/Kg-dry	1	6/20/2016 2:38 PM
4-Chloro-3-methylphenol	0.043	U	0.023	0.043	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
4-Chloroaniline [p-Chloroaniline]	0.11	U	0.033	0.11	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
4-Chlorophenyl phenyl ether	0.022	U	0.013	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
4-Nitroaniline	0.11	U	0.031	0.11	0.42	mg/Kg-dry	1	6/20/2016 2:38 PM
4-Nitrophenol	0.43	U	0.31	0.43	1.1	mg/Kg-dry	1	6/20/2016 2:38 PM
Benzoic acid	0.43	UYZ	0.17	0.43	1.3	mg/Kg-dry	1	6/20/2016 2:38 PM
Benzyl alcohol	0.022	U	0.010	0.022	0.86	mg/Kg-dry	1	6/20/2016 2:38 PM
Bis(2-chloroethoxy) methane	0.022	U	0.0090	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Bis(2-chloroethyl) ether	0.043	U	0.023	0.043	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Bis(2-chloroisopropyl)ether	0.022	UYZ	0.0099	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Bis(2-ethylhexyl) phthalate	0.043	U	0.038	0.043	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Butyl benzyl phthalate	0.043	U	0.026	0.043	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Carbazole	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Di-n-butyl phthalate	0.043	U	0.023	0.043	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Di-n-octyl phthalate	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Dibenzofuran	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Diethyl phthalate	0.022	U	0.016	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Dimethyl phthalate	0.022	U	0.014	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Hexachlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Hexachlorobutadiene	0.022	U	0.020	0.022	0.065	mg/Kg-dry	1	6/20/2016 2:38 PM
Hexachloroethane	0.022	U	0.010	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Isophorone	0.022	U	0.0090	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
N-Nitrosodi-n-propylamine	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
N-Nitrosodimethylamine	0.022	UY	0.011	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
N-Nitrosodiphenylamine	0.022	U	0.010	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Nitrobenzene	0.022	U	0.013	0.022	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Pentachlorophenol	0.11	UY	0.081	0.11	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Phenol	0.11	U	0.046	0.11	0.21	mg/Kg-dry	1	6/20/2016 2:38 PM
Surr: 2,4,6-Tribromophenol	64.5			39-132		%Rec	1	6/20/2016 2:38 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 10:25:00 AM
Project: Camp Hero
Lab ID: 1606293-004 **Matrix:** Soil
Client Sample ID: H20-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	57.6			44-115		%Rec	1	6/20/2016 2:38 PM
Surr: 2-Fluorophenol	46.1			35-115		%Rec	1	6/20/2016 2:38 PM
Surr: Nitrobenzene-d5	49.4			37-122		%Rec	1	6/20/2016 2:38 PM
Surr: Phenol-d5	44.6			33-122		%Rec	1	6/20/2016 2:38 PM
Surr: Terphenyl-d14	64.7			54-127		%Rec	1	6/20/2016 2:38 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: MB**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
2-Methylnaphthalene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Acenaphthene	0.013		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Acenaphthylene	0.0058		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Anthracene	0.0074		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Benzo(a)anthracene	0.061		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Benzo(a)pyrene	0.030		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Benzo(b)fluoranthene	0.068		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Benzo(g,h,i)perylene	0.015		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Benzo(k)fluoranthene	0.021		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Chrysene	0.051		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Dibenzo(a,h)anthracene	0.0045		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Fluoranthene	0.26		0.0083	0.0083	0.0083	mg/Kg-dry	10	6/24/2016 8:48 PM
Fluorene	0.0076		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Indeno(1,2,3-cd)pyrene	0.015		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Naphthalene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Phenanthrene	0.047		0.0025	0.0025	0.0025	mg/Kg-dry	3	6/20/2016 7:48 PM
Pyrene	0.20		0.0083	0.0083	0.0083	mg/Kg-dry	10	6/24/2016 8:48 PM
Surr: 2-Fluorobiphenyl	71.6			46-115		%Rec	3	6/20/2016 7:48 PM
Surr: Nitrobenzene-d5	71.1			44-125		%Rec	3	6/20/2016 7:48 PM
Surr: Terphenyl-d14	89.9			58-133		%Rec	3	6/20/2016 7:48 PM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.15	UQ	0.073	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
1,1,1-Trichloroethane	0.15	U	0.064	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
1,1,2,2-Tetrachloroethane	0.15	U	0.14	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
1,1,2-Trichloroethane	0.15	U	0.055	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
1,1-Dichloroethane	0.15	U	0.054	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
1,1-Dichloroethene	0.15	U	0.072	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
1,2,3-Trichloropropane	0.15	U	0.15	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
1,2-Dibromo-3-chloropropane	0.51	U	0.30	0.51	1.3	mg/Kg-dry	203.1	6/17/2016 8:21 PM
1,2-Dibromoethane	0.15	U	0.090	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
1,2-Dichloroethane	0.15	U	0.067	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
1,2-Dichloropropane	0.15	U	0.085	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
2-Butanone [MEK]	1.3	U	0.85	1.3	2.5	mg/Kg-dry	203.1	6/17/2016 8:21 PM
2-Hexanone	0.25	U	0.16	0.25	0.51	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Acetone	0.49	J	0.21	0.51	1.3	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Benzene	0.15	U	0.052	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:25:00 AM
Project:	Camp Hero		
Lab ID:	1606293-004	**Matrix:**	Soil
Client Sample ID:	H20-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.15	UQ	0.066	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Bromoform	0.15	UYQ	0.084	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Carbon disulfide	0.15	U	0.092	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Carbon tetrachloride	0.15	U	0.068	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Chlorobenzene	0.15	U	0.067	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Chlorodibromomethane	0.15	UQ	0.13	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Chloroethane	0.51	UYZ	0.37	0.51	1.3	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Chloroform	0.15	U	0.069	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Chloromethane	0.15	U	0.10	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
cis-1,2-Dichloroethene	0.15	U	0.15	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
cis-1,3-Dichloropropene	0.15	UQ	0.040	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Dichlorodifluoromethane [Freon-12]	0.51	U	0.22	0.51	1.3	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Ethylbenzene	0.15	U	0.057	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Methylene chloride	0.25	U	0.20	0.25	0.51	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Styrene	0.15	UQ	0.059	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Tetrachloroethene	0.15	U	0.13	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Toluene	0.15	U	0.068	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
trans-1,2-Dichloroethene	0.15	U	0.052	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
trans-1,3-Dichloropropene	0.15	UQ	0.069	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Trichloroethene	0.15	U	0.037	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Trichlorofluoromethane [Freon-11]	0.15	U	0.14	0.15	0.25	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Vinyl acetate	0.15	U	0.15	0.15	6.4	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Vinyl chloride	0.15	U	0.14	0.15	0.20	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Xylene (Total)	0.46	U	0.24	0.46	0.76	mg/Kg-dry	203.1	6/17/2016 8:21 PM
Surr: 4-Bromofluorobenzene	92.5			79-119		%Rec	203.1	6/17/2016 8:21 PM
Surr: Dibromofluoromethane	88.6			78-119		%Rec	203.1	6/17/2016 8:21 PM
Surr: Toluene-d8	88.7			85-116		%Rec	203.1	6/17/2016 8:21 PM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	20	1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:50:00 AM
Project:	Camp Hero		
Lab ID:	1606293-005	**Matrix:**	Soil
Client Sample ID:	H20-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0078	U	0.0035	0.0078	0.039	mg/Kg-dry	1	6/16/2016 10:49 PM
Aroclor 1221	0.0078	U	0.0035	0.0078	0.039	mg/Kg-dry	1	6/16/2016 10:49 PM
Aroclor 1232	0.0078	U	0.0053	0.0078	0.039	mg/Kg-dry	1	6/16/2016 10:49 PM
Aroclor 1242	0.0078	U	0.0044	0.0078	0.039	mg/Kg-dry	1	6/16/2016 10:49 PM
Aroclor 1248	0.0078	U	0.0041	0.0078	0.039	mg/Kg-dry	1	6/16/2016 10:49 PM
Aroclor 1254	0.0078	U	0.0050	0.0078	0.039	mg/Kg-dry	1	6/16/2016 10:49 PM
Aroclor 1260	0.0078	U	0.0034	0.0078	0.039	mg/Kg-dry	1	6/16/2016 10:49 PM
Aroclor 1262	0.0078	U	0.0034	0.0078	0.039	mg/Kg-dry	1	6/16/2016 10:49 PM
Aroclor 1268	0.0078	U	0.0029	0.0078	0.039	mg/Kg-dry	1	6/16/2016 10:49 PM
Surr: Tetrachloro-m-xylene	58.3			44-130		%Rec	1	6/16/2016 10:49 PM
Surr: Decachlorobiphenyl	59.1	Q		60-125		%Rec	1	6/16/2016 10:49 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,100		56	150	370	mg/Kg-dry	100	6/16/2016 12:15 PM
Antimony	3.2		0.28	0.37	0.75	mg/Kg-dry	1	6/16/2016 12:00 PM
Arsenic	2.0		0.54	0.75	1.5	mg/Kg-dry	1	6/16/2016 12:00 PM
Barium	40	X	0.22	3.7	7.5	mg/Kg-dry	1	6/16/2016 12:00 PM
Beryllium	0.38		0.0095	0.037	0.19	mg/Kg-dry	1	6/16/2016 12:00 PM
Cadmium	0.037	U	0.025	0.037	0.19	mg/Kg-dry	1	6/16/2016 12:00 PM
Calcium	1,000	X	2.2	7.5	37	mg/Kg-dry	1	6/16/2016 12:00 PM
Chromium	21	GX	0.062	0.30	0.37	mg/Kg-dry	1	6/22/2016 2:00 PM
Cobalt	3.3		0.067	0.19	0.75	mg/Kg-dry	1	6/16/2016 12:00 PM
Copper	67	X	0.31	0.75	3.7	mg/Kg-dry	1	6/16/2016 12:00 PM
Iron	26,000		230	370	1,100	mg/Kg-dry	100	6/16/2016 12:15 PM
Lead	3.0	J	0.47	0.75	3.7	mg/Kg-dry	1	6/16/2016 12:00 PM
Magnesium	2,400		26	37	370	mg/Kg-dry	10	6/16/2016 12:12 PM
Manganese	180	X	0.14	0.19	0.75	mg/Kg-dry	1	6/22/2016 2:00 PM
Nickel	16	X	0.21	0.75	3.7	mg/Kg-dry	1	6/16/2016 12:00 PM
Potassium	1,600	X	1.7	7.5	15	mg/Kg-dry	1	6/16/2016 12:00 PM
Selenium	1.1	UX	0.87	1.1	1.5	mg/Kg-dry	1	6/16/2016 12:00 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	6/16/2016 12:00 PM
Sodium	110		1.5	3.7	37	mg/Kg-dry	1	6/16/2016 12:00 PM
Vanadium	18	X	0.095	0.75	1.9	mg/Kg-dry	1	6/16/2016 12:00 PM
Zinc	26		0.29	0.37	3.7	mg/Kg-dry	1	6/16/2016 12:00 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.14	JG	0.037	0.038	0.15	mg/Kg-dry	10	7/6/2016 3:11 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
1,2-Dichlorobenzene	0.019	U	0.0083	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
1,3-Dichlorobenzene	0.019	U	0.0080	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
1,4-Dichlorobenzene	0.019	U	0.0062	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
2,4,5-Trichlorophenol	0.039	U	0.019	0.039	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:50:00 AM
Project:	Camp Hero		
Lab ID:	1606293-005	**Matrix:**	Soil
Client Sample ID:	H20-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.039	U	0.021	0.039	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
2,4-Dichlorophenol	0.096	U	0.033	0.096	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
2,4-Dimethyl phenol	0.096	U	0.037	0.096	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
2,4-Dinitrophenol	0.19	UY Q	0.11	0.19	0.96	mg/Kg-dry	1	6/14/2016 6:47 PM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
2-Chlorophenol	0.096	U	0.040	0.096	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
2-Methylphenol (o-Cresol)	0.096	U	0.041	0.096	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
2-Nitroaniline	0.019	U	0.0094	0.019	0.37	mg/Kg-dry	1	6/14/2016 6:47 PM
2-Nitrophenol	0.096	UY	0.048	0.096	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
3,3´-Dichlorobenzidine	0.77	UX	0.49	0.77	1.2	mg/Kg-dry	1	6/14/2016 6:47 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	6/14/2016 6:47 PM
3/4-Methylphenol [m/p-Cresol]	0.096	U	0.069	0.096	0.37	mg/Kg-dry	1	6/14/2016 6:47 PM
4,6-Dinitro-2-methylphenol	0.096	UY	0.055	0.096	0.37	mg/Kg-dry	1	6/14/2016 6:47 PM
4-Bromophenyl phenyl ether	0.096	U	0.049	0.096	0.23	mg/Kg-dry	1	6/14/2016 6:47 PM
4-Chloro-3-methylphenol	0.039	U	0.020	0.039	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
4-Chloroaniline [p-Chloroaniline]	0.096	U	0.029	0.096	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
4-Nitroaniline	0.096	U	0.028	0.096	0.37	mg/Kg-dry	1	6/14/2016 6:47 PM
4-Nitrophenol	0.39	U	0.28	0.39	0.96	mg/Kg-dry	1	6/14/2016 6:47 PM
Benzoic acid	0.39	UQ XZ	0.16	0.39	1.2	mg/Kg-dry	1	6/14/2016 6:47 PM
Benzyl alcohol	0.019	U	0.0093	0.019	0.76	mg/Kg-dry	1	6/14/2016 6:47 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0080	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Bis(2-chloroethyl) ether	0.039	U	0.021	0.039	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0088	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Bis(2-ethylhexyl) phthalate	0.039	U	0.034	0.039	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Butyl benzyl phthalate	0.039	U	0.023	0.039	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Carbazole	0.019	U	0.013	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Di-n-butyl phthalate	0.039	U	0.021	0.039	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Dibenzofuran	0.019	U	0.0098	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Hexachlorobutadiene	0.019	U	0.018	0.019	0.058	mg/Kg-dry	1	6/14/2016 6:47 PM
Hexachloroethane	0.019	U	0.0089	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Isophorone	0.019	U	0.0080	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
N-Nitrosodi-n-propylamine	0.019	UX	0.011	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
N-Nitrosodimethylamine	0.019	U	0.0094	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
N-Nitrosodiphenylamine	0.019	U	0.0093	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Nitrobenzene	0.019	U	0.012	0.019	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Pentachlorophenol	0.096	UY	0.073	0.096	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Phenol	0.096	U	0.041	0.096	0.19	mg/Kg-dry	1	6/14/2016 6:47 PM
Surr: 2,4,6-Tribromophenol	70.8			39-132		%Rec	1	6/14/2016 6:47 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 10:50:00 AM
Project: Camp Hero
Lab ID: 1606293-005 **Matrix:** Soil
Client Sample ID: H20-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	62.9			44-115		%Rec	1	6/14/2016 6:47 PM
Surr: 2-Fluorophenol	60.0			35-115		%Rec	1	6/14/2016 6:47 PM
Surr: Nitrobenzene-d5	61.9			37-122		%Rec	1	6/14/2016 6:47 PM
Surr: Phenol-d5	61.4			33-122		%Rec	1	6/14/2016 6:47 PM
Surr: Terphenyl-d14	69.5			54-127		%Rec	1	6/14/2016 6:47 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: MB**
1-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
2-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Acenaphthene	0.0033		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Acenaphthylene	0.0022		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Anthracene	0.0029		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Benzo(a)anthracene	0.017	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Benzo(a)pyrene	0.011		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Benzo(b)fluoranthene	0.021		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Benzo(g,h,i)perylene	0.0053		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Benzo(k)fluoranthene	0.0078	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Chrysene	0.019	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Dibenzo(a,h)anthracene	0.0019		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Fluoranthene	0.032	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Fluorene	0.0024		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Indeno(1,2,3-cd)pyrene	0.0057		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Naphthalene	0.00097		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Phenanthrene	0.0077	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Pyrene	0.027	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/20/2016 8:16 PM
Surr: 2-Fluorobiphenyl	72.3			46-115		%Rec	1	6/20/2016 8:16 PM
Surr: Nitrobenzene-d5	79.9			44-125		%Rec	1	6/20/2016 8:16 PM
Surr: Terphenyl-d14	86.6			58-133		%Rec	1	6/20/2016 8:16 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00065	U	0.00031	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
1,1,1-Trichloroethane	0.00065	U	0.00023	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
1,1,2,2-Tetrachloroethane	0.00065	U	0.00057	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
1,1,2-Trichloroethane	0.00065	U	0.00042	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
1,1-Dichloroethane	0.00065	U	0.00016	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
1,1-Dichloroethene	0.00065	U	0.00022	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
1,2,3-Trichloropropane	0.00065	U	0.00038	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
1,2-Dibromo-3-chloropropane	0.0022	U	0.0015	0.0022	0.0054	mg/Kg-dry	0.92	6/14/2016 5:17 PM
1,2-Dibromoethane	0.00065	U	0.00049	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
1,2-Dichloroethane	0.00065	U	0.00015	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
1,2-Dichloropropane	0.00065	U	0.00030	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
2-Butanone [MEK]	0.0069	J	0.0064	0.011	0.022	mg/Kg-dry	0.92	6/14/2016 5:17 PM
2-Hexanone	0.0022	U	0.00068	0.0022	0.0054	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Acetone	0.15	YQ	0.00099	0.0022	0.011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Benzene	0.00065	U	0.00029	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 10:50:00 AM
Project:	Camp Hero		
Lab ID:	1606293-005	**Matrix:**	Soil
Client Sample ID:	H20-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.00065	U	0.00022	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Bromoform	0.00065	UQ	0.00035	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Carbon disulfide	0.00065	U	0.00020	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Carbon tetrachloride	0.00065	U	0.00023	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Chlorobenzene	0.00065	U	0.00020	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Chlorodibromomethane	0.00065	U	0.00038	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Chloroethane	0.0011	U	0.00082	0.0011	0.0022	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Chloroform	0.00065	U	0.00051	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Chloromethane	0.00065	U	0.00037	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
cis-1,2-Dichloroethene	0.00065	U	0.00061	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
cis-1,3-Dichloropropene	0.00065	U	0.00017	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Dichlorodifluoromethane [Freon-12]	0.00065	U	0.00041	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Ethylbenzene	0.00065	U	0.00024	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Methylene chloride	0.0022	UB	0.0011	0.0022	0.0054	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Styrene	0.00065	U	0.00025	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Tetrachloroethene	0.00065	U	0.00035	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Toluene	0.00065	UQ	0.00029	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
trans-1,2-Dichloroethene	0.00065	U	0.00020	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
trans-1,3-Dichloropropene	0.00065	U	0.00025	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Trichloroethene	0.00065	U	0.00041	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Trichlorofluoromethane [Freon-11]	0.00065	UY	0.00024	0.00065	0.0011	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Vinyl acetate	0.00065	UY	0.00051	0.00065	0.0054	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Vinyl chloride	0.00065	U	0.00033	0.00065	0.00087	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Xylene (Total)	0.0019	U	0.00049	0.0019	0.0032	mg/Kg-dry	0.92	6/14/2016 5:17 PM
Surr: 4-Bromofluorobenzene	81.2			79-119		%Rec	0.92	6/14/2016 5:17 PM
Surr: Dibromofluoromethane	94.0			78-119		%Rec	0.92	6/14/2016 5:17 PM
Surr: Toluene-d8	88.6			85-116		%Rec	0.92	6/14/2016 5:17 PM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/6/2016 2:15:00 PM
Project:	Camp Hero		
Lab ID:	1606293-006	**Matrix:**	Soil
Client Sample ID:	H9-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		63	170	420	mg/Kg-dry	100	6/16/2016 3:18 PM
Antimony	4.4		0.32	0.42	0.85	mg/Kg-dry	1	6/16/2016 1:15 PM
Arsenic	2.8		0.61	0.85	1.7	mg/Kg-dry	1	6/16/2016 1:15 PM
Barium	29		0.25	4.2	8.5	mg/Kg-dry	1	6/16/2016 1:15 PM
Beryllium	0.46		0.011	0.042	0.21	mg/Kg-dry	1	6/16/2016 1:15 PM
Cadmium	0.043	J	0.028	0.042	0.21	mg/Kg-dry	1	6/16/2016 1:15 PM
Calcium	600		2.5	8.5	42	mg/Kg-dry	1	6/16/2016 1:15 PM
Chromium	15	G	0.070	0.34	0.42	mg/Kg-dry	1	6/22/2016 2:44 PM
Cobalt	4.6		0.076	0.21	0.85	mg/Kg-dry	1	6/16/2016 1:15 PM
Copper	40		0.35	0.85	4.2	mg/Kg-dry	1	6/16/2016 1:15 PM
Iron	19,000		26	42	130	mg/Kg-dry	10	6/16/2016 2:27 PM
Lead	4.8		0.53	0.85	4.2	mg/Kg-dry	1	6/16/2016 1:15 PM
Magnesium	1,600		3.0	4.2	42	mg/Kg-dry	1	6/16/2016 1:15 PM
Manganese	440		1.6	2.1	8.5	mg/Kg-dry	10	6/22/2016 3:07 PM
Nickel	9.1		0.24	0.85	4.2	mg/Kg-dry	1	6/16/2016 1:15 PM
Potassium	990		2.0	8.5	17	mg/Kg-dry	1	6/16/2016 1:15 PM
Selenium	1.3	U	0.98	1.3	1.7	mg/Kg-dry	1	6/16/2016 1:15 PM
Silver	0.21	U	0.069	0.21	0.85	mg/Kg-dry	1	6/16/2016 1:15 PM
Sodium	66		1.7	4.2	42	mg/Kg-dry	1	6/16/2016 1:15 PM
Vanadium	26		0.11	0.85	2.1	mg/Kg-dry	1	6/16/2016 1:15 PM
Zinc	20		0.33	0.42	4.2	mg/Kg-dry	1	6/16/2016 1:15 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.060	JG	0.041	0.043	0.17	mg/Kg-dry	10	7/6/2016 3:31 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: MB**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.017	U	0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
2-Methylnaphthalene	0.017	U	0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Acenaphthene	0.018		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Acenaphthylene	0.017	U	0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Anthracene	0.079		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Benzo(a)anthracene	0.24		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Benzo(a)pyrene	0.18		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Benzo(b)fluoranthene	0.25		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Benzo(g,h,i)perylene	0.10		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Benzo(k)fluoranthene	0.095		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Chrysene	0.17		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Dibenzo(a,h)anthracene	0.037		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Fluoranthene	0.52		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Fluorene	0.023		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Indeno(1,2,3-cd)pyrene	0.10		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Naphthalene	0.017	U	0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Phenanthrene	0.20		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM
Pyrene	0.32		0.017	0.017	0.017	mg/Kg-dry	20	6/20/2016 9:40 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/6/2016 2:15:00 PM
Project:	Camp Hero		
Lab ID:	1606293-006	**Matrix:**	Soil
Client Sample ID:	H9-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	0	QU		46-115		%Rec	20	6/20/2016 9:40 PM
Surr: Nitrobenzene-d5	0	QU		44-125		%Rec	20	6/20/2016 9:40 PM
Surr: Terphenyl-d14	90.1			58-133		%Rec	20	6/20/2016 9:40 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	23		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:10:00 AM
Project: Camp Hero
Lab ID: 1606293-007 **Matrix:** Soil
Client Sample ID: H3-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	6/17/2016 12:02 AM
Aroclor 1221	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	6/17/2016 12:02 AM
Aroclor 1232	0.0081	U	0.0054	0.0081	0.040	mg/Kg-dry	1	6/17/2016 12:02 AM
Aroclor 1242	0.0081	U	0.0045	0.0081	0.040	mg/Kg-dry	1	6/17/2016 12:02 AM
Aroclor 1248	0.0081	U	0.0043	0.0081	0.040	mg/Kg-dry	1	6/17/2016 12:02 AM
Aroclor 1254	0.0081	U	0.0051	0.0081	0.040	mg/Kg-dry	1	6/17/2016 12:02 AM
Aroclor 1260	0.0081	U	0.0035	0.0081	0.040	mg/Kg-dry	1	6/17/2016 12:02 AM
Aroclor 1262	0.0081	U	0.0035	0.0081	0.040	mg/Kg-dry	1	6/17/2016 12:02 AM
Aroclor 1268	0.0081	U	0.0030	0.0081	0.040	mg/Kg-dry	1	6/17/2016 12:02 AM
Surr: Tetrachloro-m-xylene	53.1			44-130		%Rec	1	6/17/2016 12:02 AM
Surr: Decachlorobiphenyl	62.2			60-125		%Rec	1	6/17/2016 12:02 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,200		59	160	390	mg/Kg-dry	100	7/13/2016 2:32 PM
Antimony	0.91		0.30	0.39	0.79	mg/Kg-dry	1	7/13/2016 12:50 PM
Arsenic	1.6	J	0.57	0.79	1.6	mg/Kg-dry	1	7/13/2016 12:50 PM
Barium	12		0.23	3.9	7.9	mg/Kg-dry	1	7/13/2016 12:50 PM
Beryllium	0.039	U	0.010	0.039	0.20	mg/Kg-dry	1	7/13/2016 12:50 PM
Cadmium	0.045	J	0.026	0.039	0.20	mg/Kg-dry	1	7/13/2016 12:50 PM
Calcium	390		2.3	7.9	39	mg/Kg-dry	1	7/13/2016 12:50 PM
Chromium	9.8		0.065	0.32	0.39	mg/Kg-dry	1	7/13/2016 12:50 PM
Cobalt	0.89		0.071	0.20	0.79	mg/Kg-dry	1	7/13/2016 12:50 PM
Copper	26		0.33	0.79	3.9	mg/Kg-dry	1	7/13/2016 12:50 PM
Iron	12,000		25	39	120	mg/Kg-dry	10	7/13/2016 1:31 PM
Lead	8.3		0.49	0.79	3.9	mg/Kg-dry	1	7/13/2016 12:50 PM
Magnesium	480		2.8	3.9	39	mg/Kg-dry	1	7/13/2016 12:50 PM
Manganese	69		0.15	0.20	0.79	mg/Kg-dry	1	7/13/2016 12:50 PM
Nickel	2.8	J	0.22	0.79	3.9	mg/Kg-dry	1	7/13/2016 12:50 PM
Potassium	310		1.8	7.9	16	mg/Kg-dry	1	7/13/2016 12:50 PM
Selenium	1.2	U	0.92	1.2	1.6	mg/Kg-dry	1	7/13/2016 12:50 PM
Silver	0.20	U	0.064	0.20	0.79	mg/Kg-dry	1	7/13/2016 12:50 PM
Sodium	76		1.6	3.9	39	mg/Kg-dry	1	7/13/2016 12:50 PM
Vanadium	21		0.10	0.79	2.0	mg/Kg-dry	1	7/13/2016 12:50 PM
Zinc	16		0.30	0.39	3.9	mg/Kg-dry	1	7/13/2016 12:50 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.054	JG	0.039	0.040	0.16	mg/Kg-dry	10	7/6/2016 3:31 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
1,2-Dichlorobenzene	0.020	U	0.0087	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
1,3-Dichlorobenzene	0.020	U	0.0083	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
1,4-Dichlorobenzene	0.020	U	0.0064	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
2,4,5-Trichlorophenol	0.040	U	0.020	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:10:00 AM
Project: Camp Hero
Lab ID: 1606293-007 **Matrix:** Soil
Client Sample ID: H3-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
2,4-Dichlorophenol	0.10	U	0.035	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
2,4-Dimethyl phenol	0.10	U	0.039	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
2,4-Dinitrophenol	0.20	UYQ	0.11	0.20	1.0	mg/Kg-dry	1	6/14/2016 8:01 PM
2,4-Dinitrotoluene	0.020	U	0.018	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
2,6-Dinitrotoluene	0.020	U	0.019	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
2-Chloronaphthalene	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
2-Chlorophenol	0.10	U	0.042	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
2-Methylphenol (o-Cresol)	0.10	U	0.043	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
2-Nitroaniline	0.020	U	0.0098	0.020	0.39	mg/Kg-dry	1	6/14/2016 8:01 PM
2-Nitrophenol	0.10	UY	0.050	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
3,3´-Dichlorobenzidine	0.80	U	0.51	0.80	1.2	mg/Kg-dry	1	6/14/2016 8:01 PM
3-Nitroaniline	0.020	U	0.014	0.020	0.39	mg/Kg-dry	1	6/14/2016 8:01 PM
3/4-Methylphenol [m/p-Cresol]	0.10	U	0.072	0.10	0.39	mg/Kg-dry	1	6/14/2016 8:01 PM
4,6-Dinitro-2-methylphenol	0.10	UY	0.058	0.10	0.39	mg/Kg-dry	1	6/14/2016 8:01 PM
4-Bromophenyl phenyl ether	0.10	U	0.051	0.10	0.24	mg/Kg-dry	1	6/14/2016 8:01 PM
4-Chloro-3-methylphenol	0.040	U	0.021	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
4-Chloroaniline [p-Chloroaniline]	0.10	U	0.030	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
4-Chlorophenyl phenyl ether	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
4-Nitroaniline	0.10	U	0.029	0.10	0.39	mg/Kg-dry	1	6/14/2016 8:01 PM
4-Nitrophenol	0.40	U	0.29	0.40	1.0	mg/Kg-dry	1	6/14/2016 8:01 PM
Benzoic acid	0.65	JQZ	0.16	0.40	1.2	mg/Kg-dry	1	6/14/2016 8:01 PM
Benzyl alcohol	0.020	U	0.0097	0.020	0.80	mg/Kg-dry	1	6/14/2016 8:01 PM
Bis(2-chloroethoxy) methane	0.020	U	0.0084	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Bis(2-chloroethyl) ether	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Bis(2-chloroisopropyl)ether	0.020	UZ	0.0092	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Bis(2-ethylhexyl) phthalate	0.040	U	0.036	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Butyl benzyl phthalate	0.040	U	0.024	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Carbazole	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Di-n-butyl phthalate	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Di-n-octyl phthalate	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Dibenzofuran	0.020	U	0.010	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Diethyl phthalate	0.020	U	0.015	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Dimethyl phthalate	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Hexachlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Hexachlorobutadiene	0.020	U	0.018	0.020	0.060	mg/Kg-dry	1	6/14/2016 8:01 PM
Hexachloroethane	0.020	U	0.0093	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Isophorone	0.020	U	0.0083	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
N-Nitrosodi-n-propylamine	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
N-Nitrosodimethylamine	0.020	U	0.0098	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
N-Nitrosodiphenylamine	0.020	U	0.0097	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Nitrobenzene	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Pentachlorophenol	0.10	UY	0.076	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Phenol	0.10	U	0.043	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:01 PM
Surr: 2,4,6-Tribromophenol	77.5			39-132		%Rec	1	6/14/2016 8:01 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:10:00 AM
Project: Camp Hero
Lab ID: 1606293-007 **Matrix:** Soil
Client Sample ID: H3-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	62.1			44-115		%Rec	1	6/14/2016 8:01 PM
Surr: 2-Fluorophenol	49.8			35-115		%Rec	1	6/14/2016 8:01 PM
Surr: Nitrobenzene-d5	56.8			37-122		%Rec	1	6/14/2016 8:01 PM
Surr: Phenol-d5	58.4			33-122		%Rec	1	6/14/2016 8:01 PM
Surr: Terphenyl-d14	75.6			54-127		%Rec	1	6/14/2016 8:01 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: MB**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
2-Methylnaphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Acenaphthene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Acenaphthylene	0.0011		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Anthracene	0.0018		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Benzo(a)anthracene	0.011		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Benzo(a)pyrene	0.013		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Benzo(b)fluoranthene	0.023		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Benzo(g,h,i)perylene	0.0050		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Benzo(k)fluoranthene	0.0065		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Chrysene	0.012		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Dibenzo(a,h)anthracene	0.0015		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Fluoranthene	0.026		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Fluorene	0.00099		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Indeno(1,2,3-cd)pyrene	0.0052		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Naphthalene	0.00099		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Phenanthrene	0.012		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Pyrene	0.020		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 10:08 PM
Surr: 2-Fluorobiphenyl	63.1			46-115		%Rec	1	6/20/2016 10:08 PM
Surr: Nitrobenzene-d5	68.5			44-125		%Rec	1	6/20/2016 10:08 PM
Surr: Terphenyl-d14	78.1			58-133		%Rec	1	6/20/2016 10:08 PM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.084	UQ	0.040	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
1,1,1-Trichloroethane	0.084	U	0.035	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
1,1,2,2-Tetrachloroethane	0.084	U	0.074	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
1,1,2-Trichloroethane	0.084	U	0.030	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
1,1-Dichloroethane	0.084	U	0.030	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
1,1-Dichloroethene	0.084	U	0.040	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
1,2,3-Trichloropropane	0.084	U	0.080	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
1,2-Dibromo-3-chloropropane	0.28	U	0.17	0.28	0.70	mg/Kg-dry	115.4	6/17/2016 8:46 PM
1,2-Dibromoethane	0.084	U	0.050	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
1,2-Dichloroethane	0.084	U	0.037	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
1,2-Dichloropropane	0.084	U	0.046	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
2-Butanone [MEK]	0.70	U	0.46	0.70	1.4	mg/Kg-dry	115.4	6/17/2016 8:46 PM
2-Hexanone	0.14	U	0.088	0.14	0.28	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Acetone	0.19	J	0.12	0.28	0.70	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Benzene	0.084	U	0.028	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:10:00 AM
Project: Camp Hero
Lab ID: 1606293-007 **Matrix:** Soil
Client Sample ID: H3-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.084	UQ	0.036	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Bromoform	0.084	UYQ	0.046	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Carbon disulfide	0.084	U	0.051	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Carbon tetrachloride	0.084	U	0.038	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Chlorobenzene	0.084	U	0.037	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Chlorodibromomethane	0.084	UQ	0.069	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Chloroethane	0.28	UYZ	0.20	0.28	0.70	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Chloroform	0.084	U	0.038	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Chloromethane	0.084	U	0.056	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
cis-1,2-Dichloroethene	0.084	U	0.081	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
cis-1,3-Dichloropropene	0.084	UQ	0.022	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Dichlorodifluoromethane [Freon-12]	0.28	U	0.12	0.28	0.70	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Ethylbenzene	0.084	U	0.031	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Methylene chloride	0.14	U	0.11	0.14	0.28	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Styrene	0.084	UQ	0.032	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Tetrachloroethene	0.084	U	0.072	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Toluene	0.084	U	0.038	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
trans-1,2-Dichloroethene	0.084	U	0.028	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
trans-1,3-Dichloropropene	0.084	UQ	0.038	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Trichloroethene	0.084	U	0.020	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Trichlorofluoromethane [Freon-11]	0.084	U	0.078	0.084	0.14	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Vinyl acetate	0.084	U	0.081	0.084	3.5	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Vinyl chloride	0.084	U	0.077	0.084	0.11	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Xylene (Total)	0.25	U	0.13	0.25	0.42	mg/Kg-dry	115.4	6/17/2016 8:46 PM
Surr: 4-Bromofluorobenzene	92.2			79-119		%Rec	115.4	6/17/2016 8:46 PM
Surr: Dibromofluoromethane	89.1			78-119		%Rec	115.4	6/17/2016 8:46 PM
Surr: Toluene-d8	88.3			85-116		%Rec	115.4	6/17/2016 8:46 PM

Percent Moisture **Method: ASTM-D2216** **Analyst: NS1**

Percent Moisture	18		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606293-008	**Matrix:**	Soil
Client Sample ID:	H3-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0080	U	0.0036	0.0080	0.040	mg/Kg-dry	1	6/17/2016 12:27 AM
Aroclor 1221	0.0080	U	0.0036	0.0080	0.040	mg/Kg-dry	1	6/17/2016 12:27 AM
Aroclor 1232	0.0080	U	0.0054	0.0080	0.040	mg/Kg-dry	1	6/17/2016 12:27 AM
Aroclor 1242	0.0080	U	0.0045	0.0080	0.040	mg/Kg-dry	1	6/17/2016 12:27 AM
Aroclor 1248	0.0080	U	0.0042	0.0080	0.040	mg/Kg-dry	1	6/17/2016 12:27 AM
Aroclor 1254	0.0080	U	0.0051	0.0080	0.040	mg/Kg-dry	1	6/17/2016 12:27 AM
Aroclor 1260	0.0080	U	0.0035	0.0080	0.040	mg/Kg-dry	1	6/17/2016 12:27 AM
Aroclor 1262	0.0080	U	0.0035	0.0080	0.040	mg/Kg-dry	1	6/17/2016 12:27 AM
Aroclor 1268	0.0080	U	0.0029	0.0080	0.040	mg/Kg-dry	1	6/17/2016 12:27 AM
Surr: Tetrachloro-m-xylene	82.0			44-130		%Rec	1	6/17/2016 12:27 AM
Surr: Decachlorobiphenyl	82.9			60-125		%Rec	1	6/17/2016 12:27 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	14,000		59	160	390	mg/Kg-dry	100	7/13/2016 2:33 PM
Antimony	1.7		0.30	0.39	0.79	mg/Kg-dry	1	7/13/2016 12:51 PM
Arsenic	2.1		0.57	0.79	1.6	mg/Kg-dry	1	7/13/2016 12:51 PM
Barium	19		0.23	3.9	7.9	mg/Kg-dry	1	7/13/2016 12:51 PM
Beryllium	0.10	J	0.010	0.039	0.20	mg/Kg-dry	1	7/13/2016 12:51 PM
Cadmium	0.030	J	0.026	0.039	0.20	mg/Kg-dry	1	7/13/2016 12:51 PM
Calcium	460		2.3	7.9	39	mg/Kg-dry	1	7/13/2016 12:51 PM
Chromium	15		0.065	0.32	0.39	mg/Kg-dry	1	7/13/2016 12:51 PM
Cobalt	1.8		0.071	0.20	0.79	mg/Kg-dry	1	7/13/2016 12:51 PM
Copper	31		0.33	0.79	3.9	mg/Kg-dry	1	7/13/2016 12:51 PM
Iron	15,000		25	39	120	mg/Kg-dry	10	7/13/2016 1:32 PM
Lead	5.6		0.49	0.79	3.9	mg/Kg-dry	1	7/13/2016 12:51 PM
Magnesium	1,100		2.8	3.9	39	mg/Kg-dry	1	7/13/2016 12:51 PM
Manganese	82		0.15	0.20	0.79	mg/Kg-dry	1	7/13/2016 12:51 PM
Nickel	6.4		0.22	0.79	3.9	mg/Kg-dry	1	7/13/2016 12:51 PM
Potassium	350		1.8	7.9	16	mg/Kg-dry	1	7/13/2016 12:51 PM
Selenium	1.2	U	0.92	1.2	1.6	mg/Kg-dry	1	7/13/2016 12:51 PM
Silver	0.20	U	0.064	0.20	0.79	mg/Kg-dry	1	7/13/2016 12:51 PM
Sodium	82		1.6	3.9	39	mg/Kg-dry	1	7/13/2016 12:51 PM
Vanadium	22		0.10	0.79	2.0	mg/Kg-dry	1	7/13/2016 12:51 PM
Zinc	31		0.30	0.39	3.9	mg/Kg-dry	1	7/13/2016 12:51 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.066	JG	0.039	0.040	0.16	mg/Kg-dry	10	7/6/2016 3:32 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
1,2-Dichlorobenzene	0.020	U	0.0087	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
1,3-Dichlorobenzene	0.020	U	0.0083	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
1,4-Dichlorobenzene	0.020	U	0.0064	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
2,4,5-Trichlorophenol	0.040	U	0.020	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:15:00 AM
Project: Camp Hero
Lab ID: 1606293-008 **Matrix:** Soil
Client Sample ID: H3-SS01-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
2,4-Dichlorophenol	0.10	U	0.035	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
2,4-Dimethyl phenol	0.10	U	0.038	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
2,4-Dinitrophenol	0.20	UYQ	0.11	0.20	1.0	mg/Kg-dry	1	6/14/2016 8:26 PM
2,4-Dinitrotoluene	0.020	U	0.018	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
2,6-Dinitrotoluene	0.020	U	0.019	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
2-Chloronaphthalene	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
2-Chlorophenol	0.10	U	0.042	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
2-Methylphenol (o-Cresol)	0.10	U	0.043	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
2-Nitroaniline	0.020	U	0.0098	0.020	0.39	mg/Kg-dry	1	6/14/2016 8:26 PM
2-Nitrophenol	0.10	UY	0.050	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
3,3´-Dichlorobenzidine	0.80	U	0.51	0.80	1.2	mg/Kg-dry	1	6/14/2016 8:26 PM
3-Nitroaniline	0.020	U	0.014	0.020	0.39	mg/Kg-dry	1	6/14/2016 8:26 PM
3/4-Methylphenol [m/p-Cresol]	0.10	U	0.072	0.10	0.39	mg/Kg-dry	1	6/14/2016 8:26 PM
4,6-Dinitro-2-methylphenol	0.10	UY	0.058	0.10	0.39	mg/Kg-dry	1	6/14/2016 8:26 PM
4-Bromophenyl phenyl ether	0.10	U	0.051	0.10	0.24	mg/Kg-dry	1	6/14/2016 8:26 PM
4-Chloro-3-methylphenol	0.040	U	0.021	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
4-Chloroaniline [p-Chloroaniline]	0.10	U	0.030	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
4-Chlorophenyl phenyl ether	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
4-Nitroaniline	0.10	U	0.029	0.10	0.39	mg/Kg-dry	1	6/14/2016 8:26 PM
4-Nitrophenol	0.40	U	0.29	0.40	1.0	mg/Kg-dry	1	6/14/2016 8:26 PM
Benzoic acid	0.27	JQZ	0.16	0.40	1.2	mg/Kg-dry	1	6/14/2016 8:26 PM
Benzyl alcohol	0.020	U	0.0097	0.020	0.80	mg/Kg-dry	1	6/14/2016 8:26 PM
Bis(2-chloroethoxy) methane	0.020	U	0.0084	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Bis(2-chloroethyl) ether	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Bis(2-chloroisopropyl)ether	0.020	UZ	0.0092	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Bis(2-ethylhexyl) phthalate	0.040	U	0.036	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Butyl benzyl phthalate	0.040	U	0.024	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Carbazole	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Di-n-butyl phthalate	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Di-n-octyl phthalate	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Dibenzofuran	0.020	U	0.010	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Diethyl phthalate	0.020	U	0.015	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Dimethyl phthalate	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Hexachlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Hexachlorobutadiene	0.020	U	0.018	0.020	0.060	mg/Kg-dry	1	6/14/2016 8:26 PM
Hexachloroethane	0.020	U	0.0093	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Isophorone	0.020	U	0.0083	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
N-Nitrosodi-n-propylamine	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
N-Nitrosodimethylamine	0.020	U	0.0098	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
N-Nitrosodiphenylamine	0.020	U	0.0097	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Nitrobenzene	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Pentachlorophenol	0.10	UY	0.076	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Phenol	0.10	U	0.043	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:26 PM
Surr: 2,4,6-Tribromophenol	68.5			39-132		%Rec	1	6/14/2016 8:26 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606293-008	**Matrix:**	Soil
Client Sample ID:	H3-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	52.1			44-115		%Rec	1	6/14/2016 8:26 PM
Surr: 2-Fluorophenol	50.2			35-115		%Rec	1	6/14/2016 8:26 PM
Surr: Nitrobenzene-d5	50.9			37-122		%Rec	1	6/14/2016 8:26 PM
Surr: Phenol-d5	53.4			33-122		%Rec	1	6/14/2016 8:26 PM
Surr: Terphenyl-d14	65.1			54-127		%Rec	1	6/14/2016 8:26 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: MB**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
2-Methylnaphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Acenaphthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Acenaphthylene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Benzo(a)anthracene	0.0016		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Benzo(a)pyrene	0.0014		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Benzo(b)fluoranthene	0.0035		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Benzo(g,h,i)perylene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Benzo(k)fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Chrysene	0.0018		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Dibenzo(a,h)anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Fluoranthene	0.0037		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Fluorene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Indeno(1,2,3-cd)pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Naphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Phenanthrene	0.0018		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Pyrene	0.0027		0.00080	0.00080	0.00080	mg/Kg-dry	1	6/20/2016 10:36 PM
Surr: 2-Fluorobiphenyl	74.7			46-115		%Rec	1	6/20/2016 10:36 PM
Surr: Nitrobenzene-d5	78.7			44-125		%Rec	1	6/20/2016 10:36 PM
Surr: Terphenyl-d14	89.2			58-133		%Rec	1	6/20/2016 10:36 PM
TCL for Low Level Soil			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.00097	U	0.00047	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
1,1,1-Trichloroethane	0.00097	U	0.00034	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
1,1,2,2-Tetrachloroethane	0.00097	U	0.00086	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
1,1,2-Trichloroethane	0.00097	U	0.00063	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
1,1-Dichloroethane	0.00097	U	0.00024	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
1,1-Dichloroethene	0.00097	U	0.00033	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
1,2,3-Trichloropropane	0.00097	U	0.00057	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
1,2-Dibromo-3-chloropropane	0.0032	U	0.0023	0.0032	0.0081	mg/Kg-dry	1.34	6/14/2016 12:26 PM
1,2-Dibromoethane	0.00097	U	0.00073	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
1,2-Dichloroethane	0.00097	U	0.00022	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
1,2-Dichloropropane	0.00097	U	0.00045	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
2-Butanone [MEK]	0.016	U	0.0096	0.016	0.032	mg/Kg-dry	1.34	6/14/2016 12:26 PM
2-Hexanone	0.0032	U	0.0010	0.0032	0.0081	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Acetone	0.22	YQ	0.0015	0.0032	0.016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Benzene	0.00097	U	0.00044	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606293-008	**Matrix:**	Soil
Client Sample ID:	H3-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.00097	U	0.00033	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Bromoform	0.00097	UQ	0.00053	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Carbon disulfide	0.00097	U	0.00030	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Carbon tetrachloride	0.00097	U	0.00034	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Chlorobenzene	0.00097	U	0.00031	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Chlorodibromomethane	0.00097	U	0.00056	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Chloroethane	0.0016	U	0.0012	0.0016	0.0032	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Chloroform	0.00097	U	0.00077	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Chloromethane	0.00097	U	0.00056	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
cis-1,2-Dichloroethene	0.00097	U	0.00091	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
cis-1,3-Dichloropropene	0.00097	U	0.00026	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Dichlorodifluoromethane [Freon-12]	0.00097	U	0.00062	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Ethylbenzene	0.00097	U	0.00036	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Methylene chloride	0.0032	UB	0.0017	0.0032	0.0081	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Styrene	0.00097	U	0.00037	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Tetrachloroethene	0.00097	U	0.00052	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Toluene	0.00097	UQ	0.00043	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
trans-1,2-Dichloroethene	0.00097	U	0.00030	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
trans-1,3-Dichloropropene	0.00097	U	0.00037	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Trichloroethene	0.00097	U	0.00062	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Trichlorofluoromethane [Freon-11]	0.00097	UY	0.00036	0.00097	0.0016	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Vinyl acetate	0.00097	UY	0.00077	0.00097	0.0081	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Vinyl chloride	0.00097	U	0.00050	0.00097	0.0013	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Xylene (Total)	0.0029	U	0.00074	0.0029	0.0049	mg/Kg-dry	1.34	6/14/2016 12:26 PM
Surr: 4-Bromofluorobenzene	85.9			79-119		%Rec	1.34	6/14/2016 12:26 PM
Surr: Dibromofluoromethane	94.6			78-119		%Rec	1.34	6/14/2016 12:26 PM
Surr: Toluene-d8	93.8			85-116		%Rec	1.34	6/14/2016 12:26 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	17	1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:20:00 AM
Project: Camp Hero
Lab ID: 1606293-009 **Matrix:** Soil
Client Sample ID: H3-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0082	U	0.0037	0.0082	0.041	mg/Kg-dry	1	6/17/2016 12:51 AM
Aroclor 1221	0.0082	U	0.0037	0.0082	0.041	mg/Kg-dry	1	6/17/2016 12:51 AM
Aroclor 1232	0.0082	U	0.0055	0.0082	0.041	mg/Kg-dry	1	6/17/2016 12:51 AM
Aroclor 1242	0.0082	U	0.0046	0.0082	0.041	mg/Kg-dry	1	6/17/2016 12:51 AM
Aroclor 1248	0.0082	U	0.0043	0.0082	0.041	mg/Kg-dry	1	6/17/2016 12:51 AM
Aroclor 1254	0.0082	U	0.0052	0.0082	0.041	mg/Kg-dry	1	6/17/2016 12:51 AM
Aroclor 1260	0.0082	U	0.0036	0.0082	0.041	mg/Kg-dry	1	6/17/2016 12:51 AM
Aroclor 1262	0.0082	U	0.0036	0.0082	0.041	mg/Kg-dry	1	6/17/2016 12:51 AM
Aroclor 1268	0.0082	U	0.0030	0.0082	0.041	mg/Kg-dry	1	6/17/2016 12:51 AM
Surr: Tetrachloro-m-xylene	66.3			44-130		%Rec	1	6/17/2016 12:51 AM
Surr: Decachlorobiphenyl	72.1			60-125		%Rec	1	6/17/2016 12:51 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,400		58	150	390	mg/Kg-dry	100	6/16/2016 3:21 PM
Antimony	2.3		0.29	0.39	0.77	mg/Kg-dry	1	6/16/2016 1:48 PM
Arsenic	1.7		0.56	0.77	1.5	mg/Kg-dry	1	6/16/2016 1:48 PM
Barium	14		0.23	3.9	7.7	mg/Kg-dry	1	6/16/2016 1:48 PM
Beryllium	1.4		0.0098	0.039	0.19	mg/Kg-dry	1	6/16/2016 1:48 PM
Cadmium	1.1		0.025	0.039	0.19	mg/Kg-dry	1	6/16/2016 1:48 PM
Calcium	530		2.3	7.7	39	mg/Kg-dry	1	6/16/2016 1:48 PM
Chromium	10	G	0.064	0.31	0.39	mg/Kg-dry	1	6/22/2016 2:47 PM
Cobalt	2.4		0.069	0.19	0.77	mg/Kg-dry	1	6/16/2016 1:48 PM
Copper	24		0.32	0.77	3.9	mg/Kg-dry	1	6/16/2016 1:48 PM
Iron	12,000		24	39	120	mg/Kg-dry	10	6/16/2016 2:32 PM
Lead	10		0.48	0.77	3.9	mg/Kg-dry	1	6/16/2016 1:48 PM
Magnesium	500		2.7	3.9	39	mg/Kg-dry	1	6/16/2016 1:48 PM
Manganese	78		0.14	0.19	0.77	mg/Kg-dry	1	6/22/2016 2:47 PM
Nickel	6.2		0.22	0.77	3.9	mg/Kg-dry	1	6/16/2016 1:48 PM
Potassium	230		1.8	7.7	15	mg/Kg-dry	1	6/16/2016 1:48 PM
Selenium	1.2	U	0.90	1.2	1.5	mg/Kg-dry	1	6/16/2016 1:48 PM
Silver	0.53	J	0.063	0.19	0.77	mg/Kg-dry	1	6/16/2016 1:48 PM
Sodium	69		1.6	3.9	39	mg/Kg-dry	1	6/16/2016 1:48 PM
Vanadium	22		0.098	0.77	1.9	mg/Kg-dry	1	6/16/2016 1:48 PM
Zinc	57		0.30	0.39	3.9	mg/Kg-dry	1	6/16/2016 1:48 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.074	JG	0.040	0.041	0.16	mg/Kg-dry	10	7/6/2016 3:33 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
1,2-Dichlorobenzene	0.020	U	0.0087	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
1,3-Dichlorobenzene	0.020	U	0.0084	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
1,4-Dichlorobenzene	0.020	U	0.0065	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
2,4,5-Trichlorophenol	0.040	U	0.020	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:20:00 AM
Project: Camp Hero
Lab ID: 1606293-009 **Matrix:** Soil
Client Sample ID: H3-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.040	U	0.023	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
2,4-Dichlorophenol	0.10	U	0.035	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
2,4-Dimethyl phenol	0.10	U	0.039	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
2,4-Dinitrophenol	0.20	UYQ	0.12	0.20	1.0	mg/Kg-dry	1	6/14/2016 8:50 PM
2,4-Dinitrotoluene	0.020	U	0.018	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
2,6-Dinitrotoluene	0.020	U	0.019	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
2-Chloronaphthalene	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
2-Chlorophenol	0.10	U	0.042	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
2-Methylphenol (o-Cresol)	0.10	U	0.044	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
2-Nitroaniline	0.020	U	0.0098	0.020	0.39	mg/Kg-dry	1	6/14/2016 8:50 PM
2-Nitrophenol	0.10	UY	0.050	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
3,3´-Dichlorobenzidine	0.81	U	0.52	0.81	1.2	mg/Kg-dry	1	6/14/2016 8:50 PM
3-Nitroaniline	0.020	U	0.014	0.020	0.39	mg/Kg-dry	1	6/14/2016 8:50 PM
3/4-Methylphenol [m/p-Cresol]	0.10	U	0.072	0.10	0.39	mg/Kg-dry	1	6/14/2016 8:50 PM
4,6-Dinitro-2-methylphenol	0.10	UY	0.058	0.10	0.39	mg/Kg-dry	1	6/14/2016 8:50 PM
4-Bromophenyl phenyl ether	0.10	U	0.052	0.10	0.24	mg/Kg-dry	1	6/14/2016 8:50 PM
4-Chloro-3-methylphenol	0.040	U	0.021	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
4-Chloroaniline [p-Chloroaniline]	0.10	U	0.030	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
4-Chlorophenyl phenyl ether	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
4-Nitroaniline	0.10	U	0.029	0.10	0.39	mg/Kg-dry	1	6/14/2016 8:50 PM
4-Nitrophenol	0.40	U	0.29	0.40	1.0	mg/Kg-dry	1	6/14/2016 8:50 PM
Benzoic acid	0.38	JQZ	0.16	0.40	1.2	mg/Kg-dry	1	6/14/2016 8:50 PM
Benzyl alcohol	0.020	U	0.0097	0.020	0.80	mg/Kg-dry	1	6/14/2016 8:50 PM
Bis(2-chloroethoxy) methane	0.020	U	0.0084	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Bis(2-chloroethyl) ether	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Bis(2-chloroisopropyl)ether	0.020	UZ	0.0092	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Bis(2-ethylhexyl) phthalate	0.040	U	0.036	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Butyl benzyl phthalate	0.040	U	0.024	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Carbazole	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Di-n-butyl phthalate	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Di-n-octyl phthalate	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Dibenzofuran	0.020	U	0.010	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Diethyl phthalate	0.020	U	0.015	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Dimethyl phthalate	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Hexachlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Hexachlorobutadiene	0.020	U	0.018	0.020	0.061	mg/Kg-dry	1	6/14/2016 8:50 PM
Hexachloroethane	0.020	U	0.0093	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Isophorone	0.020	U	0.0084	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
N-Nitrosodi-n-propylamine	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
N-Nitrosodimethylamine	0.020	U	0.0098	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
N-Nitrosodiphenylamine	0.020	U	0.0098	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Nitrobenzene	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Pentachlorophenol	0.10	UY	0.076	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Phenol	0.10	U	0.043	0.10	0.19	mg/Kg-dry	1	6/14/2016 8:50 PM
Surr: 2,4,6-Tribromophenol	75.2			39-132		%Rec	1	6/14/2016 8:50 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:20:00 AM
Project: Camp Hero
Lab ID: 1606293-009 **Matrix:** Soil
Client Sample ID: H3-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	57.4			44-115		%Rec	1	6/14/2016 8:50 PM
Surr: 2-Fluorophenol	51.2			35-115		%Rec	1	6/14/2016 8:50 PM
Surr: Nitrobenzene-d5	52.4			37-122		%Rec	1	6/14/2016 8:50 PM
Surr: Phenol-d5	54.5			33-122		%Rec	1	6/14/2016 8:50 PM
Surr: Terphenyl-d14	70.5			54-127		%Rec	1	6/14/2016 8:50 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: MB**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
2-Methylnaphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Acenaphthene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Acenaphthylene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Anthracene	0.00097		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Benzo(a)anthracene	0.0051		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Benzo(a)pyrene	0.0056		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Benzo(b)fluoranthene	0.011		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Benzo(g,h,i)perylene	0.0020		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Benzo(k)fluoranthene	0.0025		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Chrysene	0.0051		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Dibenzo(a,h)anthracene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Fluoranthene	0.011		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Fluorene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Indeno(1,2,3-cd)pyrene	0.0024		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Naphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Phenanthrene	0.0050		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Pyrene	0.0088		0.00081	0.00081	0.00081	mg/Kg-dry	1	6/20/2016 11:05 PM
Surr: 2-Fluorobiphenyl	69.3			46-115		%Rec	1	6/20/2016 11:05 PM
Surr: Nitrobenzene-d5	75.4			44-125		%Rec	1	6/20/2016 11:05 PM
Surr: Terphenyl-d14	87.5			58-133		%Rec	1	6/20/2016 11:05 PM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.079	UQ	0.038	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
1,1,1-Trichloroethane	0.079	U	0.033	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
1,1,2,2-Tetrachloroethane	0.079	U	0.070	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
1,1,2-Trichloroethane	0.079	U	0.029	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
1,1-Dichloroethane	0.079	U	0.028	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
1,1-Dichloroethene	0.079	U	0.037	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
1,2,3-Trichloropropane	0.079	U	0.076	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
1,2-Dibromo-3-chloropropane	0.26	U	0.16	0.26	0.66	mg/Kg-dry	107.2	6/17/2016 9:11 PM
1,2-Dibromoethane	0.079	U	0.047	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
1,2-Dichloroethane	0.079	U	0.035	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
1,2-Dichloropropane	0.079	U	0.044	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
2-Butanone [MEK]	0.66	U	0.44	0.66	1.3	mg/Kg-dry	107.2	6/17/2016 9:11 PM
2-Hexanone	0.13	U	0.083	0.13	0.26	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Acetone	0.26	U	0.11	0.26	0.66	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Benzene	0.079	U	0.027	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 9:20:00 AM
Project:	Camp Hero		
Lab ID:	1606293-009	**Matrix:**	Soil
Client Sample ID:	H3-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.079	UQ	0.034	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Bromoform	0.079	UYQ	0.044	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Carbon disulfide	0.079	U	0.048	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Carbon tetrachloride	0.079	U	0.036	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Chlorobenzene	0.079	U	0.035	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Chlorodibromomethane	0.079	UQ	0.066	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Chloroethane	0.26	UYZ	0.19	0.26	0.66	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Chloroform	0.079	U	0.036	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Chloromethane	0.079	U	0.053	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
cis-1,2-Dichloroethene	0.079	U	0.076	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
cis-1,3-Dichloropropene	0.079	UQ	0.021	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Dichlorodifluoromethane [Freon-12]	0.26	U	0.12	0.26	0.66	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Ethylbenzene	0.079	U	0.030	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Methylene chloride	0.13	J	0.10	0.13	0.26	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Styrene	0.079	UQ	0.030	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Tetrachloroethene	0.079	U	0.068	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Toluene	0.079	U	0.035	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
trans-1,2-Dichloroethene	0.079	U	0.027	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
trans-1,3-Dichloropropene	0.079	UQ	0.036	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Trichloroethene	0.079	U	0.019	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Trichlorofluoromethane [Freon-11]	0.079	U	0.074	0.079	0.13	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Vinyl acetate	0.079	U	0.077	0.079	3.3	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Vinyl chloride	0.079	U	0.072	0.079	0.11	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Xylene (Total)	0.24	U	0.12	0.24	0.40	mg/Kg-dry	107.2	6/17/2016 9:11 PM
Surr: 4-Bromofluorobenzene	91.2			79-119		%Rec	107.2	6/17/2016 9:11 PM
Surr: Dibromofluoromethane	89.3			78-119		%Rec	107.2	6/17/2016 9:11 PM
Surr: Toluene-d8	89.5			85-116		%Rec	107.2	6/17/2016 9:11 PM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:25:00 AM
Project: Camp Hero
Lab ID: 1606293-010 **Matrix:** Soil
Client Sample ID: H3-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0083	U	0.0037	0.0083	0.041	mg/Kg-dry	1	6/17/2016 1:16 AM
Aroclor 1221	0.0083	U	0.0037	0.0083	0.041	mg/Kg-dry	1	6/17/2016 1:16 AM
Aroclor 1232	0.0083	U	0.0056	0.0083	0.041	mg/Kg-dry	1	6/17/2016 1:16 AM
Aroclor 1242	0.0083	U	0.0046	0.0083	0.041	mg/Kg-dry	1	6/17/2016 1:16 AM
Aroclor 1248	0.0083	U	0.0044	0.0083	0.041	mg/Kg-dry	1	6/17/2016 1:16 AM
Aroclor 1254	0.0083	U	0.0052	0.0083	0.041	mg/Kg-dry	1	6/17/2016 1:16 AM
Aroclor 1260	0.0083	U	0.0036	0.0083	0.041	mg/Kg-dry	1	6/17/2016 1:16 AM
Aroclor 1262	0.0083	U	0.0036	0.0083	0.041	mg/Kg-dry	1	6/17/2016 1:16 AM
Aroclor 1268	0.0083	U	0.0030	0.0083	0.041	mg/Kg-dry	1	6/17/2016 1:16 AM
Surr: Tetrachloro-m-xylene	90.4			44-130		%Rec	1	6/17/2016 1:16 AM
Surr: Decachlorobiphenyl	97.8			60-125		%Rec	1	6/17/2016 1:16 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		60	160	400	mg/Kg-dry	100	7/13/2016 2:34 PM
Antimony	2.5		0.30	0.40	0.80	mg/Kg-dry	1	7/13/2016 12:52 PM
Arsenic	1.6	J	0.58	0.80	1.6	mg/Kg-dry	1	7/13/2016 12:52 PM
Barium	25		0.24	4.0	8.0	mg/Kg-dry	1	7/13/2016 12:52 PM
Beryllium	0.078	J	0.010	0.040	0.20	mg/Kg-dry	1	7/13/2016 12:52 PM
Cadmium	0.040	U	0.026	0.040	0.20	mg/Kg-dry	1	7/13/2016 12:52 PM
Calcium	490		2.4	8.0	40	mg/Kg-dry	1	7/13/2016 12:52 PM
Chromium	15		0.066	0.32	0.40	mg/Kg-dry	1	7/13/2016 12:52 PM
Cobalt	2.5		0.072	0.20	0.80	mg/Kg-dry	1	7/13/2016 12:52 PM
Copper	30		0.33	0.80	4.0	mg/Kg-dry	1	7/13/2016 12:52 PM
Iron	14,000		25	40	120	mg/Kg-dry	10	7/13/2016 1:33 PM
Lead	4.8		0.50	0.80	4.0	mg/Kg-dry	1	7/13/2016 12:52 PM
Magnesium	1,000		2.8	4.0	40	mg/Kg-dry	1	7/13/2016 12:52 PM
Manganese	99		0.15	0.20	0.80	mg/Kg-dry	1	7/13/2016 12:52 PM
Nickel	6.1		0.23	0.80	4.0	mg/Kg-dry	1	7/13/2016 12:52 PM
Potassium	360		1.9	8.0	16	mg/Kg-dry	1	7/13/2016 12:52 PM
Selenium	1.2	U	0.93	1.2	1.6	mg/Kg-dry	1	7/13/2016 12:52 PM
Silver	0.20	U	0.066	0.20	0.80	mg/Kg-dry	1	7/13/2016 12:52 PM
Sodium	58		1.6	4.0	40	mg/Kg-dry	1	7/13/2016 12:52 PM
Vanadium	23		0.10	0.80	2.0	mg/Kg-dry	1	7/13/2016 12:52 PM
Zinc	32		0.31	0.40	4.0	mg/Kg-dry	1	7/13/2016 12:52 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.094	JG	0.039	0.041	0.16	mg/Kg-dry	10	7/6/2016 5:56 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.021	U	0.012	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
1,2-Dichlorobenzene	0.021	U	0.0090	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
1,3-Dichlorobenzene	0.021	U	0.0086	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
1,4-Dichlorobenzene	0.021	U	0.0066	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
2,4,5-Trichlorophenol	0.041	U	0.020	0.041	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:25:00 AM
Project: Camp Hero
Lab ID: 1606293-010 **Matrix:** Soil
Client Sample ID: H3-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.041	U	0.023	0.041	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
2,4-Dichlorophenol	0.10	U	0.036	0.10	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
2,4-Dimethyl phenol	0.10	U	0.040	0.10	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
2,4-Dinitrophenol	0.21	UYQ	0.12	0.21	1.0	mg/Kg-dry	1	6/14/2016 9:15 PM
2,4-Dinitrotoluene	0.021	U	0.018	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
2,6-Dinitrotoluene	0.021	U	0.020	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
2-Chloronaphthalene	0.021	U	0.014	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
2-Chlorophenol	0.10	U	0.043	0.10	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
2-Methylphenol (o-Cresol)	0.10	U	0.045	0.10	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
2-Nitroaniline	0.021	U	0.010	0.021	0.40	mg/Kg-dry	1	6/14/2016 9:15 PM
2-Nitrophenol	0.10	UY	0.051	0.10	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
3,3´-Dichlorobenzidine	0.83	U	0.53	0.83	1.2	mg/Kg-dry	1	6/14/2016 9:15 PM
3-Nitroaniline	0.021	U	0.014	0.021	0.40	mg/Kg-dry	1	6/14/2016 9:15 PM
3/4-Methylphenol [m/p-Cresol]	0.10	U	0.074	0.10	0.40	mg/Kg-dry	1	6/14/2016 9:15 PM
4,6-Dinitro-2-methylphenol	0.10	UY	0.060	0.10	0.40	mg/Kg-dry	1	6/14/2016 9:15 PM
4-Bromophenyl phenyl ether	0.10	U	0.053	0.10	0.25	mg/Kg-dry	1	6/14/2016 9:15 PM
4-Chloro-3-methylphenol	0.041	U	0.022	0.041	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
4-Chloroaniline [p-Chloroaniline]	0.10	U	0.031	0.10	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
4-Chlorophenyl phenyl ether	0.021	U	0.013	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
4-Nitroaniline	0.10	U	0.030	0.10	0.40	mg/Kg-dry	1	6/14/2016 9:15 PM
4-Nitrophenol	0.41	U	0.30	0.41	1.0	mg/Kg-dry	1	6/14/2016 9:15 PM
Benzoic acid	0.31	JQZ	0.17	0.41	1.2	mg/Kg-dry	1	6/14/2016 9:15 PM
Benzyl alcohol	0.021	U	0.010	0.021	0.82	mg/Kg-dry	1	6/14/2016 9:15 PM
Bis(2-chloroethoxy) methane	0.034	J	0.0086	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Bis(2-chloroethyl) ether	0.041	U	0.022	0.041	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Bis(2-chloroisopropyl)ether	0.021	UZ	0.0095	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Bis(2-ethylhexyl) phthalate	0.041	U	0.037	0.041	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Butyl benzyl phthalate	0.041	U	0.024	0.041	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Carbazole	0.021	U	0.014	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Di-n-butyl phthalate	0.041	U	0.022	0.041	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Di-n-octyl phthalate	0.021	U	0.014	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Dibenzofuran	0.021	U	0.011	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Diethyl phthalate	0.021	U	0.015	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Dimethyl phthalate	0.021	U	0.014	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Hexachlorobenzene	0.021	U	0.011	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Hexachlorobutadiene	0.021	U	0.019	0.021	0.062	mg/Kg-dry	1	6/14/2016 9:15 PM
Hexachloroethane	0.021	U	0.0095	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Isophorone	0.021	U	0.0086	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
N-Nitroso-di-n-propylamine	0.021	U	0.012	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
N-Nitrosodimethylamine	0.021	U	0.010	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
N-Nitrosodiphenylamine	0.021	U	0.010	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Nitrobenzene	0.021	U	0.013	0.021	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Pentachlorophenol	0.10	UY	0.078	0.10	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Phenol	0.10	U	0.044	0.10	0.20	mg/Kg-dry	1	6/14/2016 9:15 PM
Surr: 2,4,6-Tribromophenol	71.0			39-132		%Rec	1	6/14/2016 9:15 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:25:00 AM
Project: Camp Hero
Lab ID: 1606293-010 **Matrix:** Soil
Client Sample ID: H3-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	56.8			44-115		%Rec	1	6/14/2016 9:15 PM
Surr: 2-Fluorophenol	52.2			35-115		%Rec	1	6/14/2016 9:15 PM
Surr: Nitrobenzene-d5	52.4			37-122		%Rec	1	6/14/2016 9:15 PM
Surr: Phenol-d5	55.2			33-122		%Rec	1	6/14/2016 9:15 PM
Surr: Terphenyl-d14	67.8			54-127		%Rec	1	6/14/2016 9:15 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
2-Methylnaphthalene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Acenaphthene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Acenaphthylene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Anthracene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Benzo(a)anthracene	0.0039		0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Benzo(a)pyrene	0.0035		0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Benzo(b)fluoranthene	0.0064		0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Benzo(g,h,i)perylene	0.0024		0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Benzo(k)fluoranthene	0.0023		0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Chrysene	0.0032		0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Dibenzo(a,h)anthracene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Fluoranthene	0.0074		0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Fluorene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Indeno(1,2,3-cd)pyrene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Naphthalene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Phenanthrene	0.0044		0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Pyrene	0.0071		0.00084	0.00084	0.00084	mg/Kg-dry	1	6/28/2016 9:51 AM
Surr: 2-Fluorobiphenyl	82.7			46-115		%Rec	1	6/28/2016 9:51 AM
Surr: Nitrobenzene-d5	94.7			44-125		%Rec	1	6/28/2016 9:51 AM
Surr: Terphenyl-d14	101			58-133		%Rec	1	6/28/2016 9:51 AM
TCL for Low Level Soil			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.00075	U	0.00036	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
1,1,1-Trichloroethane	0.00075	U	0.00026	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
1,1,2,2-Tetrachloroethane	0.00075	U	0.00067	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
1,1,2-Trichloroethane	0.00075	U	0.00049	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
1,1-Dichloroethane	0.00075	U	0.00019	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
1,1-Dichloroethene	0.00075	U	0.00026	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
1,2,3-Trichloropropane	0.00075	U	0.00044	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
1,2-Dibromo-3-chloropropane	0.0025	U	0.0018	0.0025	0.0063	mg/Kg-dry	1	6/14/2016 1:19 PM
1,2-Dibromoethane	0.00075	U	0.00056	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
1,2-Dichloroethane	0.00075	U	0.00017	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
1,2-Dichloropropane	0.00075	U	0.00035	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
2-Butanone [MEK]	0.013	U	0.0074	0.013	0.025	mg/Kg-dry	1	6/14/2016 1:19 PM
2-Hexanone	0.0025	U	0.00079	0.0025	0.0063	mg/Kg-dry	1	6/14/2016 1:19 PM
Acetone	0.13	YQ	0.0011	0.0025	0.013	mg/Kg-dry	1	6/14/2016 1:19 PM
Benzene	0.00075	U	0.00034	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 9:25:00 AM
Project:	Camp Hero		
Lab ID:	1606293-010	**Matrix:**	Soil
Client Sample ID:	H3-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.00075	U	0.00025	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Bromoform	0.00075	UQ	0.00041	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Carbon disulfide	0.00075	U	0.00023	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Carbon tetrachloride	0.00075	U	0.00027	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Chlorobenzene	0.00075	U	0.00024	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Chlorodibromomethane	0.00075	U	0.00043	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Chloroethane	0.0013	U	0.00095	0.0013	0.0025	mg/Kg-dry	1	6/14/2016 1:19 PM
Chloroform	0.00075	U	0.00060	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Chloromethane	0.00075	U	0.00043	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
cis-1,2-Dichloroethene	0.00075	U	0.00070	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
cis-1,3-Dichloropropene	0.00075	U	0.00020	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Dichlorodifluoromethane [Freon-12]	0.00075	U	0.00048	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Ethylbenzene	0.00075	U	0.00028	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Methylene chloride	0.0025	UB	0.0013	0.0025	0.0063	mg/Kg-dry	1	6/14/2016 1:19 PM
Styrene	0.00075	U	0.00029	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Tetrachloroethene	0.00075	U	0.00040	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Toluene	0.00075	UQ	0.00034	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
trans-1,2-Dichloroethene	0.00075	U	0.00023	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
trans-1,3-Dichloropropene	0.00075	U	0.00029	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Trichloroethene	0.00075	U	0.00048	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Trichlorofluoromethane [Freon-11]	0.00075	UY	0.00028	0.00075	0.0013	mg/Kg-dry	1	6/14/2016 1:19 PM
Vinyl acetate	0.00075	UY	0.00059	0.00075	0.0063	mg/Kg-dry	1	6/14/2016 1:19 PM
Vinyl chloride	0.00075	U	0.00039	0.00075	0.0010	mg/Kg-dry	1	6/14/2016 1:19 PM
Xylene (Total)	0.0023	U	0.00057	0.0023	0.0038	mg/Kg-dry	1	6/14/2016 1:19 PM
Surr: 4-Bromofluorobenzene	82.7			79-119		%Rec	1	6/14/2016 1:19 PM
Surr: Dibromofluoromethane	92.5			78-119		%Rec	1	6/14/2016 1:19 PM
Surr: Toluene-d8	92.1			85-116		%Rec	1	6/14/2016 1:19 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	20		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 9:00:00 AM
Project: Camp Hero
Lab ID: 1606293-011 **Matrix:** Soil
Client Sample ID: TB-SO-060716-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00060	U	0.00029	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
1,1,1-Trichloroethane	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
1,1,2,2-Tetrachloroethane	0.00060	U	0.00053	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
1,1,2-Trichloroethane	0.00060	U	0.00039	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
1,1-Dichloroethane	0.00060	U	0.00015	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
1,1-Dichloroethene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
1,2,3-Trichloropropane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
1,2-Dibromo-3-chloropropane	0.0020	U	0.0014	0.0020	0.0050	mg/Kg	1	6/14/2016 10:14 AM
1,2-Dibromoethane	0.00060	U	0.00045	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
1,2-Dichloroethane	0.00060	U	0.00014	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
1,2-Dichloropropane	0.00060	U	0.00028	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
2-Butanone [MEK]	0.010	U	0.0059	0.010	0.020	mg/Kg	1	6/14/2016 10:14 AM
2-Hexanone	0.0020	U	0.00063	0.0020	0.0050	mg/Kg	1	6/14/2016 10:14 AM
Acetone	0.011	YQ	0.00091	0.0020	0.010	mg/Kg	1	6/14/2016 10:14 AM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Bromodichloromethane	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Bromoform	0.00060	UQ	0.00033	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Carbon disulfide	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Carbon tetrachloride	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Chlorobenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Chlorodibromomethane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Chloroethane	0.0010	U	0.00076	0.0010	0.0020	mg/Kg	1	6/14/2016 10:14 AM
Chloroform	0.00060	U	0.00048	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Chloromethane	0.00060	U	0.00034	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
cis-1,2-Dichloroethene	0.00060	U	0.00056	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
cis-1,3-Dichloropropene	0.00060	U	0.00016	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Dichlorodifluoromethane [Freon-12]	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Methylene chloride	0.0062	B	0.0011	0.0020	0.0050	mg/Kg	1	6/14/2016 10:14 AM
Styrene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Tetrachloroethene	0.00060	U	0.00032	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Toluene	0.00060	UQ	0.00027	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
trans-1,2-Dichloroethene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
trans-1,3-Dichloropropene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Trichloroethene	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Trichlorofluoromethane [Freon-11]	0.00060	UY	0.00022	0.00060	0.0010	mg/Kg	1	6/14/2016 10:14 AM
Vinyl acetate	0.00060	UY	0.00047	0.00060	0.0050	mg/Kg	1	6/14/2016 10:14 AM
Vinyl chloride	0.00060	U	0.00031	0.00060	0.00080	mg/Kg	1	6/14/2016 10:14 AM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg	1	6/14/2016 10:14 AM
Surr: 4-Bromofluorobenzene	88.1			79-119		%Rec	1	6/14/2016 10:14 AM
Surr: Dibromofluoromethane	95.2			78-119		%Rec	1	6/14/2016 10:14 AM
Surr: Toluene-d8	89.4			85-116		%Rec	1	6/14/2016 10:14 AM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 1:00:00 PM
Project:	Camp Hero		
Lab ID:	1606293-012	**Matrix:**	Soil
Client Sample ID:	H12-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:29 AM
Aroclor 1221	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:29 AM
Aroclor 1232	0.0075	U	0.0050	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:29 AM
Aroclor 1242	0.0075	U	0.0042	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:29 AM
Aroclor 1248	0.0075	U	0.0039	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:29 AM
Aroclor 1254	0.0075	U	0.0047	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:29 AM
Aroclor 1260	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:29 AM
Aroclor 1262	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:29 AM
Aroclor 1268	0.0075	U	0.0027	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:29 AM
Surr: Tetrachloro-m-xylene	80.8			44-130		%Rec	1	6/17/2016 2:29 AM
Surr: Decachlorobiphenyl	89.2			60-125		%Rec	1	6/17/2016 2:29 AM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	6,700		56	150	370	mg/Kg-dry	100	7/13/2016 2:35 PM
Antimony	2.0		0.28	0.37	0.74	mg/Kg-dry	1	7/13/2016 12:54 PM
Arsenic	1.7		0.54	0.74	1.5	mg/Kg-dry	1	7/13/2016 12:54 PM
Barium	23		0.22	3.7	7.4	mg/Kg-dry	1	7/13/2016 12:54 PM
Beryllium	0.11	J	0.0094	0.037	0.19	mg/Kg-dry	1	7/13/2016 12:54 PM
Cadmium	0.051	J	0.024	0.037	0.19	mg/Kg-dry	1	7/13/2016 12:54 PM
Calcium	790		2.2	7.4	37	mg/Kg-dry	1	7/13/2016 12:54 PM
Chromium	9.7		0.061	0.30	0.37	mg/Kg-dry	1	7/13/2016 12:54 PM
Cobalt	2.1		0.067	0.19	0.74	mg/Kg-dry	1	7/13/2016 12:54 PM
Copper	22		0.31	0.74	3.7	mg/Kg-dry	1	7/13/2016 12:54 PM
Iron	8,100		23	37	110	mg/Kg-dry	10	7/13/2016 1:34 PM
Lead	18		0.46	0.74	3.7	mg/Kg-dry	1	7/13/2016 12:54 PM
Magnesium	1,100		2.6	3.7	37	mg/Kg-dry	1	7/13/2016 12:54 PM
Manganese	100		0.14	0.19	0.74	mg/Kg-dry	1	7/13/2016 12:54 PM
Nickel	4.9		0.21	0.74	3.7	mg/Kg-dry	1	7/13/2016 12:54 PM
Potassium	610		1.7	7.4	15	mg/Kg-dry	1	7/13/2016 12:54 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/13/2016 12:54 PM
Silver	0.19	U	0.061	0.19	0.74	mg/Kg-dry	1	7/13/2016 12:54 PM
Sodium	59		1.5	3.7	37	mg/Kg-dry	1	7/13/2016 12:54 PM
Vanadium	12		0.094	0.74	1.9	mg/Kg-dry	1	7/13/2016 12:54 PM
Zinc	17		0.29	0.37	3.7	mg/Kg-dry	1	7/13/2016 12:54 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.075	JG	0.036	0.037	0.15	mg/Kg-dry	10	7/6/2016 5:57 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0059		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
2-Methylnaphthalene	0.0075		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Acenaphthene	0.0023		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Acenaphthylene	0.0016		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 1:00:00 PM
Project: Camp Hero
Lab ID: 1606293-012 **Matrix:** Soil
Client Sample ID: H12-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.0076		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Benzo(a)anthracene	0.055		0.0074	0.0074	0.0074	mg/Kg-dry	10	7/20/2016 9:18 PM
Benzo(a)pyrene	0.030		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Benzo(b)fluoranthene	0.058	Y	0.0074	0.0074	0.0074	mg/Kg-dry	10	7/20/2016 9:18 PM
Benzo(g,h,i)perylene	0.017		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Benzo(k)fluoranthene	0.016		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Chrysene	0.032		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Dibenzo(a,h)anthracene	0.0014		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Fluoranthene	0.071		0.0074	0.0074	0.0074	mg/Kg-dry	10	7/20/2016 9:18 PM
Fluorene	0.0022		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Indeno(1,2,3-cd)pyrene	0.017		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Naphthalene	0.0054		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 10:20 AM
Phenanthrene	0.040		0.0074	0.0074	0.0074	mg/Kg-dry	10	7/20/2016 9:18 PM
Pyrene	0.070		0.0074	0.0074	0.0074	mg/Kg-dry	10	7/20/2016 9:18 PM
Surr: 2-Fluorobiphenyl	83.3			46-115		%Rec	1	6/28/2016 10:20 AM
Surr: Nitrobenzene-d5	93.2			44-125		%Rec	1	6/28/2016 10:20 AM
Surr: Terphenyl-d14	109			58-133		%Rec	1	6/28/2016 10:20 AM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00055	U	0.00026	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
1,1,1-Trichloroethane	0.00055	U	0.00019	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
1,1,2,2-Tetrachloroethane	0.00055	U	0.00048	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
1,1,2-Trichloroethane	0.00055	U	0.00036	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
1,1-Dichloroethane	0.00055	U	0.00014	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
1,1-Dichloroethene	0.00055	U	0.00019	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
1,2,3-Trichloropropane	0.00055	U	0.00032	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
1,2-Dibromo-3-chloropropane	0.0018	U	0.0013	0.0018	0.0046	mg/Kg-dry	0.81	6/14/2016 1:46 PM
1,2-Dibromoethane	0.00055	U	0.00041	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
1,2-Dichloroethane	0.00055	U	0.00012	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
1,2-Dichloropropane	0.00055	U	0.00025	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
2-Butanone [MEK]	0.0078	J	0.0054	0.0091	0.018	mg/Kg-dry	0.81	6/14/2016 1:46 PM
2-Hexanone	0.0018	U	0.00057	0.0018	0.0046	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Acetone	0.074	YQ	0.00083	0.0018	0.0091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Benzene	0.00055	U	0.00025	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Bromodichloromethane	0.00055	U	0.00018	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Bromoform	0.00055	UQ	0.00030	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Carbon disulfide	0.00055	U	0.00017	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Carbon tetrachloride	0.00055	U	0.00019	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Chlorobenzene	0.00055	U	0.00017	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Chlorodibromomethane	0.00055	U	0.00032	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Chloroethane	0.00091	U	0.00069	0.00091	0.0018	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Chloroform	0.00055	U	0.00043	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Chloromethane	0.00055	U	0.00031	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
cis-1,2-Dichloroethene	0.00055	U	0.00051	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
cis-1,3-Dichloropropene	0.00055	U	0.00015	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Dichlorodifluoromethane [Freon-12]	0.00055	U	0.00035	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 1:00:00 PM
Project:	Camp Hero		
Lab ID:	1606293-012	**Matrix:**	Soil
Client Sample ID:	H12-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Ethylbenzene	0.00055	U	0.00020	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Methylene chloride	0.0018	UB	0.00097	0.0018	0.0046	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Styrene	0.00055	U	0.00021	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Tetrachloroethene	0.00055	U	0.00029	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Toluene	0.00055	UQ	0.00024	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
trans-1,2-Dichloroethene	0.00055	U	0.00017	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
trans-1,3-Dichloropropene	0.00055	U	0.00021	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Trichloroethene	0.00055	U	0.00035	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Trichlorofluoromethane [Freon-11]	0.00055	UY	0.00020	0.00055	0.00091	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Vinyl acetate	0.00055	UY	0.00043	0.00055	0.0046	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Vinyl chloride	0.00055	U	0.00028	0.00055	0.00073	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Xylene (Total)	0.0016	U	0.00041	0.0016	0.0027	mg/Kg-dry	0.81	6/14/2016 1:46 PM
Surr: 4-Bromofluorobenzene	82.5			79-119		%Rec	0.81	6/14/2016 1:46 PM
Surr: Dibromofluoromethane	92.6			78-119		%Rec	0.81	6/14/2016 1:46 PM
Surr: Toluene-d8	87.1			85-116		%Rec	0.81	6/14/2016 1:46 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606293-013	**Matrix:**	Soil
Client Sample ID:	H12-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:54 AM
Aroclor 1221	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:54 AM
Aroclor 1232	0.0075	U	0.0050	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:54 AM
Aroclor 1242	0.0075	U	0.0042	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:54 AM
Aroclor 1248	0.0075	U	0.0039	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:54 AM
Aroclor 1254	0.0075	U	0.0047	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:54 AM
Aroclor 1260	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:54 AM
Aroclor 1262	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:54 AM
Aroclor 1268	0.0075	U	0.0027	0.0075	0.037	mg/Kg-dry	1	6/17/2016 2:54 AM
Surr: Tetrachloro-m-xylene	82.1			44-130		%Rec	1	6/17/2016 2:54 AM
Surr: Decachlorobiphenyl	96.5			60-125		%Rec	1	6/17/2016 2:54 AM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	3,200		55	150	370	mg/Kg-dry	100	7/13/2016 2:37 PM
Antimony	1.7		0.28	0.37	0.74	mg/Kg-dry	1	7/13/2016 12:55 PM
Arsenic	1.8		0.54	0.74	1.5	mg/Kg-dry	1	7/13/2016 12:55 PM
Barium	23		0.22	3.7	7.4	mg/Kg-dry	1	7/13/2016 12:55 PM
Beryllium	0.037	J	0.0094	0.037	0.18	mg/Kg-dry	1	7/13/2016 12:55 PM
Cadmium	0.025	J	0.024	0.037	0.18	mg/Kg-dry	1	7/13/2016 12:55 PM
Calcium	300		2.2	7.4	37	mg/Kg-dry	1	7/13/2016 12:55 PM
Chromium	7.1		0.061	0.30	0.37	mg/Kg-dry	1	7/13/2016 12:55 PM
Cobalt	1.7		0.066	0.18	0.74	mg/Kg-dry	1	7/13/2016 12:55 PM
Copper	20		0.31	0.74	3.7	mg/Kg-dry	1	7/13/2016 12:55 PM
Iron	6,900		23	37	110	mg/Kg-dry	10	7/13/2016 1:36 PM
Lead	64		0.46	0.74	3.7	mg/Kg-dry	1	7/13/2016 12:55 PM
Magnesium	830		2.6	3.7	37	mg/Kg-dry	1	7/13/2016 12:55 PM
Manganese	77		0.14	0.18	0.74	mg/Kg-dry	1	7/13/2016 12:55 PM
Nickel	3.3	J	0.21	0.74	3.7	mg/Kg-dry	1	7/13/2016 12:55 PM
Potassium	740		1.7	7.4	15	mg/Kg-dry	1	7/13/2016 12:55 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/13/2016 12:55 PM
Silver	0.18	U	0.060	0.18	0.74	mg/Kg-dry	1	7/13/2016 12:55 PM
Sodium	44		1.5	3.7	37	mg/Kg-dry	1	7/13/2016 12:55 PM
Vanadium	9.3		0.094	0.74	1.8	mg/Kg-dry	1	7/13/2016 12:55 PM
Zinc	17		0.29	0.37	3.7	mg/Kg-dry	1	7/13/2016 12:55 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.067	JG	0.034	0.035	0.14	mg/Kg-dry	10	7/6/2016 5:58 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.030		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/28/2016 10:49 AM
2-Methylnaphthalene	0.041		0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Acenaphthene	0.0080		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/28/2016 10:49 AM
Acenaphthylene	0.0055		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/28/2016 10:49 AM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 12:50:00 PM
Project: Camp Hero
Lab ID: 1606293-013 **Matrix:** Soil
Client Sample ID: H12-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.018		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/28/2016 10:49 AM
Benzo(a)anthracene	0.17		0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Benzo(a)pyrene	0.12		0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Benzo(b)fluoranthene	0.27	Y	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Benzo(g,h,i)perylene	0.074		0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Benzo(k)fluoranthene	0.046	Y	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Chrysene	0.11		0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Dibenzo(a,h)anthracene	0.0095		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/28/2016 10:49 AM
Fluoranthene	0.25		0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Fluorene	0.0074		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/28/2016 10:49 AM
Indeno(1,2,3-cd)pyrene	0.062		0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Naphthalene	0.026		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/28/2016 10:49 AM
Phenanthrene	0.15		0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Pyrene	0.25		0.0073	0.0073	0.0073	mg/Kg-dry	10	7/20/2016 9:45 PM
Surr: 2-Fluorobiphenyl	78.7			46-115		%Rec	1	6/28/2016 10:49 AM
Surr: Nitrobenzene-d5	94.2			44-125		%Rec	1	6/28/2016 10:49 AM
Surr: Terphenyl-d14	157	Q		58-133		%Rec	1	6/28/2016 10:49 AM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00051	U	0.00025	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
1,1,1-Trichloroethane	0.00051	U	0.00018	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
1,1,2,2-Tetrachloroethane	0.00051	U	0.00045	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
1,1,2-Trichloroethane	0.00051	U	0.00033	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
1,1-Dichloroethane	0.00051	U	0.00013	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
1,1-Dichloroethene	0.00051	U	0.00017	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
1,2,3-Trichloropropane	0.00051	U	0.00030	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
1,2-Dibromo-3-chloropropane	0.0017	U	0.0012	0.0017	0.0043	mg/Kg-dry	0.76	6/14/2016 2:12 PM
1,2-Dibromoethane	0.00051	U	0.00038	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
1,2-Dichloroethane	0.00051	U	0.00012	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
1,2-Dichloropropane	0.00051	U	0.00024	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
2-Butanone [MEK]	0.011	J	0.0051	0.0085	0.017	mg/Kg-dry	0.76	6/14/2016 2:12 PM
2-Hexanone	0.0017	U	0.00053	0.0017	0.0043	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Acetone	0.15	YQ	0.00078	0.0017	0.0085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Benzene	0.00051	U	0.00023	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Bromodichloromethane	0.00051	U	0.00017	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Bromoform	0.00051	UQ	0.00028	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Carbon disulfide	0.00051	U	0.00016	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Carbon tetrachloride	0.00051	U	0.00018	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Chlorobenzene	0.00051	U	0.00016	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Chlorodibromomethane	0.00051	U	0.00030	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Chloroethane	0.00085	U	0.00065	0.00085	0.0017	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Chloroform	0.00051	U	0.00041	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Chloromethane	0.00051	U	0.00029	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
cis-1,2-Dichloroethene	0.00051	U	0.00048	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
cis-1,3-Dichloropropene	0.00051	U	0.00014	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Dichlorodifluoromethane [Freon-12]	0.00051	U	0.00033	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606293-013	**Matrix:**	Soil
Client Sample ID:	H12-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Ethylbenzene	0.00051	U	0.00019	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Methylene chloride	0.0017	UB	0.00090	0.0017	0.0043	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Styrene	0.00051	U	0.00019	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Tetrachloroethene	0.00051	U	0.00027	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Toluene	0.00051	UQ	0.00023	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
trans-1,2-Dichloroethene	0.00051	U	0.00016	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
trans-1,3-Dichloropropene	0.00051	U	0.00019	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Trichloroethene	0.00051	U	0.00032	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Trichlorofluoromethane [Freon-11]	0.00051	UY	0.00019	0.00051	0.00085	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Vinyl acetate	0.00051	UY	0.00040	0.00051	0.0043	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Vinyl chloride	0.00051	U	0.00026	0.00051	0.00068	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Xylene (Total)	0.0015	U	0.00039	0.0015	0.0026	mg/Kg-dry	0.76	6/14/2016 2:12 PM
Surr: 4-Bromofluorobenzene	80.6			79-119		%Rec	0.76	6/14/2016 2:12 PM
Surr: Dibromofluoromethane	91.2			78-119		%Rec	0.76	6/14/2016 2:12 PM
Surr: Toluene-d8	87.2			85-116		%Rec	0.76	6/14/2016 2:12 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 4:50:00 PM
Project:	Camp Hero		
Lab ID:	1606293-014	**Matrix:**	Soil
Client Sample ID:	WDS-SB21-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	6/17/2016 3:18 AM
Aroclor 1221	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	6/17/2016 3:18 AM
Aroclor 1232	0.0072	U	0.0048	0.0072	0.036	mg/Kg-dry	1	6/17/2016 3:18 AM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.036	mg/Kg-dry	1	6/17/2016 3:18 AM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.036	mg/Kg-dry	1	6/17/2016 3:18 AM
Aroclor 1254	0.0072	U	0.0046	0.0072	0.036	mg/Kg-dry	1	6/17/2016 3:18 AM
Aroclor 1260	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	6/17/2016 3:18 AM
Aroclor 1262	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	6/17/2016 3:18 AM
Aroclor 1268	0.0072	U	0.0026	0.0072	0.036	mg/Kg-dry	1	6/17/2016 3:18 AM
Surr: Tetrachloro-m-xylene	61.4			44-130		%Rec	1	6/17/2016 3:18 AM
Surr: Decachlorobiphenyl	72.0			60-125		%Rec	1	6/17/2016 3:18 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,300		53	140	350	mg/Kg-dry	100	6/16/2016 3:17 PM
Antimony	2.3		0.27	0.35	0.71	mg/Kg-dry	1	6/16/2016 1:13 PM
Arsenic	1.9		0.51	0.71	1.4	mg/Kg-dry	1	6/16/2016 1:13 PM
Barium	10		0.21	3.5	7.1	mg/Kg-dry	1	6/16/2016 1:13 PM
Beryllium	0.23		0.0090	0.035	0.18	mg/Kg-dry	1	6/16/2016 1:13 PM
Cadmium	0.027	J	0.023	0.035	0.18	mg/Kg-dry	1	6/16/2016 1:13 PM
Calcium	330		2.1	7.1	35	mg/Kg-dry	1	6/16/2016 1:13 PM
Chromium	7.2	G	0.058	0.28	0.35	mg/Kg-dry	1	6/22/2016 2:43 PM
Cobalt	2.4		0.064	0.18	0.71	mg/Kg-dry	1	6/16/2016 1:13 PM
Copper	19		0.29	0.71	3.5	mg/Kg-dry	1	6/16/2016 1:13 PM
Iron	8,100		22	35	110	mg/Kg-dry	10	6/16/2016 2:25 PM
Lead	1.6	J	0.44	0.71	3.5	mg/Kg-dry	1	6/16/2016 1:13 PM
Magnesium	820		2.5	3.5	35	mg/Kg-dry	1	6/16/2016 1:13 PM
Manganese	86		0.13	0.18	0.71	mg/Kg-dry	1	6/22/2016 2:43 PM
Nickel	5.5		0.20	0.71	3.5	mg/Kg-dry	1	6/16/2016 1:13 PM
Potassium	470		1.7	7.1	14	mg/Kg-dry	1	6/16/2016 1:13 PM
Selenium	1.1	U	0.82	1.1	1.4	mg/Kg-dry	1	6/16/2016 1:13 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	6/16/2016 1:13 PM
Sodium	47		1.4	3.5	35	mg/Kg-dry	1	6/16/2016 1:13 PM
Vanadium	11		0.090	0.71	1.8	mg/Kg-dry	1	6/16/2016 1:13 PM
Zinc	7.1		0.27	0.35	3.5	mg/Kg-dry	1	6/16/2016 1:13 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.052	JG	0.034	0.035	0.14	mg/Kg-dry	10	7/6/2016 6:11 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
2-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 4:50:00 PM
Project: Camp Hero
Lab ID: 1606293-014 **Matrix:** Soil
Client Sample ID: WDS-SB21-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Benzo(a)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Benzo(a)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Benzo(b)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Benzo(g,h,i)perylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Benzo(k)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Chrysene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Fluorene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Indeno(1,2,3-cd)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Naphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Phenanthrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 11:19 AM
Surr: 2-Fluorobiphenyl	88.9			46-115		%Rec	1	6/28/2016 11:19 AM
Surr: Nitrobenzene-d5	95.8			44-125		%Rec	1	6/28/2016 11:19 AM
Surr: Terphenyl-d14	112			58-133		%Rec	1	6/28/2016 11:19 AM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.050	UQ	0.024	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
1,1,1-Trichloroethane	0.050	U	0.021	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
1,1,2,2-Tetrachloroethane	0.050	U	0.044	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
1,1,2-Trichloroethane	0.050	U	0.018	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
1,1-Dichloroethane	0.050	U	0.018	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
1,1-Dichloroethene	0.050	U	0.023	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
1,2,3-Trichloropropane	0.050	U	0.047	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
1,2-Dibromo-3-chloropropane	0.17	U	0.098	0.17	0.41	mg/Kg-dry	76.2	6/17/2016 9:36 PM
1,2-Dibromoethane	0.050	U	0.029	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
1,2-Dichloroethane	0.050	U	0.022	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
1,2-Dichloropropane	0.050	U	0.027	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
2-Butanone [MEK]	0.41	U	0.27	0.41	0.83	mg/Kg-dry	76.2	6/17/2016 9:36 PM
2-Hexanone	0.083	U	0.052	0.083	0.17	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Acetone	0.17	U	0.068	0.17	0.41	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Benzene	0.050	U	0.017	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Bromodichloromethane	0.050	UQ	0.021	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Bromoform	0.050	UYQ	0.027	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Carbon disulfide	0.050	U	0.030	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Carbon tetrachloride	0.050	U	0.022	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Chlorobenzene	0.050	U	0.022	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Chlorodibromomethane	0.050	UQ	0.041	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Chloroethane	0.17	UYZ	0.12	0.17	0.41	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Chloroform	0.050	U	0.022	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Chloromethane	0.050	U	0.033	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
cis-1,2-Dichloroethene	0.050	U	0.048	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 4:50:00 PM
Project:	Camp Hero		
Lab ID:	1606293-014	**Matrix:**	Soil
Client Sample ID:	WDS-SB21-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
cis-1,3-Dichloropropene	0.050	UQ	0.013	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Dichlorodifluoromethane [Freon-12]	0.17	U	0.073	0.17	0.41	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Ethylbenzene	0.050	U	0.018	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Methylene chloride	0.083	U	0.063	0.083	0.17	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Styrene	0.050	UQ	0.019	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Tetrachloroethene	0.050	U	0.043	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Toluene	0.050	U	0.022	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
trans-1,2-Dichloroethene	0.050	U	0.017	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
trans-1,3-Dichloropropene	0.050	UQ	0.022	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Trichloroethene	0.050	U	0.012	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Trichlorofluoromethane [Freon-11]	0.050	U	0.046	0.050	0.083	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Vinyl acetate	0.050	U	0.048	0.050	2.1	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Vinyl chloride	0.050	U	0.045	0.050	0.066	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Xylene (Total)	0.15	U	0.077	0.15	0.25	mg/Kg-dry	76.2	6/17/2016 9:36 PM
Surr: 4-Bromofluorobenzene	92.6			79-119		%Rec	76.2	6/17/2016 9:36 PM
Surr: Dibromofluoromethane	87.5			78-119		%Rec	76.2	6/17/2016 9:36 PM
Surr: Toluene-d8	89.2			85-116		%Rec	76.2	6/17/2016 9:36 PM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	7.8		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:35:00 PM
Project:	Camp Hero		
Lab ID:	1606293-015	**Matrix:**	Soil
Client Sample ID:	WDS-SB22-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.062	UQ	0.030	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
1,1,1-Trichloroethane	0.062	U	0.026	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
1,1,2,2-Tetrachloroethane	0.062	U	0.054	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
1,1,2-Trichloroethane	0.062	U	0.022	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
1,1-Dichloroethane	0.062	U	0.022	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
1,1-Dichloroethene	0.062	U	0.029	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
1,2,3-Trichloropropane	0.062	U	0.059	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
1,2-Dibromo-3-chloropropane	0.21	U	0.12	0.21	0.51	mg/Kg-dry	90	6/17/2016 10:01 PM
1,2-Dibromoethane	0.062	U	0.036	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
1,2-Dichloroethane	0.062	U	0.027	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
1,2-Dichloropropane	0.062	U	0.034	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
2-Butanone [MEK]	0.51	U	0.34	0.51	1.0	mg/Kg-dry	90	6/17/2016 10:01 PM
2-Hexanone	0.10	U	0.064	0.10	0.21	mg/Kg-dry	90	6/17/2016 10:01 PM
Acetone	0.21	J	0.085	0.21	0.51	mg/Kg-dry	90	6/17/2016 10:01 PM
Benzene	0.062	U	0.021	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Bromodichloromethane	0.062	UQ	0.027	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Bromoform	0.062	UYQ	0.034	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Carbon disulfide	0.062	U	0.037	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Carbon tetrachloride	0.062	U	0.028	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Chlorobenzene	0.062	U	0.027	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Chlorodibromomethane	0.062	UQ	0.051	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Chloroethane	0.21	UYZ	0.15	0.21	0.51	mg/Kg-dry	90	6/17/2016 10:01 PM
Chloroform	0.062	U	0.028	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Chloromethane	0.062	U	0.041	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
cis-1,2-Dichloroethene	0.062	U	0.059	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
cis-1,3-Dichloropropene	0.062	UQ	0.016	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Dichlorodifluoromethane [Freon-12]	0.21	U	0.090	0.21	0.51	mg/Kg-dry	90	6/17/2016 10:01 PM
Ethylbenzene	0.062	U	0.023	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Methylene chloride	0.10	U	0.079	0.10	0.21	mg/Kg-dry	90	6/17/2016 10:01 PM
Styrene	0.062	UQ	0.024	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Tetrachloroethene	0.062	U	0.053	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Toluene	0.062	U	0.027	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
trans-1,2-Dichloroethene	0.062	U	0.021	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
trans-1,3-Dichloropropene	0.062	UQ	0.028	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Trichloroethene	0.062	U	0.015	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Trichlorofluoromethane [Freon-11]	0.062	U	0.057	0.062	0.10	mg/Kg-dry	90	6/17/2016 10:01 PM
Vinyl acetate	0.062	U	0.059	0.062	2.6	mg/Kg-dry	90	6/17/2016 10:01 PM
Vinyl chloride	0.062	U	0.056	0.062	0.082	mg/Kg-dry	90	6/17/2016 10:01 PM
Xylene (Total)	0.18	U	0.095	0.18	0.31	mg/Kg-dry	90	6/17/2016 10:01 PM
Surr: 4-Bromofluorobenzene	91.3			79-119		%Rec	90	6/17/2016 10:01 PM
Surr: Dibromofluoromethane	89.7			78-119		%Rec	90	6/17/2016 10:01 PM
Surr: Toluene-d8	88.5			85-116		%Rec	90	6/17/2016 10:01 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:35:00 PM
Project:	Camp Hero		
Lab ID:	1606293-015	**Matrix:**	Soil
Client Sample ID:	WDS-SB22-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 2:30:00 PM
Project:	Camp Hero		
Lab ID:	1606293-016	**Matrix:**	Soil
Client Sample ID:	WDS-SB23-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.13	U	0.063	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
1,1,1-Trichloroethane	0.13	U	0.055	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
1,1,2,2-Tetrachloroethane	0.13	U	0.12	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
1,1,2-Trichloroethane	0.13	U	0.048	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
1,1-Dichloroethane	0.13	U	0.047	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
1,1-Dichloroethene	0.13	U	0.062	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
1,2,3-Trichloropropane	0.13	U	0.13	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
1,2-Dibromo-3-chloropropane	0.44	U	0.26	0.44	1.1	mg/Kg-dry	133.9	6/20/2016 1:20 PM
1,2-Dibromoethane	0.13	U	0.078	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
1,2-Dichloroethane	0.13	U	0.058	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
1,2-Dichloropropane	0.13	U	0.073	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
2-Butanone [MEK]	0.80	J	0.73	1.1	2.2	mg/Kg-dry	133.9	6/20/2016 1:20 PM
2-Hexanone	0.22	U	0.14	0.22	0.44	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Acetone	1.4		0.18	0.44	1.1	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Benzene	0.13	U	0.045	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Bromodichloromethane	0.13	U	0.057	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Bromoform	0.13	UQ	0.073	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Carbon disulfide	0.13	U	0.079	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Carbon tetrachloride	0.13	UY	0.059	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Chlorobenzene	0.13	U	0.058	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Chlorodibromomethane	0.13	U	0.11	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Chloroethane	0.44	UYZ	0.32	0.44	1.1	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Chloroform	0.13	U	0.060	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Chloromethane	0.13	U	0.089	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
cis-1,2-Dichloroethene	0.13	U	0.13	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
cis-1,3-Dichloropropene	0.13	U	0.035	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Dichlorodifluoromethane [Freon-12]	0.44	U	0.19	0.44	1.1	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Ethylbenzene	0.13	U	0.049	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Methylene chloride	0.22	U	0.17	0.22	0.44	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Styrene	0.13	U	0.051	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Tetrachloroethene	0.13	U	0.11	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Toluene	0.13	U	0.059	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
trans-1,2-Dichloroethene	0.13	U	0.045	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
trans-1,3-Dichloropropene	0.13	U	0.059	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Trichloroethene	0.13	U	0.032	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Trichlorofluoromethane [Freon-11]	0.13	U	0.12	0.13	0.22	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Vinyl acetate	0.13	U	0.13	0.13	5.5	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Vinyl chloride	0.13	U	0.12	0.13	0.18	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Xylene (Total)	0.40	U	0.20	0.40	0.66	mg/Kg-dry	133.9	6/20/2016 1:20 PM
Surr: 4-Bromofluorobenzene	95.5			79-119		%Rec	133.9	6/20/2016 1:20 PM
Surr: Dibromofluoromethane	93.0			78-119		%Rec	133.9	6/20/2016 1:20 PM
Surr: Toluene-d8	89.0			85-116		%Rec	133.9	6/20/2016 1:20 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 2:30:00 PM
Project:	Camp Hero		
Lab ID:	1606293-016	**Matrix:**	Soil
Client Sample ID:	WDS-SB23-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	39		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 2:10:00 PM
Project:	Camp Hero		
Lab ID:	1606293-017	**Matrix:**	Soil
Client Sample ID:	WDS-SB24-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00044	U	0.00021	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
1,1,1-Trichloroethane	0.00044	U	0.00015	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
1,1,2,2-Tetrachloroethane	0.00044	U	0.00039	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
1,1,2-Trichloroethane	0.00044	U	0.00028	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
1,1-Dichloroethane	0.00044	U	0.00011	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
1,1-Dichloroethene	0.00044	U	0.00015	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
1,2,3-Trichloropropane	0.00044	U	0.00026	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
1,2-Dibromo-3-chloropropane	0.0015	U	0.0010	0.0015	0.0036	mg/Kg-dry	0.59	6/14/2016 3:58 PM
1,2-Dibromoethane	0.00044	U	0.00033	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
1,2-Dichloroethane	0.00044	U	0.000098	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
1,2-Dichloropropane	0.00044	U	0.00020	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
2-Butanone [MEK]	0.0092	J	0.0043	0.0073	0.015	mg/Kg-dry	0.59	6/14/2016 3:58 PM
2-Hexanone	0.0015	U	0.00045	0.0015	0.0036	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Acetone	0.072	YQ	0.00066	0.0015	0.0073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Benzene	0.00044	U	0.00020	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Bromodichloromethane	0.00044	U	0.00015	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Bromoform	0.00044	UQ	0.00024	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Carbon disulfide	0.0052		0.00013	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Carbon tetrachloride	0.00044	U	0.00015	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Chlorobenzene	0.00044	U	0.00014	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Chlorodibromomethane	0.00044	U	0.00025	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Chloroethane	0.00073	U	0.00055	0.00073	0.0015	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Chloroform	0.00044	U	0.00034	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Chloromethane	0.00044	U	0.00025	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
cis-1,2-Dichloroethene	0.00044	U	0.00041	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
cis-1,3-Dichloropropene	0.00044	U	0.00012	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Dichlorodifluoromethane [Freon-12]	0.00044	U	0.00028	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Ethylbenzene	0.00044	U	0.00016	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Methylene chloride	0.0015	UB	0.00077	0.0015	0.0036	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Styrene	0.00044	U	0.00017	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Tetrachloroethene	0.00044	U	0.00023	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Toluene	0.00044	UQ	0.00019	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
trans-1,2-Dichloroethene	0.00044	U	0.00014	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
trans-1,3-Dichloropropene	0.00044	U	0.00017	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Trichloroethene	0.00044	U	0.00028	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Trichlorofluoromethane [Freon-11]	0.00044	UY	0.00016	0.00044	0.00073	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Vinyl acetate	0.00044	UY	0.00034	0.00044	0.0036	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Vinyl chloride	0.00044	U	0.00022	0.00044	0.00058	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Xylene (Total)	0.0013	U	0.00033	0.0013	0.0022	mg/Kg-dry	0.59	6/14/2016 3:58 PM
Surr: 4-Bromofluorobenzene	81.2			79-119		%Rec	0.59	6/14/2016 3:58 PM
Surr: Dibromofluoromethane	94.0			78-119		%Rec	0.59	6/14/2016 3:58 PM
Surr: Toluene-d8	86.1			85-116		%Rec	0.59	6/14/2016 3:58 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 2:10:00 PM
Project:	Camp Hero		
Lab ID:	1606293-017	**Matrix:**	Soil
Client Sample ID:	WDS-SB24-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 3:50:00 PM
Project: Camp Hero
Lab ID: 1606293-018 **Matrix:** Soil
Client Sample ID: WDS-SB25-08

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00057	U	0.00027	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
1,1,1-Trichloroethane	0.00057	U	0.00020	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
1,1,2,2-Tetrachloroethane	0.00057	U	0.00050	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
1,1,2-Trichloroethane	0.00057	U	0.00037	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
1,1-Dichloroethane	0.00057	U	0.00014	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
1,1-Dichloroethene	0.00057	U	0.00019	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
1,2,3-Trichloropropane	0.00057	U	0.00034	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
1,2-Dibromo-3-chloropropane	0.0019	U	0.0013	0.0019	0.0048	mg/Kg-dry	0.82	6/14/2016 4:24 PM
1,2-Dibromoethane	0.00057	U	0.00043	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
1,2-Dichloroethane	0.00057	U	0.00013	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
1,2-Dichloropropane	0.00057	U	0.00026	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
2-Butanone [MEK]	0.0095	U	0.0056	0.0095	0.019	mg/Kg-dry	0.82	6/14/2016 4:24 PM
2-Hexanone	0.0019	U	0.00060	0.0019	0.0048	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Acetone	0.15	YQ	0.00087	0.0019	0.0095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Benzene	0.00057	U	0.00026	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Bromodichloromethane	0.00057	U	0.00019	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Bromoform	0.00057	UQ	0.00031	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Carbon disulfide	0.00057	U	0.00018	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Carbon tetrachloride	0.00057	U	0.00020	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Chlorobenzene	0.00057	U	0.00018	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Chlorodibromomethane	0.00057	U	0.00033	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Chloroethane	0.00095	U	0.00072	0.00095	0.0019	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Chloroform	0.00057	U	0.00045	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Chloromethane	0.00057	U	0.00033	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
cis-1,2-Dichloroethene	0.00057	U	0.00053	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
cis-1,3-Dichloropropene	0.00057	U	0.00015	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Dichlorodifluoromethane [Freon-12]	0.00057	U	0.00036	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Ethylbenzene	0.00057	U	0.00021	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Methylene chloride	0.0019	UB	0.0010	0.0019	0.0048	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Styrene	0.00057	U	0.00022	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Tetrachloroethene	0.00057	U	0.00031	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Toluene	0.00057	UQ	0.00025	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
trans-1,2-Dichloroethene	0.00057	U	0.00018	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
trans-1,3-Dichloropropene	0.00057	U	0.00022	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Trichloroethene	0.00057	U	0.00036	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Trichlorofluoromethane [Freon-11]	0.00057	UY	0.00021	0.00057	0.00095	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Vinyl acetate	0.00057	UY	0.00045	0.00057	0.0048	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Vinyl chloride	0.00057	U	0.00029	0.00057	0.00076	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Xylene (Total)	0.0017	U	0.00043	0.0017	0.0029	mg/Kg-dry	0.82	6/14/2016 4:24 PM
Surr: 4-Bromofluorobenzene	86.9			79-119		%Rec	0.82	6/14/2016 4:24 PM
Surr: Dibromofluoromethane	95.5			78-119		%Rec	0.82	6/14/2016 4:24 PM
Surr: Toluene-d8	87.0			85-116		%Rec	0.82	6/14/2016 4:24 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:50:00 PM
Project:	Camp Hero		
Lab ID:	1606293-018	**Matrix:**	Soil
Client Sample ID:	WDS-SB25-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 4:20:00 PM
Project: Camp Hero
Lab ID: 1606293-019 **Matrix:** Soil
Client Sample ID: WDS-SB26-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00058	U	0.00028	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
1,1,1-Trichloroethane	0.00058	U	0.00020	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
1,1,2,2-Tetrachloroethane	0.00058	U	0.00051	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
1,1,2-Trichloroethane	0.00058	U	0.00038	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
1,1-Dichloroethane	0.00058	U	0.00015	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
1,1-Dichloroethene	0.00058	U	0.00020	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
1,2,3-Trichloropropane	0.00058	U	0.00034	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
1,2-Dibromo-3-chloropropane	0.0019	U	0.0014	0.0019	0.0048	mg/Kg-dry	0.8	6/14/2016 4:51 PM
1,2-Dibromoethane	0.00058	U	0.00044	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
1,2-Dichloroethane	0.00058	U	0.00013	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
1,2-Dichloropropane	0.00058	U	0.00027	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
2-Butanone [MEK]	0.0097	U	0.0057	0.0097	0.019	mg/Kg-dry	0.8	6/14/2016 4:51 PM
2-Hexanone	0.0019	U	0.00061	0.0019	0.0048	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Acetone	0.068	YQ	0.00088	0.0019	0.0097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Benzene	0.00058	U	0.00026	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Bromodichloromethane	0.00058	U	0.00019	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Bromoform	0.00058	UQ	0.00032	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Carbon disulfide	0.00058	U	0.00018	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Carbon tetrachloride	0.00058	U	0.00021	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Chlorobenzene	0.00058	U	0.00018	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Chlorodibromomethane	0.00058	U	0.00034	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Chloroethane	0.00097	U	0.00073	0.00097	0.0019	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Chloroform	0.00058	U	0.00046	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Chloromethane	0.00058	U	0.00033	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
cis-1,2-Dichloroethene	0.00058	U	0.00054	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
cis-1,3-Dichloropropene	0.00058	U	0.00016	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Dichlorodifluoromethane [Freon-12]	0.00058	U	0.00037	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Ethylbenzene	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Methylene chloride	0.0019	UB	0.0010	0.0019	0.0048	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Styrene	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Tetrachloroethene	0.00058	U	0.00031	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Toluene	0.00058	UQ	0.00026	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
trans-1,2-Dichloroethene	0.00058	U	0.00018	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
trans-1,3-Dichloropropene	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Trichloroethene	0.00058	U	0.00037	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Trichlorofluoromethane [Freon-11]	0.00058	UY	0.00022	0.00058	0.00097	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Vinyl acetate	0.00058	UY	0.00046	0.00058	0.0048	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Vinyl chloride	0.00058	U	0.00030	0.00058	0.00077	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Xylene (Total)	0.0017	U	0.00044	0.0017	0.0029	mg/Kg-dry	0.8	6/14/2016 4:51 PM
Surr: 4-Bromofluorobenzene	88.0			79-119		%Rec	0.8	6/14/2016 4:51 PM
Surr: Dibromofluoromethane	95.5			78-119		%Rec	0.8	6/14/2016 4:51 PM
Surr: Toluene-d8	87.4			85-116		%Rec	0.8	6/14/2016 4:51 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 4:20:00 PM
Project:	Camp Hero		
Lab ID:	1606293-019	**Matrix:**	Soil
Client Sample ID:	WDS-SB26-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:05:00 PM
Project:	Camp Hero		
Lab ID:	1606293-020	**Matrix:**	Soil
Client Sample ID:	WDS-SB27-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.20	UQ	0.098	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
1,1,1-Trichloroethane	0.20	U	0.085	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
1,1,2,2-Tetrachloroethane	0.20	U	0.18	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
1,1,2-Trichloroethane	0.20	U	0.074	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
1,1-Dichloroethane	0.20	U	0.073	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
1,1-Dichloroethene	0.20	U	0.096	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
1,2,3-Trichloropropane	0.20	U	0.19	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
1,2-Dibromo-3-chloropropane	0.68	U	0.40	0.68	1.7	mg/Kg-dry	268.1	6/17/2016 10:26 PM
1,2-Dibromoethane	0.20	U	0.12	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
1,2-Dichloroethane	0.20	U	0.090	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
1,2-Dichloropropane	0.20	U	0.11	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
2-Butanone [MEK]	1.7	U	1.1	1.7	3.4	mg/Kg-dry	268.1	6/17/2016 10:26 PM
2-Hexanone	0.34	U	0.21	0.34	0.68	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Acetone	0.68	U	0.28	0.68	1.7	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Benzene	0.20	U	0.069	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Bromodichloromethane	0.20	UQ	0.088	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Bromoform	0.20	UYQ	0.11	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Carbon disulfide	0.20	U	0.12	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Carbon tetrachloride	0.20	U	0.091	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Chlorobenzene	0.20	U	0.090	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Chlorodibromomethane	0.20	UQ	0.17	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Chloroethane	0.68	UYZ	0.50	0.68	1.7	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Chloroform	0.20	U	0.092	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Chloromethane	0.20	U	0.14	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
cis-1,2-Dichloroethene	0.20	U	0.20	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
cis-1,3-Dichloropropene	0.20	UQ	0.053	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Dichlorodifluoromethane [Freon-12]	0.68	U	0.30	0.68	1.7	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Ethylbenzene	0.20	U	0.076	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Methylene chloride	0.34	U	0.26	0.34	0.68	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Styrene	0.20	UQ	0.078	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Tetrachloroethene	0.20	U	0.18	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Toluene	0.20	U	0.091	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
trans-1,2-Dichloroethene	0.20	U	0.069	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
trans-1,3-Dichloropropene	0.20	UQ	0.092	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Trichloroethene	0.20	U	0.050	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Trichlorofluoromethane [Freon-11]	0.20	U	0.19	0.20	0.34	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Vinyl acetate	0.20	U	0.20	0.20	8.5	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Vinyl chloride	0.20	U	0.19	0.20	0.27	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Xylene (Total)	0.61	U	0.32	0.61	1.0	mg/Kg-dry	268.1	6/17/2016 10:26 PM
Surr: 4-Bromofluorobenzene	91.9			79-119		%Rec	268.1	6/17/2016 10:26 PM
Surr: Dibromofluoromethane	89.1			78-119		%Rec	268.1	6/17/2016 10:26 PM
Surr: Toluene-d8	89.4			85-116		%Rec	268.1	6/17/2016 10:26 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:05:00 PM
Project:	Camp Hero		
Lab ID:	1606293-020	**Matrix:**	Soil
Client Sample ID:	WDS-SB27-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	21		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 3:05:00 PM
Project: Camp Hero
Lab ID: 1606293-021 **Matrix:** Soil
Client Sample ID: WDS-SB27-08 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00029	U	0.00014	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
1,1,1-Trichloroethane	0.00029	U	0.00010	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
1,1,2,2-Tetrachloroethane	0.00029	U	0.00026	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
1,1,2-Trichloroethane	0.00029	U	0.00019	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
1,1-Dichloroethane	0.00029	U	0.000073	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
1,1-Dichloroethene	0.00029	U	0.00010	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
1,2,3-Trichloropropane	0.00029	U	0.00017	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
1,2-Dibromo-3-chloropropane	0.00098	U	0.00069	0.00098	0.0024	mg/Kg-dry	0.4	6/15/2016 12:03 PM
1,2-Dibromoethane	0.00029	U	0.00022	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
1,2-Dichloroethane	0.00029	U	0.000066	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
1,2-Dichloropropane	0.00029	U	0.00014	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
2-Butanone [MEK]	0.0049	U	0.0029	0.0049	0.0098	mg/Kg-dry	0.4	6/15/2016 12:03 PM
2-Hexanone	0.00098	U	0.00031	0.00098	0.0024	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Acetone	0.032	YQ	0.00045	0.00098	0.0049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Benzene	0.00029	U	0.00013	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Bromodichloromethane	0.00029	U	0.000098	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Bromoform	0.00029	U	0.00016	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Carbon disulfide	0.00030	J	0.000091	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Carbon tetrachloride	0.00029	U	0.00010	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Chlorobenzene	0.00029	U	0.000092	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Chlorodibromomethane	0.00029	U	0.00017	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Chloroethane	0.00049	U	0.00037	0.00049	0.00098	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Chloroform	0.00029	U	0.00023	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Chloromethane	0.00029	U	0.00017	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
cis-1,2-Dichloroethene	0.00029	U	0.00027	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
cis-1,3-Dichloropropene	0.00029	U	0.000079	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Dichlorodifluoromethane [Freon-12]	0.00029	U	0.00019	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Ethylbenzene	0.00029	U	0.00011	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Methylene chloride	0.00098	UBQ	0.00052	0.00098	0.0024	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Styrene	0.00029	U	0.00011	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Tetrachloroethene	0.00029	U	0.00016	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Toluene	0.00029	U	0.00013	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
trans-1,2-Dichloroethene	0.00029	U	0.000091	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
trans-1,3-Dichloropropene	0.00029	U	0.00011	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Trichloroethene	0.00029	U	0.00019	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Trichlorofluoromethane [Freon-11]	0.00029	U	0.00011	0.00029	0.00049	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Vinyl acetate	0.00029	UY	0.00023	0.00029	0.0024	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Vinyl chloride	0.00029	U	0.00015	0.00029	0.00039	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Xylene (Total)	0.00088	U	0.00022	0.00088	0.0015	mg/Kg-dry	0.4	6/15/2016 12:03 PM
Surr: 4-Bromofluorobenzene	84.4			79-119		%Rec	0.4	6/15/2016 12:03 PM
Surr: Dibromofluoromethane	96.6			78-119		%Rec	0.4	6/15/2016 12:03 PM
Surr: Toluene-d8	89.2			85-116		%Rec	0.4	6/15/2016 12:03 PM

RTI Laboratories - Analytical Report

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 3:05:00 PM
Project:	Camp Hero		
Lab ID:	1606293-021	**Matrix:**	Soil
Client Sample ID:	WDS-SB27-08 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	18		1.0	1.0	1.0	wt%	1	6/10/2016 1:30 PM

RTI Laboratories - DATES REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606293-001A	TB-SO-060716-01	6/7/2016 8:50 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/13/2016 4:33 PM	6/13/2016 4:33 PM
				SW_8260S-LL-Volatile Organic Compounds		6/14/2016 9:48 AM	6/14/2016 9:48 AM
1606293-002B	H20-SS01-01	6/7/2016 10:15 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/17/2016 7:56 PM	6/17/2016 7:56 PM
1606293-002D	H20-SS01-01	6/7/2016 10:15 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/13/2016 9:44 AM	6/14/2016 5:34 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/20/2016 6:52 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/24/2016 7:53 PM
1606293-002E	H20-SS01-01	6/7/2016 10:15 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/16/2016 9:36 PM
1606293-002F	H20-SS01-01	6/7/2016 10:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:29 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:09 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:21 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 3:02 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:39 PM
1606293-002G	H20-SS01-01	6/7/2016 10:15 AM	Soil				
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606293-003A	H20-SS01-02	6/7/2016 10:20 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/14/2016 11:07 AM	6/14/2016 11:07 AM
1606293-003D	H20-SS01-02	6/7/2016 10:20 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/13/2016 9:44 AM	6/14/2016 5:58 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/20/2016 7:20 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/24/2016 8:21 PM
1606293-003E	H20-SS01-02	6/7/2016 10:20 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/16/2016 10:01 PM
1606293-003F	H20-SS01-02	6/7/2016 10:20 AM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:29 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:10 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:22 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 3:04 PM

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Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606293-003F	H20-SS01-02	6/7/2016 10:20 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:40 PM
1606293-003G	H20-SS01-02	6/7/2016 10:20 AM	Soil				
				PMOIST-Percent Moisture		6/9/2016 2:10 PM	6/9/2016 2:10 PM
1606293-004B	H20-SS02-01	6/7/2016 10:25 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/17/2016 8:21 PM	6/17/2016 8:21 PM
1606293-004D	H20-SS02-01	6/7/2016 10:25 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/13/2016 9:44 AM	6/15/2016 8:26 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/20/2016 7:48 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/24/2016 8:48 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/14/2016 6:23 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 2:38 PM
1606293-004E	H20-SS02-01	6/7/2016 10:25 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/16/2016 10:25 PM
1606293-004F	H20-SS02-01	6/7/2016 10:25 AM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:30 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:12 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:24 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 3:15 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:42 PM
1606293-004G	H20-SS02-01	6/7/2016 10:25 AM	Soil				
				PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-005A	H20-SS02-02	6/7/2016 10:50 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/13/2016 9:49 PM	6/13/2016 9:49 PM
				SW_8260S-LL-Volatile Organic Compounds		6/14/2016 5:17 PM	6/14/2016 5:17 PM
1606293-005D	H20-SS02-02	6/7/2016 10:50 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/13/2016 9:44 AM	6/14/2016 6:47 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/20/2016 8:16 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/20/2016 8:16 PM
1606293-005E	H20-SS02-02	6/7/2016 10:50 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/16/2016 10:49 PM

RTI Laboratories - DATES REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606293-005F	H20-SS02-02	6/7/2016 10:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:11 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 12:00 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 12:12 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 12:15 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:00 PM
1606293-005G	H20-SS02-02	6/7/2016 10:50 AM	Soil				
				PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-006A	H9-SS01-01	6/6/2016 2:15 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/20/2016 9:40 PM
1606293-006B	H9-SS01-01	6/6/2016 2:15 PM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:31 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:15 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:27 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 3:18 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:44 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 3:07 PM
				PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-007B	H3-SS01-01	6/7/2016 9:10 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/17/2016 8:46 PM	6/17/2016 8:46 PM
1606293-007D	H3-SS01-01	6/7/2016 9:10 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/13/2016 9:44 AM	6/14/2016 8:01 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/20/2016 10:08 PM
1606293-007E	H3-SS01-01	6/7/2016 9:10 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/17/2016 12:02 AM
1606293-007F	H3-SS01-01	6/7/2016 9:10 AM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:31 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 12:50 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:31 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:32 PM
1606293-007G	H3-SS01-01	6/7/2016 9:10 AM	Soil				
				PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM

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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606293-008A	H3-SS01-02	6/7/2016 9:15 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/13/2016 7:11 PM	6/13/2016 7:11 PM
				SW_8260S-LL-Volatile Organic Compounds		6/14/2016 12:26 PM	6/14/2016 12:26 PM
1606293-008D	H3-SS01-02	6/7/2016 9:15 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/13/2016 9:44 AM	6/14/2016 8:26 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/20/2016 10:36 PM
1606293-008E	H3-SS01-02	6/7/2016 9:15 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/17/2016 12:27 AM
1606293-008F	H3-SS01-02	6/7/2016 9:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:32 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 12:51 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:32 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:33 PM
				PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-009B	H3-SS02-01	6/7/2016 9:20 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/17/2016 9:11 PM	6/17/2016 9:11 PM
1606293-009D	H3-SS02-01	6/7/2016 9:20 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/13/2016 9:44 AM	6/14/2016 8:50 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/14/2016 3:39 PM	6/20/2016 11:05 PM
1606293-009E	H3-SS02-01	6/7/2016 9:20 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/17/2016 12:51 AM
1606293-009F	H3-SS02-01	6/7/2016 9:20 AM	Soil				
				SW_6020S-Metals, ICP/MS		6/15/2016 11:56 AM	7/6/2016 3:33 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:48 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:32 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 3:21 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:47 PM
1606293-009G	H3-SS02-01	6/7/2016 9:20 AM	Soil				
				PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-010A	H3-SS02-02	6/7/2016 9:25 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/13/2016 8:03 PM	6/13/2016 8:03 PM
				SW_8260S-LL-Volatile Organic Compounds		6/14/2016 1:19 PM	6/14/2016 1:19 PM

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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606293-010D	H3-SS02-02	6/7/2016 9:25 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/13/2016 9:44 AM	6/14/2016 9:15 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 5:27 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/28/2016 9:51 AM
1606293-010E	H3-SS02-02	6/7/2016 9:25 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/17/2016 1:16 AM
1606293-010F	H3-SS02-02	6/7/2016 9:25 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 5:56 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 12:52 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:33 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:34 PM
1606293-010G	H3-SS02-02	6/7/2016 9:25 AM	Soil				
				PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-011A	TB-SO-060716-02	6/7/2016 9:00 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/13/2016 4:59 PM	6/13/2016 4:59 PM
				SW_8260S-LL-Volatile Organic Compounds		6/14/2016 10:14 AM	6/14/2016 10:14 AM
1606293-012A	H12-SB01-05	6/7/2016 1:00 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/13/2016 8:30 PM	6/13/2016 8:30 PM
				SW_8260S-LL-Volatile Organic Compounds		6/14/2016 1:46 PM	6/14/2016 1:46 PM
1606293-012D	H12-SB01-05	6/7/2016 1:00 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/28/2016 10:20 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	7/20/2016 9:18 PM
1606293-012E	H12-SB01-05	6/7/2016 1:00 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/17/2016 2:29 AM
1606293-012F	H12-SB01-05	6/7/2016 1:00 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 5:57 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 12:54 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:34 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:35 PM
1606293-012G	H12-SB01-05	6/7/2016 1:00 PM	Soil				
				PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM

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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606293-013A	H12-SS01-01	6/7/2016 12:50 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/13/2016 8:56 PM	6/13/2016 8:56 PM
				SW_8260S-LL-Volatile Organic Compounds		6/14/2016 2:12 PM	6/14/2016 2:12 PM
1606293-013D	H12-SS01-01	6/7/2016 12:50 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/28/2016 10:49 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	7/20/2016 9:45 PM
1606293-013E	H12-SS01-01	6/7/2016 12:50 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/17/2016 2:54 AM
1606293-013F	H12-SS01-01	6/7/2016 12:50 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 5:58 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 12:55 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:36 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:37 PM
1606293-013G	H12-SS01-01	6/7/2016 12:50 PM	Soil				
				PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-014B	WDS-SB21-05	6/7/2016 4:50 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/17/2016 9:36 PM	6/17/2016 9:36 PM
1606293-014D	WDS-SB21-05	6/7/2016 4:50 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/28/2016 11:19 AM
1606293-014E	WDS-SB21-05	6/7/2016 4:50 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 8:00 AM	6/17/2016 3:18 AM
1606293-014F	WDS-SB21-05	6/7/2016 4:50 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 6:11 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 1:13 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 2:25 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/16/2016 3:17 PM
				SW_6010S-Metals, ICP/OES		6/13/2016 10:14 AM	6/22/2016 2:43 PM
1606293-014G	WDS-SB21-05	6/7/2016 4:50 PM	Soil				
				PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-015A	WDS-SB22-05	6/7/2016 3:35 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/17/2016 10:01 PM	6/17/2016 10:01 PM

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Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606293-015D	WDS-SB22-05	6/7/2016 3:35 PM	Soil	PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-016B	WDS-SB23-05	6/7/2016 2:30 PM	Soil	SW_8260S-Volatile Organic Compounds		6/20/2016 1:20 PM	6/20/2016 1:20 PM
1606293-016D	WDS-SB23-05	6/7/2016 2:30 PM	Soil	PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-017A	WDS-SB24-04	6/7/2016 2:10 PM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/14/2016 3:58 PM	6/14/2016 3:58 PM
1606293-017D	WDS-SB24-04	6/7/2016 2:10 PM	Soil	PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-018A	WDS-SB25-08	6/7/2016 3:50 PM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/14/2016 4:24 PM	6/14/2016 4:24 PM
1606293-018D	WDS-SB25-08	6/7/2016 3:50 PM	Soil	PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-019A	WDS-SB26-05	6/7/2016 4:20 PM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/14/2016 4:51 PM	6/14/2016 4:51 PM
1606293-019D	WDS-SB26-05	6/7/2016 4:20 PM	Soil	PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-020B	WDS-SB27-08	6/7/2016 3:05 PM	Soil	SW_8260S-Volatile Organic Compounds		6/17/2016 10:26 PM	6/17/2016 10:26 PM
1606293-020D	WDS-SB27-08	6/7/2016 3:05 PM	Soil	PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM
1606293-021A	WDS-SB27-08 DUP	6/7/2016 3:05 PM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/15/2016 12:03 PM	6/15/2016 12:03 PM
1606293-021D	WDS-SB27-08 DUP	6/7/2016 3:05 PM	Soil	PMOIST-Percent Moisture		6/10/2016 1:30 PM	6/10/2016 1:30 PM

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Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40135

Sample ID:	MB-40135	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	PBS	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1681847

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.017	0.16									U
1,2-Dichlorobenzene	0.017	0.16									U
1,3-Dichlorobenzene	0.017	0.16									U
1,4-Dichlorobenzene	0.017	0.16									U
2,4,5-Trichlorophenol	0.033	0.16									U
2,4,6-Trichlorophenol	0.033	0.16									U
2,4-Dichlorophenol	0.083	0.16									U
2,4-Dimethyl phenol	0.083	0.16									U
2,4-Dinitrophenol	0.17	0.83									UY
2,4-Dinitrotoluene	0.017	0.16									U
2,6-Dinitrotoluene	0.017	0.16									U
2-Chloronaphthalene	0.017	0.16									U
2-Chlorophenol	0.083	0.16									U
2-Methylphenol (o-Cresol)	0.083	0.16									U
2-Nitroaniline	0.017	0.32									U
2-Nitrophenol	0.083	0.16									UY
3,3´-Dichlorobenzidine	0.66	1.0									U
3-Nitroaniline	0.017	0.32									U
3/4-Methylphenol [m/p-Cresol]	0.083	0.32									U
4,6-Dinitro-2-methylphenol	0.083	0.32									UY
4-Bromophenyl phenyl ether	0.083	0.20									U
4-Chloro-3-methylphenol	0.033	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.083	0.16									U
4-Chlorophenyl phenyl ether	0.017	0.16									U
4-Nitroaniline	0.083	0.32									U
4-Nitrophenol	0.33	0.83									U
Benzoic acid	0.33	1.0									UZ
Benzyl alcohol	0.017	0.66									U
Bis(2-chloroethoxy) methane	0.017	0.16									U
Bis(2-chloroethyl) ether	0.033	0.16									U

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Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40135**

Sample ID:	**MB-40135**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/13/2016**	RunNo:	**86688**
Client ID:	**PBS**	Batch ID:	**40135**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/14/2016**	SeqNo:	**1681847**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.017	0.16									UZ
Bis(2-ethylhexyl) phthalate	0.033	0.16									U
Butyl benzyl phthalate	0.033	0.16									U
Carbazole	0.017	0.16									U
Di-n-butyl phthalate	0.033	0.16									U
Di-n-octyl phthalate	0.017	0.16									U
Dibenzofuran	0.017	0.16									U
Diethyl phthalate	0.017	0.16									U
Dimethyl phthalate	0.017	0.16									U
Hexachlorobenzene	0.017	0.16									U
Hexachlorobutadiene	0.017	0.050									U
Hexachloroethane	0.017	0.16									U
Isophorone	0.017	0.16									U
N-Nitroso-di-n-propylamine	0.017	0.16									U
N-Nitrosodimethylamine	0.017	0.16									U
N-Nitrosodiphenylamine	0.017	0.16									U
Nitrobenzene	0.017	0.16									U
Pentachlorophenol	0.083	0.16									UY
Phenol	0.083	0.16									U
Surr: 2,4,6-Tribromophenol	650		830.3		78.0	39	132				
Surr: 2-Fluorobiphenyl	650		830.3		77.9	44	115				
Surr: 2-Fluorophenol	610		830.3		73.2	35	115				
Surr: Nitrobenzene-d5	640		830.3		76.6	37	122				
Surr: Phenol-d5	610		830.3		73.5	33	122				
Surr: Terphenyl-d14	700		830.3		84.0	54	127				

Sample ID:	**LCS-40135**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/13/2016**	RunNo:	**86688**
Client ID:	**LCSS**	Batch ID:	**40135**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/14/2016**	SeqNo:	**1711394**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.45	0.16	0.66	0	68.0	34	118				

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Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40135**

Sample ID:	**LCS-40135**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/13/2016**	RunNo:	**86688**
Client ID:	**LCSS**	Batch ID:	**40135**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/14/2016**	SeqNo:	**1711394**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.41	0.16	0.66	0	62.0	33	117				
1,3-Dichlorobenzene	0.41	0.16	0.66	0	61.1	30	115				
1,4-Dichlorobenzene	0.41	0.16	0.66	0	61.1	31	115				
2,4,5-Trichlorophenol	0.48	0.16	0.66	0	72.0	41	124				
2,4,6-Trichlorophenol	0.52	0.16	0.66	0	77.9	39	126				
2,4-Dichlorophenol	0.52	0.16	0.66	0	77.5	40	122				
2,4-Dimethyl phenol	0.46	0.16	0.66	0	69.0	30	127				
2,4-Dinitrophenol	0.77	0.83	1.7	0	46.4	50	130				JQY
2,4-Dinitrotoluene	0.52	0.16	0.66	0	78.8	48	126				
2,6-Dinitrotoluene	0.49	0.16	0.66	0	73.6	46	124				
2-Chloronaphthalene	0.42	0.16	0.66	0	63.0	41	114				
2-Chlorophenol	0.45	0.16	0.66	0	67.4	34	121				
2-Methylphenol (o-Cresol)	0.47	0.16	0.66	0	70.0	32	122				
2-Nitroaniline	0.50	0.32	0.66	0	74.7	44	127				
2-Nitrophenol	0.52	0.16	0.66	0	78.7	36	123				Y
3,3´-Dichlorobenzidine	0.48	1.0	0.66	0	72.0	22	121				J
3-Nitroaniline	0.50	0.32	0.66	0	75.3	33	119				
3/4-Methylphenol [m/p-Cresol]	0.85	0.32	1.3	0	64.1	34	119				
4,6-Dinitro-2-methylphenol	0.48	0.32	0.66	0	72.0	29	132				Y
4-Bromophenyl phenyl ether	0.44	0.20	0.66	0	65.7	46	124				
4-Chloro-3-methylphenol	0.53	0.16	0.66	0	79.1	45	122				
4-Chloroaniline [p-Chloroaniline]	0.46	0.16	0.66	0	69.8	17	106				
4-Chlorophenyl phenyl ether	0.49	0.16	0.66	0	74.1	45	121				
4-Nitroaniline	0.45	0.32	0.66	0	67.6	50	130				
4-Nitrophenol	0.96	0.83	1.7	0	57.9	30	132				
Benzoic acid	0.19	1.0	1.3	0	14.1	40	117				JQZ
Benzyl alcohol	0.44	0.66	0.66	0	66.8	29	122				J
Bis(2-chloroethoxy) methane	0.42	0.16	0.66	0	63.6	36	121				
Bis(2-chloroethyl) ether	0.38	0.16	0.66	0	57.6	31	120				
Bis(2-chloroisopropyl)ether	0.40	0.16	0.66	0	59.5	33	131				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40135**

Sample ID:	LCS-40135	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	LCSS	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1711394

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.52	0.16	0.66	0	78.6	51	133				
Butyl benzyl phthalate	0.51	0.16	0.66	0	76.2	48	132				
Carbazole	0.46	0.16	0.66	0	69.2	50	123				
Di-n-butyl phthalate	0.46	0.16	0.66	0	68.6	51	128				
Di-n-octyl phthalate	0.50	0.16	0.66	0	75.9	45	140				
Dibenzofuran	0.44	0.16	0.66	0	66.9	44	120				
Diethyl phthalate	0.48	0.16	0.66	0	72.3	50	124				
Dimethyl phthalate	0.46	0.16	0.66	0	68.8	48	124				
Hexachlorobenzene	0.43	0.16	0.66	0	65.1	45	122				
Hexachlorobutadiene	0.46	0.050	0.66	0	69.4	32	123				
Hexachloroethane	0.38	0.16	0.66	0	57.7	28	117				
Isophorone	0.41	0.16	0.66	0	61.0	30	122				
N-Nitroso-di-n-propylamine	0.40	0.16	0.66	0	60.9	50	130				
N-Nitrosodimethylamine	0.34	0.16	0.66	0	51.4	23	120				
N-Nitrosodiphenylamine	0.43	0.16	0.66	0	64.6	38	127				
Nitrobenzene	0.42	0.16	0.66	0	63.3	34	122				
Pentachlorophenol	0.35	0.16	0.66	0	51.9	25	133				Y
Phenol	0.46	0.16	0.66	0	68.7	34	121				
Surr: 2,4,6-Tribromophenol	650		830.6		78.8	39	132				
Surr: 2-Fluorobiphenyl	620		830.6		74.6	44	115				
Surr: 2-Fluorophenol	590		830.6		71.2	35	115				
Surr: Nitrobenzene-d5	610		830.6		73.7	37	122				
Surr: Phenol-d5	600		830.6		72.8	33	122				
Surr: Terphenyl-d14	690		830.6		83.6	54	127				

Sample ID:	1606293-005DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	H20-SS02-02MS1	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1711396

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.38	0.18	0.76	0	50.0	34	118				
1,2-Dichlorobenzene	0.36	0.18	0.76	0	47.4	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40135**

Sample ID:	**1606293-005DMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/13/2016**	RunNo:	**86688**	
Client ID:	**H20-SS02-02MS1**	Batch ID:	**40135**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/14/2016**	SeqNo:	**1711396**	

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.36	0.18	0.76	0	46.4	30	115				
1,4-Dichlorobenzene	0.35	0.18	0.76	0	45.9	31	115				
2,4,5-Trichlorophenol	0.45	0.18	0.76	0	58.4	41	124				
2,4,6-Trichlorophenol	0.46	0.18	0.76	0	60.1	39	126				
2,4-Dichlorophenol	0.45	0.18	0.76	0	58.9	40	122				
2,4-Dimethyl phenol	0.40	0.18	0.76	0	51.8	30	127				
2,4-Dinitrophenol	1.5	0.95	1.9	0	76.6	50	130				Y
2,4-Dinitrotoluene	0.46	0.18	0.76	0	59.7	48	126				
2,6-Dinitrotoluene	0.42	0.18	0.76	0	55.3	46	124				
2-Chloronaphthalene	0.36	0.18	0.76	0	46.8	41	114				
2-Chlorophenol	0.39	0.18	0.76	0	51.4	34	121				
2-Methylphenol (o-Cresol)	0.40	0.18	0.76	0	52.0	32	122				
2-Nitroaniline	0.43	0.37	0.76	0	56.0	44	127				
2-Nitrophenol	0.46	0.18	0.76	0	59.7	36	123				Y
3,3´-Dichlorobenzidine	0.76	1.1	0.76	0	0	22	121				QU
3-Nitroaniline	0.43	0.37	0.76	0	56.0	33	119				
3/4-Methylphenol [m/p-Cresol]	0.75	0.37	1.5	0	48.8	42	126				
4,6-Dinitro-2-methylphenol	0.59	0.37	0.76	0	77.1	29	132				Y
4-Bromophenyl phenyl ether	0.37	0.23	0.76	0	48.9	46	124				
4-Chloro-3-methylphenol	0.46	0.18	0.76	0	60.0	45	122				
4-Chloroaniline [p-Chloroaniline]	0.39	0.18	0.76	0	51.4	17	106				
4-Chlorophenyl phenyl ether	0.43	0.18	0.76	0	56.1	45	121				
4-Nitroaniline	0.39	0.37	0.76	0	50.7	50	130				
4-Nitrophenol	1.0	0.95	1.9	0	53.2	30	132				
Benzoic acid	0.95	1.1	1.5	0	62.4	40	117				JZ
Benzyl alcohol	0.37	0.76	0.76	0	48.6	29	122				J
Bis(2-chloroethoxy) methane	0.36	0.18	0.76	0	47.2	36	121				
Bis(2-chloroethyl) ether	0.33	0.18	0.76	0	42.7	31	120				
Bis(2-chloroisopropyl)ether	0.33	0.18	0.76	0	43.6	33	131				Z
Bis(2-ethylhexyl) phthalate	0.45	0.18	0.76	0	59.4	51	133				

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40135

Sample ID:	1606293-005DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	H20-SS02-02MS1	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1711396

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.44	0.18	0.76	0	57.5	48	132				
Carbazole	0.41	0.18	0.76	0	53.8	50	123				
Di-n-butyl phthalate	0.41	0.18	0.76	0	53.1	51	128				
Di-n-octyl phthalate	0.45	0.18	0.76	0	59.3	45	140				
Dibenzofuran	0.39	0.18	0.76	0	51.4	44	120				
Diethyl phthalate	0.41	0.18	0.76	0	53.5	50	124				
Dimethyl phthalate	0.39	0.18	0.76	0	51.5	48	124				
Hexachlorobenzene	0.38	0.18	0.76	0	49.1	45	122				
Hexachlorobutadiene	0.41	0.057	0.76	0	53.0	32	123				
Hexachloroethane	0.32	0.18	0.76	0	41.4	28	117				
Isophorone	0.35	0.18	0.76	0	45.5	30	122				
N-Nitroso-di-n-propylamine	0.35	0.18	0.76	0	46.1	50	130				Q
N-Nitrosodimethylamine	0.29	0.18	0.76	0	38.4	23	120				
N-Nitrosodiphenylamine	0.38	0.18	0.76	0	49.6	38	127				
Nitrobenzene	0.36	0.18	0.76	0	46.5	34	122				
Pentachlorophenol	0.63	0.18	0.76	0	81.8	25	133				Y
Phenol	0.40	0.18	0.76	0	52.1	34	121				
Surr: 2,4,6-Tribromophenol	610		956.1		63.6	39	132				
Surr: 2-Fluorobiphenyl	530		956.1		55.0	44	115				
Surr: 2-Fluorophenol	500		956.1		52.8	35	115				
Surr: Nitrobenzene-d5	520		956.1		54.2	37	122				
Surr: Phenol-d5	510		956.1		53.8	33	122				
Surr: Terphenyl-d14	580		956.1		61.1	54	127				

Sample ID:	1606293-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	H20-SS02-02SD1	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1711397

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.41	0.18	0.77	0	53.4	34	118	0.38	6.77	25	
1,2-Dichlorobenzene	0.39	0.18	0.77	0	50.4	33	117	0.36	6.43	25	
1,3-Dichlorobenzene	0.37	0.18	0.77	0	48.7	30	115	0.36	5.12	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40135

Sample ID:	1606293-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	H20-SS02-02SD1	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1711397

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.37	0.18	0.77	0	48.1	31	115	0.35	4.97	25	
2,4,5-Trichlorophenol	0.48	0.18	0.77	0	62.6	41	124	0.45	7.23	25	
2,4,6-Trichlorophenol	0.47	0.18	0.77	0	61.4	39	126	0.46	2.43	25	
2,4-Dichlorophenol	0.48	0.18	0.77	0	62.1	40	122	0.45	5.58	25	
2,4-Dimethyl phenol	0.42	0.18	0.77	0	54.5	30	127	0.40	5.37	25	
2,4-Dinitrophenol	1.6	0.96	1.9	0	82.2	50	130	1.5	7.32	25	Y
2,4-Dinitrotoluene	0.49	0.18	0.77	0	63.9	48	126	0.46	7.17	25	
2,6-Dinitrotoluene	0.44	0.18	0.77	0	57.0	46	124	0.42	3.32	25	
2-Chloronaphthalene	0.37	0.18	0.77	0	48.2	41	114	0.36	3.24	25	
2-Chlorophenol	0.41	0.18	0.77	0	54.0	34	121	0.39	5.22	25	
2-Methylphenol (o-Cresol)	0.42	0.18	0.77	0	55.4	32	122	0.40	6.62	25	
2-Nitroaniline	0.44	0.37	0.77	0	57.7	44	127	0.43	3.28	25	
2-Nitrophenol	0.49	0.18	0.77	0	63.7	36	123	0.46	6.85	25	Y
3,3´-Dichlorobenzidine	0.77	1.2	0.77	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.46	0.37	0.77	0	59.3	33	119	0.43	6.01	25	
3/4-Methylphenol [m/p-Cresol]	0.79	0.37	1.5	0	51.3	42	126	0.75	5.19	25	
4,6-Dinitro-2-methylphenol	0.63	0.37	0.77	0	82.0	29	132	0.59	6.45	25	Y
4-Bromophenyl phenyl ether	0.40	0.23	0.77	0	52.5	46	124	0.37	7.29	25	
4-Chloro-3-methylphenol	0.48	0.18	0.77	0	62.6	45	122	0.46	4.53	25	
4-Chloroaniline [p-Chloroaniline]	0.41	0.18	0.77	0	53.5	17	106	0.39	4.39	25	
4-Chlorophenyl phenyl ether	0.44	0.18	0.77	0	57.2	45	121	0.43	2.23	25	
4-Nitroaniline	0.43	0.37	0.77	0	55.5	50	130	0.39	9.33	25	
4-Nitrophenol	1.1	0.96	1.9	0	55.9	30	132	1.0	5.13	25	
Benzoic acid	1.9	1.2	1.5	0	123	40	117	0.95	66.0	25	RQZ
Benzyl alcohol	0.39	0.76	0.77	0	51.4	29	122	0.37	5.89	25	J
Bis(2-chloroethoxy) methane	0.37	0.18	0.77	0	48.6	36	121	0.36	3.11	25	
Bis(2-chloroethyl) ether	0.35	0.18	0.77	0	45.9	31	120	0.33	7.51	25	
Bis(2-chloroisopropyl)ether	0.35	0.18	0.77	0	46.0	33	131	0.33	5.76	25	Z
Bis(2-ethylhexyl) phthalate	0.48	0.18	0.77	0	63.0	51	133	0.45	6.18	25	
Butyl benzyl phthalate	0.47	0.18	0.77	0	61.5	48	132	0.44	6.93	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40135

Sample ID:	1606293-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	H20-SS02-02SD1	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1711397

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.43	0.18	0.77	0	56.4	50	123	0.41	5.01	25	
Di-n-butyl phthalate	0.43	0.18	0.77	0	56.6	51	128	0.41	6.67	25	
Di-n-octyl phthalate	0.48	0.18	0.77	0	62.5	45	140	0.45	5.46	25	
Dibenzofuran	0.41	0.18	0.77	0	53.0	44	120	0.39	3.26	25	
Diethyl phthalate	0.43	0.18	0.77	0	55.4	50	124	0.41	3.87	25	
Dimethyl phthalate	0.41	0.18	0.77	0	53.5	48	124	0.39	4.10	25	
Hexachlorobenzene	0.40	0.18	0.77	0	51.8	45	122	0.38	5.54	25	
Hexachlorobutadiene	0.42	0.058	0.77	0	54.6	32	123	0.41	3.17	25	
Hexachloroethane	0.34	0.18	0.77	0	43.8	28	117	0.32	6.04	25	
Isophorone	0.37	0.18	0.77	0	47.9	30	122	0.35	5.43	25	
N-Nitroso-di-n-propylamine	0.37	0.18	0.77	0	48.7	50	130	0.35	5.88	25	Q
N-Nitrosodimethylamine	0.31	0.18	0.77	0	40.2	23	120	0.29	4.74	25	
N-Nitrosodiphenylamine	0.39	0.18	0.77	0	51.3	38	127	0.38	3.66	25	
Nitrobenzene	0.38	0.18	0.77	0	49.4	34	122	0.36	6.44	25	
Pentachlorophenol	0.68	0.18	0.77	0	88.9	25	133	0.63	8.61	25	Y
Phenol	0.42	0.18	0.77	0	55.0	34	121	0.40	5.70	25	
Surr: 2,4,6-Tribromophenol	630		958.9		66.2	39	132		0	25	
Surr: 2-Fluorobiphenyl	530		958.9		55.6	44	115		0	25	
Surr: 2-Fluorophenol	530		958.9		55.7	35	115		0	25	
Surr: Nitrobenzene-d5	540		958.9		56.2	37	122		0	25	
Surr: Phenol-d5	540		958.9		56.5	33	122		0	25	
Surr: Terphenyl-d14	620		958.9		64.3	54	127		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40136**

Sample ID:	1606353-001BMS	Samp Type:	MS	Test Code:	SW_8270S	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	ZZZZZZ	Batch ID:	40136	TestNo:	SW8270C	SW3550C		Analysis Date:	6/14/2016	SeqNo:	1711398

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	1,200		1,425		87.1	39	132				
Surr: 2-Fluorobiphenyl	940		1,425		65.9	44	115				
Surr: 2-Fluorophenol	870		1,425		61.3	35	115				
Surr: Nitrobenzene-d5	900		1,425		63.3	37	122				
Surr: Phenol-d5	940		1,425		65.9	33	122				
Surr: Terphenyl-d14	1,200		1,425		80.7	54	127				

Sample ID:	1606353-001BMSD	Samp Type:	MSD	Test Code:	SW_8270S	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	ZZZZZZ	Batch ID:	40136	TestNo:	SW8270C	SW3550C		Analysis Date:	6/14/2016	SeqNo:	1711399

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	1,200		1,408		86.9	39	132		0	25	
Surr: 2-Fluorobiphenyl	950		1,408		67.4	44	115		0	25	
Surr: 2-Fluorophenol	860		1,408		61.4	35	115		0	25	
Surr: Nitrobenzene-d5	940		1,408		66.7	37	122		0	25	
Surr: Phenol-d5	920		1,408		65.7	33	122		0	25	
Surr: Terphenyl-d14	1,200		1,408		84.2	54	127		0	25	

Sample ID:	MB-40136	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	PBS	Batch ID:	40136	TestNo:	SW8270C	SW3550C		Analysis Date:	6/14/2016	SeqNo:	1681849

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	660		832.8		78.7	39	132				
Surr: 2-Fluorobiphenyl	620		832.8		74.5	44	115				
Surr: 2-Fluorophenol	590		832.8		70.8	35	115				
Surr: Nitrobenzene-d5	630		832.8		75.6	37	122				
Surr: Phenol-d5	600		832.8		72.0	33	122				
Surr: Terphenyl-d14	680		832.8		81.6	54	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40136**

Sample ID:	LCS-40136	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	LCSS	Batch ID:	40136	TestNo:	SW8270C	SW3550C		Analysis Date:	6/14/2016	SeqNo:	1711395

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	750		833.1		90.4	39	132				
Surr: 2-Fluorobiphenyl	640		833.1		77.3	44	115				
Surr: 2-Fluorophenol	620		833.1		74.0	35	115				
Surr: Nitrobenzene-d5	670		833.1		80.2	37	122				
Surr: Phenol-d5	640		833.1		76.9	33	122				
Surr: Terphenyl-d14	730		833.1		87.1	54	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40137

Sample ID:	MB-40137	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	PBS	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682954

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	2.0	5.0									U
Antimony	0.50	1.0									U
Arsenic	1.0	2.0									U
Barium	5.0	10									U
Beryllium	0.050	0.25									U
Cadmium	0.050	0.25									U
Calcium	10	50									U
Cobalt	0.25	1.0									U
Copper	1.0	5.0									U
Iron	5.0	15									U
Lead	1.0	5.0									U
Magnesium	5.0	50									U
Nickel	1.0	5.0									U
Potassium	10	20									U
Selenium	1.5	2.0									U
Silver	0.25	1.0									U
Sodium	5.0	50									U
Vanadium	1.0	2.5									U
Zinc	0.50	5.0									U

Sample ID:	LCS-40137	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	LCSS	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	26	5.0	25	0	104	74	119				
Antimony	24	1.0	25	0	96.0	79	114				
Arsenic	23	2.0	25	0	90.4	82	111				
Barium	24	10	25	0	94.4	83	113				
Beryllium	24	0.25	25	0	94.8	83	113				
Cadmium	24	0.25	25	0	96.4	82	113				
Calcium	240	50	250	0	97.4	81	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40137

Sample ID:	LCS-40137	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	LCSS	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	24	0.50	25	0	96.8	85	113				
Cobalt	25	1.0	25	0	98.3	85	112				
Copper	25	5.0	25	0	98.1	81	117				
Iron	240	15	250	0	97.6	81	118				
Lead	24	5.0	25	0	94.3	81	112				
Magnesium	230	50	250	0	93.3	78	115				
Manganese	26	1.0	25	0	103	84	114				
Nickel	28	5.0	25	0	110	83	113				
Potassium	230	20	250	0	90.7	81	116				
Selenium	25	2.0	25	0	98.9	78	111				
Silver	24	1.0	25	0	95.0	82	112				
Sodium	240	50	250	0	95.0	83	118				
Vanadium	24	2.5	25	0	95.4	82	114				
Zinc	25	5.0	25	0	101	82	113				

Sample ID:	1606293-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	H20-SS02-02MS1	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682958

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9,200	3.8	19	8,300	4,750	74	119				Q
Antimony	22	0.76	19	3.2	99.3	79	114				
Arsenic	20	1.5	19	2.0	94.7	82	111				
Barium	60	7.6	19	40	106	83	113				
Beryllium	19	0.19	19	0.38	96.7	83	113				
Cadmium	19	0.19	19	0	101	82	113				
Calcium	1,400	38	190	1,000	193	81	116				Q
Cobalt	23	0.76	19	3.3	101	85	112				
Copper	96	3.8	19	67	152	81	117				Q
Iron	22,000	11	190	23,000	-253	81	118				JQ
Lead	20	3.8	19	3.0	91.5	81	112				
Magnesium	2,600	38	190	2,300	161	78	115				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40137

Sample ID:	1606293-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	H20-SS02-02MS1	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682958

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nickel	45	3.8	19	16	153	83	113				Q
Potassium	2,100	15	190	1,600	269	81	116				JQ
Selenium	4.5	1.5	19	0	23.8	78	111				Q
Silver	19	0.76	19	0	101	82	112				
Sodium	310	38	190	110	107	83	118				
Vanadium	40	1.9	19	18	119	82	114				JQ
Zinc	46	3.8	19	26	104	82	113				

Sample ID:	1606293-005FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86750
Client ID:	H20-SS02-02SD1	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/16/2016	SeqNo:	1682959

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	10,000	3.7	19	8,300	9,910	74	119	9,200	9.88	20	Q
Antimony	22	0.75	19	3.2	99.0	79	114	22	1.28	20	
Arsenic	19	1.5	19	2.0	92.8	82	111	20	2.99	20	
Barium	67	7.5	19	40	145	83	113	60	11.1	20	Q
Beryllium	20	0.19	19	0.38	104	83	113	19	5.49	20	
Cadmium	19	0.19	19	0	103	82	113	19	0.504	20	
Calcium	1,400	37	190	1,000	210	81	116	1,400	1.91	20	Q
Cobalt	22	0.75	19	3.3	102	85	112	23	0.817	20	
Copper	91	3.7	19	67	128	81	117	96	5.18	20	Q
Iron	23,000	11	190	23,000	60.2	81	118	22,000	2.63	20	JQ
Lead	20	3.7	19	3.0	89.7	81	112	20	2.82	20	
Magnesium	2,900	37	190	2,300	331	78	115	2,600	11.3	20	JQ
Nickel	40	3.7	19	16	129	83	113	45	11.9	20	Q
Potassium	2,100	15	190	1,600	283	81	116	2,100	0.900	20	JQ
Selenium	5.8	1.5	19	0	31.1	78	111	4.5	25.4	20	RQ
Silver	19	0.75	19	0	102	82	112	19	0.382	20	
Sodium	320	37	190	110	114	83	118	310	2.96	20	
Vanadium	40	1.9	19	18	118	82	114	40	1.13	20	JQ
Zinc	46	3.7	19	26	104	82	113	46	0.455	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40137

Sample ID:	MB-40137	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86852	
Client ID:	PBS	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/22/2016	SeqNo:	1685249	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	0.25	0.50									JG	
Manganese	0.25	1.0									U	

Sample ID:	LCS-40137	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/13/2016	RunNo:	86852	
Client ID:	LCSS	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/22/2016	SeqNo:	1685250	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	26	0.50	25	0	103	85	113				G	
Manganese	26	1.0	25	0	106	84	114					

Sample ID:	1606293-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86852	
Client ID:	H20-SS02-02MS1	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/22/2016	SeqNo:	1685284	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	45	0.38	19	21	130	85	113				QG	
Manganese	190	0.76	19	180	48.2	84	114				JQ	

Sample ID:	1606293-005FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/13/2016	RunNo:	86852	
Client ID:	H20-SS02-02SD1	Batch ID:	40137	TestNo:	SW6010B	SW3050B		Analysis Date:	6/22/2016	SeqNo:	1685285	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	42	0.37	19	21	114	85	113	45	7.88	20	QG	
Manganese	210	0.75	19	180	156	84	114	190	9.84	20	JQ	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40143

Sample ID:	1606286-001BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	%Rec	Prep Date:	6/14/2016	RunNo:	86760
Client ID:	ZZZZZZ	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	9.1		9.769		93.0	44	130				
Surr: Decachlorobiphenyl	9.1		9.769		92.9	40	135				

Sample ID:	1606286-001BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	%Rec	Prep Date:	6/14/2016	RunNo:	86760
Client ID:	ZZZZZZ	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683225

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	6.9		9.801		69.9	44	130		0	25	
Surr: Decachlorobiphenyl	8.0		9.801		81.8	40	135		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40144**

Sample ID:	1606293-005EMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/14/2016	RunNo:	86760
Client ID:	H20-SS02-02MS1	Batch ID:	40144	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683235

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.12	0.039	0.19	0	62.8	46	129				
Aroclor 1260	0.13	0.039	0.19	0	66.7	45	134				
Surr: Tetrachloro-m-xylene	4.1		9.748		42.0	44	130				Q
Surr: Decachlorobiphenyl	6.6		9.748		67.4	40	135				

Sample ID:	1606293-005EMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/14/2016	RunNo:	86760
Client ID:	H20-SS02-02SD1	Batch ID:	40144	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683236

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.12	0.039	0.20	0	62.8	46	129	0.12	0.325	25	
Aroclor 1260	0.12	0.039	0.20	0	60.1	45	134	0.13	10.0	25	
Surr: Tetrachloro-m-xylene	5.6		9.777		56.8	44	130		0	25	
Surr: Decachlorobiphenyl	5.6		9.777		56.8	40	135		0	25	

Sample ID:	LCS-40144	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86760
Client ID:	LCSS	Batch ID:	40144	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683255

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.18	0.033	0.17	0	109	46	129				
Aroclor 1260	0.19	0.033	0.17	0	115	45	134				
Surr: Tetrachloro-m-xylene	8.2		8.325		98.0	44	130				
Surr: Decachlorobiphenyl	8.4		8.325		101	40	135				

Sample ID:	MB-40144	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86760
Client ID:	PBS	Batch ID:	40144	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683256

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.0067	0.033									U
Aroclor 1221	0.0067	0.033									U
Aroclor 1232	0.0067	0.033									U
Aroclor 1242	0.0067	0.033									U
Aroclor 1248	0.0067	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40144**

Sample ID:	**MB-40144**	Samp Type:	**MBLK**	Test Code:	**SW_8082S**	Units:	**mg/Kg**	Prep Date:	**6/14/2016**	RunNo:	**86760**
Client ID:	**PBS**	Batch ID:	**40144**	TestNo:	**SW8082**	**SW3546**		Analysis Date:	**6/16/2016**	SeqNo:	**1683256**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.0067	0.033									U
Aroclor 1260	0.0067	0.033									U
Aroclor 1262	0.0067	0.033									U
Aroclor 1268	0.0067	0.033									U
Surr: Tetrachloro-m-xylene	5.1		8.308		60.8	44	130				
Surr: Decachlorobiphenyl	5.4		8.308		65.3	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40155**

Sample ID:	MB-40155	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86796
Client ID:	PBS	Batch ID:	40155	TestNo:	SW8270C	SW3550C		Analysis Date:	6/20/2016	SeqNo:	1684076

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	13		16.60		78.2	46	115				
Surr: Nitrobenzene-d5	14		16.60		85.1	44	125				
Surr: Terphenyl-d14	16		16.60		94.2	58	133				

Sample ID:	LCS-40155	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86796
Client ID:	LCSS	Batch ID:	40155	TestNo:	SW8270C	SW3550C		Analysis Date:	6/20/2016	SeqNo:	1684077

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.011	0.00066	0.013	0	79.6	43	111				
2-Methylnaphthalene	0.012	0.00066	0.013	0	93.2	39	114				
Acenaphthene	0.011	0.00066	0.013	0	86.0	44	111				
Acenaphthylene	0.011	0.00066	0.013	0	85.0	39	116				
Anthracene	0.011	0.00066	0.013	0	86.2	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40155

Sample ID:	LCS-40155	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86796
Client ID:	LCSS	Batch ID:	40155	TestNo:	SW8270C	SW3550C		Analysis Date:	6/20/2016	SeqNo:	1684077

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.012	0.00066	0.013	0	93.6	54	122				
Benzo(a)pyrene	0.011	0.00066	0.013	0	86.9	50	125				
Benzo(b)fluoranthene	0.013	0.00066	0.013	0	101	53	128				
Benzo(g,h,i)perylene	0.012	0.00066	0.013	0	94.2	49	127				
Benzo(k)fluoranthene	0.011	0.00066	0.013	0	83.6	56	123				
Chrysene	0.012	0.00066	0.013	0	88.8	57	118				
Dibenzo(a,h)anthracene	0.015	0.00066	0.013	0	115	50	129				
Fluoranthene	0.013	0.00066	0.013	0	95.2	55	119				
Fluorene	0.012	0.00066	0.013	0	87.6	47	114				
Indeno(1,2,3-cd)pyrene	0.013	0.00066	0.013	0	102	49	130				
Naphthalene	0.012	0.00066	0.013	0	88.6	38	111				
Phenanthrene	0.011	0.00066	0.013	0	82.3	49	113				
Pyrene	0.011	0.00066	0.013	0	80.4	55	117				
Surr: 2-Fluorobiphenyl	13		16.54		80.4	46	115				
Surr: Nitrobenzene-d5	13		16.54		75.9	44	125				
Surr: Terphenyl-d14	15		16.54		92.7	58	133				

Sample ID:	1606293-005DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/14/2016	RunNo:	86796
Client ID:	H20-SS02-02MS1	Batch ID:	40155	TestNo:	SW8270C	SW3550C		Analysis Date:	6/20/2016	SeqNo:	1684082

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00078	0.015	0	82.0	43	111				
2-Methylnaphthalene	0.015	0.00078	0.015	0	94.1	39	114				
Acenaphthene	0.018	0.00078	0.015	0.0033	97.1	44	111				
Acenaphthylene	0.015	0.00078	0.015	0.0022	84.9	39	116				
Anthracene	0.018	0.00078	0.015	0.0029	97.6	50	114				
Benzo(a)anthracene	0.026	0.00078	0.015	0.017	60.7	54	122				
Benzo(a)pyrene	0.023	0.00078	0.015	0.011	77.3	50	125				
Benzo(b)fluoranthene	0.038	0.00078	0.015	0.021	112	53	128				
Benzo(g,h,i)perylene	0.016	0.00078	0.015	0.0053	71.3	49	127				
Benzo(k)fluoranthene	0.017	0.00078	0.015	0.0078	61.2	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40155**

Sample ID: **1606293-005DMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/14/2016** RunNo: **86796**

Client ID: **H20-SS02-02MS1** Batch ID: **40155** TestNo: **SW8270C** **SW3550C** Analysis Date: **6/20/2016** SeqNo: **1684082**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.030	0.00078	0.015	0.019	70.5	57	118				
Dibenzo(a,h)anthracene	0.017	0.00078	0.015	0.0019	96.5	50	129				
Fluoranthene	0.051	0.00078	0.015	0.032	122	55	119				JQ
Fluorene	0.017	0.00078	0.015	0.0024	97.0	47	114				
Indeno(1,2,3-cd)pyrene	0.018	0.00078	0.015	0.0057	82.3	49	130				
Naphthalene	0.014	0.00078	0.015	0.00097	87.3	38	111				
Phenanthrene	0.025	0.00078	0.015	0.0077	111	49	113				
Pyrene	0.041	0.00078	0.015	0.027	90.4	55	117				J
Surr: 2-Fluorobiphenyl	15		19.38		76.1	46	115				
Surr: Nitrobenzene-d5	16		19.38		84.0	44	125				
Surr: Terphenyl-d14	18		19.38		93.1	58	133				

Sample ID: **1606293-005DMSD** Samp Type: **MSD** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/14/2016** RunNo: **86796**

Client ID: **H20-SS02-02SD1** Batch ID: **40155** TestNo: **SW8270C** **SW3550C** Analysis Date: **6/20/2016** SeqNo: **1684083**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00079	0.016	0	81.4	43	111	0.013	0.289	25	
2-Methylnaphthalene	0.015	0.00079	0.016	0	93.4	39	114	0.015	0.250	25	
Acenaphthene	0.017	0.00079	0.016	0.0033	89.6	44	111	0.018	5.69	25	
Acenaphthylene	0.014	0.00079	0.016	0.0022	78.3	39	116	0.015	5.97	25	
Anthracene	0.017	0.00079	0.016	0.0029	87.6	50	114	0.018	8.14	25	
Benzo(a)anthracene	0.023	0.00079	0.016	0.017	39.6	54	122	0.026	12.9	25	Q
Benzo(a)pyrene	0.019	0.00079	0.016	0.011	54.5	50	125	0.023	16.5	25	
Benzo(b)fluoranthene	0.031	0.00079	0.016	0.021	66.6	53	128	0.038	19.9	25	
Benzo(g,h,i)perylene	0.014	0.00079	0.016	0.0053	56.0	49	127	0.016	15.1	25	
Benzo(k)fluoranthene	0.014	0.00079	0.016	0.0078	38.0	56	123	0.017	22.8	25	Q
Chrysene	0.021	0.00079	0.016	0.019	8.61	57	118	0.030	37.5	25	RQ
Dibenzo(a,h)anthracene	0.015	0.00079	0.016	0.0019	84.6	50	129	0.017	10.8	25	
Fluoranthene	0.038	0.00079	0.016	0.032	35.0	55	119	0.051	30.2	25	RQ
Fluorene	0.017	0.00079	0.016	0.0024	93.0	47	114	0.017	2.81	25	
Indeno(1,2,3-cd)pyrene	0.016	0.00079	0.016	0.0057	63.8	49	130	0.018	16.2	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40155**

Sample ID:	**1606293-005DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/14/2016**	RunNo:	**86796**
Client ID:	**H20-SS02-02SD1**	Batch ID:	**40155**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/20/2016**	SeqNo:	**1684083**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.014	0.00079	0.016	0.00097	82.7	38	111	0.014	4.08	25	
Phenanthrene	0.027	0.00079	0.016	0.0077	123	49	113	0.025	8.11	25	Q
Pyrene	0.030	0.00079	0.016	0.027	19.8	55	117	0.041	30.6	25	RQ
Surr: 2-Fluorobiphenyl	15		19.58		74.3	46	115		0	25	
Surr: Nitrobenzene-d5	16		19.58		80.8	44	125		0	25	
Surr: Terphenyl-d14	18		19.58		89.7	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40157**

Sample ID:	MB-40157	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	PBS	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695821

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	2.0	5.0									U
Antimony	0.50	1.0									U
Arsenic	1.0	2.0									U
Barium	5.0	10									U
Beryllium	0.050	0.25									U
Cadmium	0.050	0.25									U
Calcium	10	50									U
Chromium	0.40	0.50									U
Cobalt	0.25	1.0									U
Copper	1.0	5.0									U
Iron	5.0	15									U
Lead	1.0	5.0									U
Magnesium	5.0	50									U
Manganese	0.19	1.0									J
Nickel	1.0	5.0									U
Potassium	10	20									U
Selenium	1.5	2.0									U
Silver	0.25	1.0									U
Sodium	5.0	50									U
Vanadium	1.0	2.5									U
Zinc	0.50	5.0									U

Sample ID:	LCS-40157	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	LCSS	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695822

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	27	5.0	25	0	107	74	119				
Antimony	25	1.0	25	0	98.8	79	114				
Arsenic	23	2.0	25	0	92.6	82	111				
Barium	24	10	25	0	94.2	83	113				
Beryllium	24	0.25	25	0	95.6	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40157

Sample ID:	LCS-40157	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	LCSS	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695822

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	92.9	82	113				
Calcium	230	50	250	0	91.1	81	116				
Chromium	25	0.50	25	0	99.1	85	113				
Cobalt	24	1.0	25	0	97.6	85	112				
Copper	26	5.0	25	0	104	81	117				
Iron	230	15	250	0	91.3	81	118				
Lead	24	5.0	25	0	97.5	81	112				
Magnesium	230	50	250	0	91.3	78	115				
Manganese	26	1.0	25	0	103	84	114				
Nickel	25	5.0	25	0	98.4	83	113				
Potassium	240	20	250	0	95.3	81	116				
Selenium	25	2.0	25	0	99.5	78	111				
Silver	23	1.0	25	0	93.5	82	112				
Sodium	230	50	250	0	93.6	83	118				
Vanadium	24	2.5	25	0	95.9	82	114				
Zinc	24	5.0	25	0	95.6	82	113				

Sample ID:	1606389-005BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	ZZZZZZ	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695824

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9,000	3.7	18	9,000	82.5	74	119				
Antimony	19	0.73	18	2.3	89.9	79	114				
Arsenic	17	1.5	18	1.7	85.1	82	111				
Barium	39	7.3	18	25	75.3	83	113				Q
Beryllium	17	0.18	18	0.023	90.8	83	113				
Cadmium	17	0.18	18	0	90.1	82	113				
Calcium	850	37	180	530	173	81	116				Q
Chromium	30	0.37	18	15	84.2	85	113				Q
Cobalt	18	0.73	18	2.3	85.9	85	112				
Copper	38	3.7	18	21	92.1	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40157

Sample ID: **1606389-005BMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/15/2016** RunNo: **87363**

Client ID: **ZZZZZZ** Batch ID: **40157** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/13/2016** SeqNo: **1695824**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	5,700	11	180	5,900	-112	81	118				JQ
Lead	19	3.7	18	3.3	85.6	81	112				
Magnesium	1,900	37	180	1,700	61.4	78	115				JQ
Manganese	110	0.73	18	100	52.5	84	114				Q
Nickel	23	3.7	18	6.8	90.5	83	113				
Potassium	1,100	15	180	960	92.3	81	116				
Selenium	15	1.5	18	0	84.2	78	111				
Silver	16	0.73	18	0	89.8	82	112				
Sodium	250	37	180	67	101	83	118				
Vanadium	33	1.8	18	19	75.9	82	114				Q
Zinc	30	3.7	18	16	75.8	82	113				Q

Sample ID: **1606389-005BMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/15/2016** RunNo: **87363**

Client ID: **ZZZZZZ** Batch ID: **40157** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/13/2016** SeqNo: **1695825**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9,000	3.7	18	9,000	26.9	74	119	9,000	0.113	20	Q
Antimony	19	0.74	18	2.3	91.8	79	114	19	2.42	20	
Arsenic	18	1.5	18	1.7	86.5	82	111	17	2.01	20	
Barium	40	7.4	18	25	79.4	83	113	39	2.15	20	Q
Beryllium	17	0.18	18	0.023	91.0	83	113	17	0.848	20	
Cadmium	17	0.18	18	0	90.3	82	113	17	0.905	20	
Calcium	750	37	180	530	118	81	116	850	12.4	20	Q
Chromium	31	0.37	18	15	88.7	85	113	30	3.08	20	
Cobalt	19	0.74	18	2.3	87.5	85	112	18	2.23	20	
Copper	38	3.7	18	21	93.0	81	117	38	0.717	20	
Iron	5,600	11	180	5,900	-202	81	118	5,700	2.99	20	JQ
Lead	20	3.7	18	3.3	89.0	81	112	19	3.81	20	
Magnesium	1,800	37	180	1,700	38.8	78	115	1,900	2.22	20	Q
Manganese	110	0.74	18	100	47.4	84	114	110	0.791	20	Q
Nickel	24	3.7	18	6.8	92.7	83	113	23	2.15	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40157

Sample ID:	1606389-005BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	ZZZZZZ	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695825

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,100	15	180	960	94.1	81	116	1,100	0.390	20	
Selenium	16	1.5	18	0	89.2	78	111	15	6.45	20	
Silver	17	0.74	18	0	90.8	82	112	16	1.82	20	
Sodium	250	37	180	67	96.4	83	118	250	2.77	20	
Vanadium	33	1.8	18	19	76.2	82	114	33	0.457	20	Q
Zinc	30	3.7	18	16	76.8	82	113	30	0.884	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40167

Sample ID:	LCS-40167	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87151	
Client ID:	LCSS	Batch ID:	40167	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691644	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	10	0.20	10	0	102	83	118				G	

Sample ID:	MB-40167	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87151	
Client ID:	PBS	Batch ID:	40167	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691645	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	0.050	0.20									UG	

Sample ID:	1606293-005FMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87151	
Client ID:	H20-SS02-02MS1	Batch ID:	40167	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691768	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.4	0.15	7.6	0.14	95.8	83	118				G	

Sample ID:	1606293-005FMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87151	
Client ID:	H20-SS02-02SD1	Batch ID:	40167	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691769	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.6	0.15	7.6	0.14	98.5	83	118	7.4	2.78	20	G	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40172**

Sample ID:	MB-40172	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87532
Client ID:	PBS	Batch ID:	40172	TestNo:	SW8270C	SW3550C		Analysis Date:	6/26/2016	SeqNo:	1712981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									UY
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	16		16.58		94.0	46	115				
Surr: Nitrobenzene-d5	17		16.58		102	44	125				
Surr: Terphenyl-d14	19		16.58		113	58	133				

Sample ID:	LCS-40172	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87532
Client ID:	LCSS	Batch ID:	40172	TestNo:	SW8270C	SW3550C		Analysis Date:	6/26/2016	SeqNo:	1712982

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.012	0.00066	0.013	0	93.0	43	111				
2-Methylnaphthalene	0.014	0.00066	0.013	0	103	39	114				
Acenaphthene	0.013	0.00066	0.013	0	101	44	111				
Acenaphthylene	0.014	0.00066	0.013	0	104	39	116				
Anthracene	0.013	0.00066	0.013	0	100	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40172**

Sample ID:	LCS-40172	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87532
Client ID:	LCSS	Batch ID:	40172	TestNo:	SW8270C	SW3550C		Analysis Date:	6/26/2016	SeqNo:	1712982

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.016	0.00066	0.013	0	119	54	122				
Benzo(a)pyrene	0.013	0.00066	0.013	0	96.0	50	125				
Benzo(b)fluoranthene	0.015	0.00066	0.013	0	113	53	128				
Benzo(g,h,i)perylene	0.017	0.00066	0.013	0	130	49	127				QY
Benzo(k)fluoranthene	0.013	0.00066	0.013	0	102	56	123				
Chrysene	0.013	0.00066	0.013	0	99.0	57	118				
Dibenzo(a,h)anthracene	0.015	0.00066	0.013	0	112	50	129				
Fluoranthene	0.013	0.00066	0.013	0	100	55	119				
Fluorene	0.014	0.00066	0.013	0	106	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00066	0.013	0	109	49	130				
Naphthalene	0.013	0.00066	0.013	0	98.8	38	111				
Phenanthrene	0.015	0.00066	0.013	0	112	49	113				
Pyrene	0.014	0.00066	0.013	0	109	55	117				
Surr: 2-Fluorobiphenyl	16		16.39		99.2	46	115				
Surr: Nitrobenzene-d5	15		16.39		92.5	44	125				
Surr: Terphenyl-d14	19		16.39		118	58	133				

Sample ID:	1606389-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87532
Client ID:	ZZZZZZ	Batch ID:	40172	TestNo:	SW8270C	SW3550C		Analysis Date:	6/26/2016	SeqNo:	1712988

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00075	0.015	0	88.5	43	111				
2-Methylnaphthalene	0.015	0.00075	0.015	0	98.7	39	114				
Acenaphthene	0.014	0.00075	0.015	0	96.9	44	111				
Acenaphthylene	0.015	0.00075	0.015	0	100	39	116				
Anthracene	0.015	0.00075	0.015	0	97.9	50	114				
Benzo(a)anthracene	0.018	0.00075	0.015	0	120	54	122				
Benzo(a)pyrene	0.014	0.00075	0.015	0	94.4	50	125				
Benzo(b)fluoranthene	0.016	0.00075	0.015	0	104	53	128				
Benzo(g,h,i)perylene	0.017	0.00075	0.015	0	117	49	127				Y
Benzo(k)fluoranthene	0.015	0.00075	0.015	0	98.6	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40172**

Sample ID:	1606389-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87532
Client ID:	ZZZZZZ	Batch ID:	40172	TestNo:	SW8270C	SW3550C		Analysis Date:	6/26/2016	SeqNo:	1712988

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.013	0.00075	0.015	0	88.5	57	118				
Dibenzo(a,h)anthracene	0.015	0.00075	0.015	0	102	50	129				
Fluoranthene	0.014	0.00075	0.015	0	93.1	55	119				
Fluorene	0.015	0.00075	0.015	0	104	47	114				
Indeno(1,2,3-cd)pyrene	0.015	0.00075	0.015	0	97.8	49	130				
Naphthalene	0.014	0.00075	0.015	0	94.6	38	111				
Phenanthrene	0.016	0.00075	0.015	0	107	49	113				
Pyrene	0.016	0.00075	0.015	0	104	55	117				
Surr: 2-Fluorobiphenyl	17		18.65		91.0	46	115				
Surr: Nitrobenzene-d5	19		18.65		102	44	125				
Surr: Terphenyl-d14	21		18.65		112	58	133				

Sample ID:	1606389-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87532
Client ID:	ZZZZZZ	Batch ID:	40172	TestNo:	SW8270C	SW3550C		Analysis Date:	6/26/2016	SeqNo:	1712989

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00074	0.015	0	88.2	43	111	0.013	1.20	25	
2-Methylnaphthalene	0.014	0.00074	0.015	0	97.5	39	114	0.015	2.37	25	
Acenaphthene	0.014	0.00074	0.015	0	97.5	44	111	0.014	0.383	25	
Acenaphthylene	0.014	0.00074	0.015	0	97.7	39	116	0.015	3.65	25	
Anthracene	0.014	0.00074	0.015	0	98.1	50	114	0.015	1.04	25	
Benzo(a)anthracene	0.017	0.00074	0.015	0	118	54	122	0.018	2.61	25	
Benzo(a)pyrene	0.014	0.00074	0.015	0	92.6	50	125	0.014	2.91	25	
Benzo(b)fluoranthene	0.015	0.00074	0.015	0	103	53	128	0.016	2.40	25	
Benzo(g,h,i)perylene	0.017	0.00074	0.015	0	115	49	127	0.014	22.6	25	Y
Benzo(k)fluoranthene	0.010	0.00074	0.015	0	67.9	56	123	0.014	33.1	25	R
Chrysene	0.013	0.00074	0.015	0	87.2	57	118	0.013	2.51	25	
Dibenzo(a,h)anthracene	0.015	0.00074	0.015	0	101	50	129	0.015	2.66	25	
Fluoranthene	0.014	0.00074	0.015	0	92.5	55	119	0.014	1.42	25	
Fluorene	0.015	0.00074	0.015	0	103	47	114	0.015	1.16	25	
Indeno(1,2,3-cd)pyrene	0.014	0.00074	0.015	0	96.8	49	130	0.015	2.15	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40172**

Sample ID:	**1606389-005AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/15/2016**	RunNo:	**87532**
Client ID:	**ZZZZZZ**	Batch ID:	**40172**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/26/2016**	SeqNo:	**1712989**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.014	0.00074	0.015	0	93.8	38	111	0.014	1.68	25	
Phenanthrene	0.016	0.00074	0.015	0	108	49	113	0.016	0.273	25	
Pyrene	0.015	0.00074	0.015	0	104	55	117	0.016	0.629	25	
Surr: 2-Fluorobiphenyl	17		18.48		89.6	46	115		0	25	
Surr: Nitrobenzene-d5	19		18.48		102	44	125		0	25	
Surr: Terphenyl-d14	20		18.48		107	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	MB-40178	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	PBS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701925

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	13		16.50		80.9	46	115				
Surr: Nitrobenzene-d5	14		16.50		84.4	44	125				
Surr: Terphenyl-d14	16		16.50		95.3	58	133				

Sample ID:	LCS-40178	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	LCSS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701926

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		16.54		81.7	46	115				
Surr: Nitrobenzene-d5	14		16.54		84.1	44	125				
Surr: Terphenyl-d14	16		16.54		94.9	58	133				

Sample ID:	1606392-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701928

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	15		17.40		83.7	46	115				
Surr: Nitrobenzene-d5	17		17.40		94.9	44	125				
Surr: Terphenyl-d14	17		17.40		96.9	58	133				

Sample ID:	1606392-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701929

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		17.35		82.3	46	115		0	25	
Surr: Nitrobenzene-d5	16		17.35		92.5	44	125		0	25	
Surr: Terphenyl-d14	17		17.35		97.4	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**MB-40191**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**PBS**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1684396**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.016	0.16									U
1,2-Dichlorobenzene	0.016	0.16									U
1,3-Dichlorobenzene	0.016	0.16									U
1,4-Dichlorobenzene	0.016	0.16									U
2,4,5-Trichlorophenol	0.033	0.16									U
2,4,6-Trichlorophenol	0.033	0.16									U
2,4-Dichlorophenol	0.082	0.16									U
2,4-Dimethyl phenol	0.082	0.16									U
2,4-Dinitrophenol	0.16	0.82									UY
2,4-Dinitrotoluene	0.016	0.16									U
2,6-Dinitrotoluene	0.016	0.16									U
2-Chloronaphthalene	0.016	0.16									U
2-Chlorophenol	0.082	0.16									U
2-Methylphenol (o-Cresol)	0.082	0.16									U
2-Nitroaniline	0.016	0.32									U
2-Nitrophenol	0.082	0.16									U
3,3´-Dichlorobenzidine	0.66	0.99									U
3-Nitroaniline	0.016	0.32									U
3/4-Methylphenol [m/p-Cresol]	0.082	0.32									U
4,6-Dinitro-2-methylphenol	0.082	0.32									UY
4-Bromophenyl phenyl ether	0.082	0.20									U
4-Chloro-3-methylphenol	0.033	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.082	0.16									U
4-Chlorophenyl phenyl ether	0.016	0.16									U
4-Nitroaniline	0.082	0.32									U
4-Nitrophenol	0.33	0.82									U
Benzoic acid	0.33	0.99									UYZ
Benzyl alcohol	0.016	0.65									U
Bis(2-chloroethoxy) methane	0.016	0.16									U
Bis(2-chloroethyl) ether	0.033	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**MB-40191**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**PBS**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1684396**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.016	0.16									UYZ
Bis(2-ethylhexyl) phthalate	0.033	0.16									U
Butyl benzyl phthalate	0.033	0.16									U
Carbazole	0.016	0.16									U
Di-n-butyl phthalate	0.033	0.16									U
Di-n-octyl phthalate	0.016	0.16									U
Dibenzofuran	0.016	0.16									U
Diethyl phthalate	0.016	0.16									U
Dimethyl phthalate	0.016	0.16									U
Hexachlorobenzene	0.016	0.16									U
Hexachlorobutadiene	0.016	0.049									U
Hexachloroethane	0.016	0.16									U
Isophorone	0.016	0.16									U
N-Nitrosodi-n-propylamine	0.016	0.16									U
N-Nitrosodimethylamine	0.016	0.16									UY
N-Nitrosodiphenylamine	0.016	0.16									U
Nitrobenzene	0.016	0.16									U
Pentachlorophenol	0.082	0.16									UY
Phenol	0.082	0.16									U
Surr: 2,4,6-Tribromophenol	750		824.8		90.9	39	132				
Surr: 2-Fluorobiphenyl	670		824.8		81.8	44	115				
Surr: 2-Fluorophenol	500		824.8		60.4	35	115				
Surr: Nitrobenzene-d5	590		824.8		71.7	37	122				
Surr: Phenol-d5	490		824.8		59.5	33	122				
Surr: Terphenyl-d14	710		824.8		86.4	54	127				

Sample ID:	**LCS-40191**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**LCSS**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711437**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.53	0.16	0.66	0	79.7	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**LCS-40191**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**LCSS**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711437**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.50	0.16	0.66	0	76.1	33	117				
1,3-Dichlorobenzene	0.49	0.16	0.66	0	74.3	30	115				
1,4-Dichlorobenzene	0.50	0.16	0.66	0	75.0	31	115				
2,4,5-Trichlorophenol	0.57	0.16	0.66	0	86.9	41	124				
2,4,6-Trichlorophenol	0.63	0.16	0.66	0	95.7	39	126				
2,4-Dichlorophenol	0.40	0.16	0.66	0	60.7	40	122				
2,4-Dimethyl phenol	0.51	0.16	0.66	0	77.7	30	127				
2,4-Dinitrophenol	1.8	0.82	1.7	0	107	50	130				JY
2,4-Dinitrotoluene	0.64	0.16	0.66	0	96.7	48	126				
2,6-Dinitrotoluene	0.57	0.16	0.66	0	86.4	46	124				
2-Chloronaphthalene	0.49	0.16	0.66	0	73.9	41	114				
2-Chlorophenol	0.54	0.16	0.66	0	81.6	34	121				
2-Methylphenol (o-Cresol)	0.54	0.16	0.66	0	81.5	32	122				
2-Nitroaniline	0.54	0.32	0.66	0	81.8	44	127				
2-Nitrophenol	0.60	0.16	0.66	0	90.3	36	123				
3,3´-Dichlorobenzidine	0.55	0.99	0.66	0	83.4	22	121				J
3-Nitroaniline	0.55	0.32	0.66	0	83.8	33	119				
3/4-Methylphenol [m/p-Cresol]	0.98	0.32	1.3	0	73.9	34	119				
4,6-Dinitro-2-methylphenol	0.75	0.32	0.66	0	113	29	132				Y
4-Bromophenyl phenyl ether	0.50	0.20	0.66	0	75.0	46	124				
4-Chloro-3-methylphenol	0.62	0.16	0.66	0	93.6	45	122				
4-Chloroaniline [p-Chloroaniline]	0.43	0.16	0.66	0	65.4	17	106				
4-Chlorophenyl phenyl ether	0.57	0.16	0.66	0	86.5	45	121				
4-Nitroaniline	0.51	0.32	0.66	0	76.7	50	130				
4-Nitrophenol	1.4	0.82	1.7	0	83.6	30	132				
Benzoic acid	1.4	0.99	1.3	0	106	40	117				YZ
Benzyl alcohol	0.48	0.65	0.66	0	72.1	29	122				J
Bis(2-chloroethoxy) methane	0.47	0.16	0.66	0	71.5	36	121				
Bis(2-chloroethyl) ether	0.45	0.16	0.66	0	67.8	31	120				
Bis(2-chloroisopropyl)ether	0.47	0.16	0.66	0	71.5	33	131				YZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	LCS-40191	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	LCSS	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711437

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.57	0.16	0.66	0	86.3	51	133				
Butyl benzyl phthalate	0.56	0.16	0.66	0	84.9	48	132				
Carbazole	0.53	0.16	0.66	0	80.3	50	123				
Di-n-butyl phthalate	0.53	0.16	0.66	0	79.7	51	128				
Di-n-octyl phthalate	0.54	0.16	0.66	0	82.2	45	140				
Dibenzofuran	0.53	0.16	0.66	0	80.8	44	120				
Diethyl phthalate	0.56	0.16	0.66	0	84.6	50	124				
Dimethyl phthalate	0.53	0.16	0.66	0	80.9	48	124				
Hexachlorobenzene	0.49	0.16	0.66	0	74.6	45	122				
Hexachlorobutadiene	0.57	0.050	0.66	0	85.5	32	123				
Hexachloroethane	0.48	0.16	0.66	0	73.1	28	117				
Isophorone	0.47	0.16	0.66	0	70.8	30	122				
N-Nitrosodi-n-propylamine	0.49	0.16	0.66	0	74.3	50	130				
N-Nitrosodimethylamine	0.39	0.16	0.66	0	59.6	23	120				Y
N-Nitrosodiphenylamine	0.49	0.16	0.66	0	74.3	38	127				
Nitrobenzene	0.48	0.16	0.66	0	73.3	34	122				
Pentachlorophenol	0.70	0.16	0.66	0	106	25	133				Y
Phenol	0.53	0.16	0.66	0	80.1	34	121				
Surr: 2,4,6-Tribromophenol	810		826.4		98.1	39	132				
Surr: 2-Fluorobiphenyl	690		826.4		83.1	44	115				
Surr: 2-Fluorophenol	630		826.4		76.3	35	115				
Surr: Nitrobenzene-d5	690		826.4		83.9	37	122				
Surr: Phenol-d5	670		826.4		81.6	33	122				
Surr: Terphenyl-d14	760		826.4		92.3	54	127				

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	ZZZZZZ	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.55	0.17	0.72	0	75.6	34	118				
1,2-Dichlorobenzene	0.53	0.17	0.72	0	73.8	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40191

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	ZZZZZZ	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.51	0.17	0.72	0	71.0	30	115				
1,4-Dichlorobenzene	0.50	0.17	0.72	0	69.7	31	115				
2,4,5-Trichlorophenol	0.63	0.17	0.72	0	87.6	41	124				
2,4,6-Trichlorophenol	0.66	0.17	0.72	0	91.8	39	126				
2,4-Dichlorophenol	0.64	0.17	0.72	0	88.7	40	122				
2,4-Dimethyl phenol	0.51	0.17	0.72	0	70.6	30	127				
2,4-Dinitrophenol	1.9	0.90	1.8	0	105	50	130				JY
2,4-Dinitrotoluene	0.65	0.17	0.72	0	90.1	48	126				
2,6-Dinitrotoluene	0.59	0.17	0.72	0	81.5	46	124				
2-Chloronaphthalene	0.49	0.17	0.72	0	68.4	41	114				
2-Chlorophenol	0.55	0.17	0.72	0	76.5	34	121				
2-Methylphenol (o-Cresol)	0.56	0.17	0.72	0	77.9	32	122				
2-Nitroaniline	0.58	0.35	0.72	0	80.3	44	127				
2-Nitrophenol	0.65	0.17	0.72	0	89.7	36	123				
3,3´-Dichlorobenzidine	0.72	1.1	0.72	0	0	22	121				QU
3-Nitroaniline	0.58	0.35	0.72	0	80.0	33	119				
3/4-Methylphenol [m/p-Cresol]	1.1	0.35	1.4	0	73.8	42	126				
4,6-Dinitro-2-methylphenol	0.78	0.35	0.72	0	108	29	132				Y
4-Bromophenyl phenyl ether	0.53	0.22	0.72	0	73.5	46	124				
4-Chloro-3-methylphenol	0.66	0.17	0.72	0	91.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.49	0.17	0.72	0	68.2	17	106				
4-Chlorophenyl phenyl ether	0.60	0.17	0.72	0	83.4	45	121				
4-Nitroaniline	0.54	0.35	0.72	0	74.4	50	130				
4-Nitrophenol	1.6	0.90	1.8	0	86.1	30	132				
Benzoic acid	2.7	1.1	1.4	0	188	40	117				JQYZ
Benzyl alcohol	0.53	0.72	0.72	0	73.1	29	122				J
Bis(2-chloroethoxy) methane	0.50	0.17	0.72	0	68.9	36	121				
Bis(2-chloroethyl) ether	0.78	0.17	0.72	0	108	31	120				
Bis(2-chloroisopropyl)ether	0.49	0.17	0.72	0	67.3	33	131				YZ
Bis(2-ethylhexyl) phthalate	0.61	0.17	0.72	0	84.7	51	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40191

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	ZZZZZZ	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.60	0.17	0.72	0	82.9	48	132				
Carbazole	0.56	0.17	0.72	0	77.1	50	123				
Di-n-butyl phthalate	0.55	0.17	0.72	0	76.2	51	128				
Di-n-octyl phthalate	0.60	0.17	0.72	0	82.4	45	140				
Dibenzofuran	0.55	0.17	0.72	0	76.5	44	120				
Diethyl phthalate	0.58	0.17	0.72	0	80.2	50	124				
Dimethyl phthalate	0.57	0.17	0.72	0	78.5	48	124				
Hexachlorobenzene	0.54	0.17	0.72	0	74.1	45	122				
Hexachlorobutadiene	0.58	0.054	0.72	0	79.9	32	123				
Hexachloroethane	0.49	0.17	0.72	0	68.2	28	117				
Isophorone	0.49	0.17	0.72	0	67.5	30	122				
N-Nitrosodi-n-propylamine	0.52	0.17	0.72	0	71.4	50	130				
N-Nitrosodimethylamine	0.41	0.17	0.72	0	56.9	23	120				Y
N-Nitrosodiphenylamine	0.49	0.17	0.72	0	68.4	38	127				
Nitrobenzene	0.51	0.17	0.72	0	70.9	34	122				
Pentachlorophenol	0.77	0.17	0.72	0	106	25	133				Y
Phenol	0.54	0.17	0.72	0	74.1	34	121				
Surr: 2,4,6-Tribromophenol	840		904.1		92.4	39	132				
Surr: 2-Fluorobiphenyl	710		904.1		78.8	44	115				
Surr: 2-Fluorophenol	670		904.1		74.4	35	115				
Surr: Nitrobenzene-d5	720		904.1		79.5	37	122				
Surr: Phenol-d5	720		904.1		79.2	33	122				
Surr: Terphenyl-d14	800		904.1		88.0	54	127				

Sample ID:	1606425-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	ZZZZZZ	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711439

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.51	0.17	0.72	0	70.6	34	118	0.55	7.00	25	
1,2-Dichlorobenzene	0.49	0.17	0.72	0	67.9	33	117	0.53	8.56	25	
1,3-Dichlorobenzene	0.48	0.17	0.72	0	67.1	30	115	0.51	5.81	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**1606425-005AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**ZZZZZZ**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711439**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.48	0.17	0.72	0	66.7	31	115	0.50	4.56	25	
2,4,5-Trichlorophenol	0.58	0.17	0.72	0	80.3	41	124	0.63	8.85	25	
2,4,6-Trichlorophenol	0.62	0.17	0.72	0	85.4	39	126	0.66	7.44	25	
2,4-Dichlorophenol	0.60	0.17	0.72	0	83.6	40	122	0.64	6.08	25	
2,4-Dimethyl phenol	0.49	0.17	0.72	0	67.5	30	127	0.51	4.65	25	
2,4-Dinitrophenol	1.8	0.90	1.8	0	97.4	50	130	1.9	7.31	25	Y
2,4-Dinitrotoluene	0.60	0.17	0.72	0	83.1	48	126	0.65	8.30	25	
2,6-Dinitrotoluene	0.54	0.17	0.72	0	75.4	46	124	0.59	8.00	25	
2-Chloronaphthalene	0.47	0.17	0.72	0	65.1	41	114	0.49	5.11	25	
2-Chlorophenol	0.52	0.17	0.72	0	72.1	34	121	0.55	6.08	25	
2-Methylphenol (o-Cresol)	0.53	0.17	0.72	0	73.1	32	122	0.56	6.45	25	
2-Nitroaniline	0.55	0.35	0.72	0	76.0	44	127	0.58	5.67	25	
2-Nitrophenol	0.62	0.17	0.72	0	85.4	36	123	0.65	5.13	25	
3,3´-Dichlorobenzidine	0.72	1.1	0.72	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.55	0.35	0.72	0	75.8	33	119	0.58	5.55	25	
3/4-Methylphenol [m/p-Cresol]	0.99	0.35	1.4	0	68.5	42	126	1.1	7.58	25	
4,6-Dinitro-2-methylphenol	0.73	0.35	0.72	0	101	29	132	0.78	6.93	25	Y
4-Bromophenyl phenyl ether	0.48	0.22	0.72	0	66.2	46	124	0.53	10.5	25	
4-Chloro-3-methylphenol	0.62	0.17	0.72	0	85.2	45	122	0.66	6.96	25	
4-Chloroaniline [p-Chloroaniline]	0.47	0.17	0.72	0	64.6	17	106	0.49	5.66	25	
4-Chlorophenyl phenyl ether	0.56	0.17	0.72	0	77.5	45	121	0.60	7.56	25	
4-Nitroaniline	0.49	0.35	0.72	0	67.7	50	130	0.54	9.52	25	
4-Nitrophenol	1.4	0.90	1.8	0	76.0	30	132	1.6	12.6	25	
Benzoic acid	2.9	1.1	1.4	0	200	40	117	2.7	5.87	25	JQYZ
Benzyl alcohol	0.51	0.71	0.72	0	70.1	29	122	0.53	4.35	25	J
Bis(2-chloroethoxy) methane	0.47	0.17	0.72	0	64.6	36	121	0.50	6.60	25	
Bis(2-chloroethyl) ether	0.69	0.17	0.72	0	95.2	31	120	0.78	12.9	25	
Bis(2-chloroisopropyl)ether	0.45	0.17	0.72	0	62.3	33	131	0.49	7.88	25	YZ
Bis(2-ethylhexyl) phthalate	0.56	0.17	0.72	0	77.0	51	133	0.61	9.75	25	
Butyl benzyl phthalate	0.55	0.17	0.72	0	75.8	48	132	0.60	9.10	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**1606425-005AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**ZZZZZZ**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711439**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.50	0.17	0.72	0	69.6	50	123	0.56	10.3	25	
Di-n-butyl phthalate	0.52	0.17	0.72	0	71.6	51	128	0.55	6.45	25	
Di-n-octyl phthalate	0.54	0.17	0.72	0	74.2	45	140	0.60	10.6	25	
Dibenzofuran	0.52	0.17	0.72	0	72.1	44	120	0.55	6.15	25	
Diethyl phthalate	0.55	0.17	0.72	0	75.9	50	124	0.58	5.67	25	
Dimethyl phthalate	0.52	0.17	0.72	0	72.5	48	124	0.57	8.17	25	
Hexachlorobenzene	0.48	0.17	0.72	0	67.1	45	122	0.54	10.0	25	
Hexachlorobutadiene	0.55	0.054	0.72	0	75.7	32	123	0.58	5.62	25	
Hexachloroethane	0.46	0.17	0.72	0	63.5	28	117	0.49	7.30	25	
Isophorone	0.45	0.17	0.72	0	62.9	30	122	0.49	7.29	25	
N-Nitrosodi-n-propylamine	0.49	0.17	0.72	0	67.2	50	130	0.52	6.15	25	
N-Nitrosodimethylamine	0.39	0.17	0.72	0	54.5	23	120	0.41	4.47	25	Y
N-Nitrosodiphenylamine	0.46	0.17	0.72	0	63.6	38	127	0.49	7.36	25	
Nitrobenzene	0.48	0.17	0.72	0	66.5	34	122	0.51	6.64	25	
Pentachlorophenol	0.71	0.17	0.72	0	98.4	25	133	0.77	7.97	25	Y
Phenol	0.51	0.17	0.72	0	70.4	34	121	0.54	5.35	25	
Surr: 2,4,6-Tribromophenol	760		902.7		84.6	39	132		0	25	
Surr: 2-Fluorobiphenyl	660		902.7		72.9	44	115		0	25	
Surr: 2-Fluorophenol	620		902.7		68.8	35	115		0	25	
Surr: Nitrobenzene-d5	650		902.7		72.3	37	122		0	25	
Surr: Phenol-d5	640		902.7		71.4	33	122		0	25	
Surr: Terphenyl-d14	710		902.7		78.3	54	127		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40340

Sample ID:	LCS-40340	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87151	
Client ID:	LCSS	Batch ID:	40340	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691865	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	9.9	0.20	10	0	98.9	83	118				G	

Sample ID:	MB-40340	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87151	
Client ID:	PBS	Batch ID:	40340	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691866	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	0.050	0.20									UG	

Sample ID:	1606389-005BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/5/2016	RunNo:	87151	
Client ID:	ZZZZZZ	Batch ID:	40340	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691868	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.0	0.14	7.2	0.070	95.1	83	118				G	

Sample ID:	1606389-005BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/5/2016	RunNo:	87151	
Client ID:	ZZZZZZ	Batch ID:	40340	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691869	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	6.7	0.15	7.3	0.070	90.5	83	118	7.0	3.63	20	G	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86576**

Sample ID:	**1606229-012A DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/9/2016**	RunNo:	**86576**
Client ID:	**ZZZZZZ**	Batch ID:	**R86576**	TestNo:	**D2216**			Analysis Date:	**6/9/2016**	SeqNo:	**1679617**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	13	1.0						12.06	5.78	20	

Sample ID:	**1606286-006C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/9/2016**	RunNo:	**86576**
Client ID:	**ZZZZZZ**	Batch ID:	**R86576**	TestNo:	**D2216**			Analysis Date:	**6/9/2016**	SeqNo:	**1679629**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	10	1.0						11.49	13.6	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86611**

Sample ID:	**1606293-004G DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/10/2016**	RunNo:	**86611**
Client ID:	**H20-SS02-01LR1**	Batch ID:	**R86611**	TestNo:	**D2216**			Analysis Date:	**6/10/2016**	SeqNo:	**1680314**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	24	1.0						20.24	18.3	20	

Sample ID:	**1606293-021D DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/10/2016**	RunNo:	**86611**
Client ID:	**WDS-SB27-08 DUPLR1**	Batch ID:	**R86611**	TestNo:	**D2216**			Analysis Date:	**6/10/2016**	SeqNo:	**1680331**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	15	1.0						18.20	16.2	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86632

Sample ID:	VOA11B LCS 06131	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86632
Client ID:	LCSS	Batch ID:	R86632	TestNo:	SW8260B			Analysis Date:	6/13/2016	SeqNo:	1680824

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	57		60.00		95.1	79	119				
Surr: Dibromofluoromethane	57		60.00		95.1	78	119				
Surr: Toluene-d8	57		60.00		94.9	85	116				

Sample ID:	VOA11B MBLK 0613	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86632
Client ID:	PBS	Batch ID:	R86632	TestNo:	SW8260B			Analysis Date:	6/13/2016	SeqNo:	1680826

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	43		50.00		85.2	79	119				
Surr: Dibromofluoromethane	44		50.00		88.0	78	119				
Surr: Toluene-d8	44		50.00		88.0	85	116				

Sample ID:	1606293-005AMS	Samp Type:	MS	Test Code:	SW_8260S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86632
Client ID:	H20-SS02-02MS1	Batch ID:	R86632	TestNo:	SW8260B			Analysis Date:	6/13/2016	SeqNo:	1680834

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	46		50.80		90.8	79	119				
Surr: Dibromofluoromethane	51		50.80		100	78	119				
Surr: Toluene-d8	47		50.80		92.2	85	116				

Sample ID:	1606293-005AMSD	Samp Type:	MSD	Test Code:	SW_8260S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86632
Client ID:	H20-SS02-02SD1	Batch ID:	R86632	TestNo:	SW8260B			Analysis Date:	6/13/2016	SeqNo:	1680835

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	52		56.45		91.3	79	119		0	25	
Surr: Dibromofluoromethane	59		56.45		105	78	119		0	25	
Surr: Toluene-d8	56		56.45		98.4	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86674

Sample ID:	**VOA11B LCS 06141**	Samp Type:	**LCS**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/14/2016**	RunNo:	**86674**
Client ID:	**LCSS**	Batch ID:	**R86674**	TestNo:	**SW8260B**			Analysis Date:	**6/14/2016**	SeqNo:	**1681425**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0090	0.0010	0.010	0	90.3	78	125				
1,1,1-Trichloroethane	0.0091	0.0010	0.010	0	91.2	73	130				
1,1,2,2-Tetrachloroethane	0.0093	0.0010	0.010	0	92.8	70	124				
1,1,2-Trichloroethane	0.0094	0.0010	0.010	0	94.0	78	121				
1,1-Dichloroethane	0.0097	0.0010	0.010	0	96.9	76	125				
1,1-Dichloroethene	0.0096	0.0010	0.010	0	96.3	70	131				
1,2,3-Trichloropropane	0.010	0.0010	0.010	0	104	73	125				
1,2-Dibromo-3-chloropropane	0.0081	0.0050	0.010	0	81.3	61	132				
1,2-Dibromoethane	0.0096	0.0010	0.010	0	96.0	78	122				
1,2-Dichloroethane	0.010	0.0010	0.010	0	101	73	128				
1,2-Dichloropropane	0.0093	0.0010	0.010	0	92.8	76	123				
2-Butanone [MEK]	0.012	0.020	0.010	0	123	51	148				J
2-Hexanone	0.0091	0.0050	0.010	0	91.3	53	145				
Acetone	0.018	0.010	0.010	0	184	36	164				QY
Benzene	0.0094	0.0010	0.010	0	94.4	77	121				
Bromodichloromethane	0.0094	0.0010	0.010	0	94.4	75	127				
Bromoform	0.0067	0.0010	0.010	0	67.1	67	132				
Carbon disulfide	0.0091	0.0010	0.010	0	91.0	63	132				
Carbon tetrachloride	0.0097	0.0010	0.010	0	96.9	70	135				
Chlorobenzene	0.0091	0.0010	0.010	0	90.5	79	120				
Chlorodibromomethane	0.0075	0.0010	0.010	0	75.3	74	126				
Chloroethane	0.010	0.0020	0.010	0	103	59	139				
Chloroform	0.0093	0.0010	0.010	0	93.3	78	123				
Chloromethane	0.011	0.0010	0.010	0	107	50	136				
cis-1,2-Dichloroethene	0.0096	0.0010	0.010	0	95.8	77	123				
cis-1,3-Dichloropropene	0.0077	0.0010	0.010	0	76.9	74	126				
Dichlorodifluoromethane [Freon-12]	0.011	0.0010	0.010	0	113	29	149				
Ethylbenzene	0.0089	0.0010	0.010	0	89.4	76	122				
Methylene chloride	0.012	0.0050	0.010	0	118	70	128				
Styrene	0.0078	0.0010	0.010	0	78.4	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86674

Sample ID:	VOA11B LCS 06141	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86674
Client ID:	LCSS	Batch ID:	R86674	TestNo:	SW8260B			Analysis Date:	6/14/2016	SeqNo:	1681425

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0089	0.0010	0.010	0	88.6	73	128				
Toluene	0.028	0.0010	0.010	0	284	77	121				Q
trans-1,2-Dichloroethene	0.010	0.0010	0.010	0	102	74	125				
trans-1,3-Dichloropropene	0.0074	0.0010	0.010	0	73.9	71	130				
Trichloroethene	0.0091	0.0010	0.010	0	90.5	77	123				
Trichlorofluoromethane [Freon-11]	0.0097	0.0010	0.010	0	96.7	62	140				Y
Vinyl acetate	0.011	0.0050	0.010	0	110	50	151				Y
Vinyl chloride	0.011	0.00080	0.010	0	108	56	135				
Xylene (Total)	0.027	0.0030	0.030	0	90.1	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.4	79	119				
Surr: Dibromofluoromethane	57		60.00		95.4	78	119				
Surr: Toluene-d8	57		60.00		94.6	85	116				

Sample ID:	VOA11B LCSD 0614	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86674
Client ID:	LCSS02	Batch ID:	R86674	TestNo:	SW8260B			Analysis Date:	6/14/2016	SeqNo:	1681426

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0093	0.0010	0.010	0	93.1	78	125	0.0090	3.05	25	
1,1,1-Trichloroethane	0.0095	0.0010	0.010	0	94.7	73	130	0.0091	3.77	25	
1,1,2,2-Tetrachloroethane	0.0095	0.0010	0.010	0	94.9	70	124	0.0093	2.24	25	
1,1,2-Trichloroethane	0.0095	0.0010	0.010	0	95.3	78	121	0.0094	1.37	25	
1,1-Dichloroethane	0.010	0.0010	0.010	0	102	76	125	0.0097	4.74	25	
1,1-Dichloroethene	0.010	0.0010	0.010	0	101	70	131	0.0096	4.27	25	
1,2,3-Trichloropropane	0.0089	0.0010	0.010	0	89.0	73	125	0.010	15.5	25	
1,2-Dibromo-3-chloropropane	0.0078	0.0050	0.010	0	77.7	61	132	0.0081	4.53	25	
1,2-Dibromoethane	0.0098	0.0010	0.010	0	97.5	78	122	0.0096	1.55	25	
1,2-Dichloroethane	0.011	0.0010	0.010	0	106	73	128	0.010	4.25	25	
1,2-Dichloropropane	0.0097	0.0010	0.010	0	96.6	76	123	0.0093	4.01	25	
2-Butanone [MEK]	0.012	0.020	0.010	0	116	51	148	0.012	5.45	25	J
2-Hexanone	0.0087	0.0050	0.010	0	86.8	53	145	0.0091	5.05	25	
Acetone	0.017	0.010	0.010	0	168	36	164	0.018	9.19	25	QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86674

Sample ID:	VOA11B LCSD 0614	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86674
Client ID:	LCSS02	Batch ID:	R86674	TestNo:	SW8260B			Analysis Date:	6/14/2016	SeqNo:	1681426

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0099	0.0010	0.010	0	98.8	77	121	0.0094	4.55	25	
Bromodichloromethane	0.0096	0.0010	0.010	0	95.9	75	127	0.0094	1.58	25	
Bromoform	0.0066	0.0010	0.010	0	66.1	67	132	0.0067	1.50	25	Q
Carbon disulfide	0.0094	0.0010	0.010	0	93.7	63	132	0.0091	2.92	25	
Carbon tetrachloride	0.0098	0.0010	0.010	0	98.3	70	135	0.0097	1.43	25	
Chlorobenzene	0.0094	0.0010	0.010	0	94.1	79	120	0.0091	3.90	25	
Chlorodibromomethane	0.0074	0.0010	0.010	0	74.1	74	126	0.0075	1.61	25	
Chloroethane	0.011	0.0020	0.010	0	108	59	139	0.010	4.82	25	
Chloroform	0.0096	0.0010	0.010	0	96.3	78	123	0.0093	3.16	25	
Chloromethane	0.011	0.0010	0.010	0	108	50	136	0.011	0.929	25	
cis-1,2-Dichloroethene	0.010	0.0010	0.010	0	101	77	123	0.0096	5.68	25	
cis-1,3-Dichloropropene	0.0078	0.0010	0.010	0	77.6	74	126	0.0077	0.906	25	
Dichlorodifluoromethane [Freon-12]	0.012	0.0010	0.010	0	118	29	149	0.011	4.84	25	
Ethylbenzene	0.0093	0.0010	0.010	0	93.1	76	122	0.0089	4.05	25	
Methylene chloride	0.012	0.0050	0.010	0	124	70	128	0.012	5.11	25	
Styrene	0.0082	0.0010	0.010	0	82.0	76	124	0.0078	4.49	25	
Tetrachloroethene	0.0090	0.0010	0.010	0	90.2	73	128	0.0089	1.79	25	
Toluene	0.033	0.0010	0.010	0	333	77	121	0.028	15.7	25	Q
trans-1,2-Dichloroethene	0.010	0.0010	0.010	0	104	74	125	0.010	2.04	25	
trans-1,3-Dichloropropene	0.0076	0.0010	0.010	0	76.4	71	130	0.0074	3.33	25	
Trichloroethene	0.0092	0.0010	0.010	0	91.8	77	123	0.0091	1.43	25	
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	110	62	140	0.0097	12.4	25	Y
Vinyl acetate	0.011	0.0050	0.010	0	110	50	151	0.011	0.0910	25	Y
Vinyl chloride	0.011	0.00080	0.010	0	112	56	135	0.011	4.09	25	
Xylene (Total)	0.028	0.0030	0.030	0	93.6	78	124	0.027	3.81	25	
Surr: 4-Bromofluorobenzene	57		60.00		94.4	79	119		0	25	
Surr: Dibromofluoromethane	58		60.00		96.2	78	119		0	25	
Surr: Toluene-d8	56		60.00		94.2	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86674**

Sample ID:	**VOA11B MBLK 0614**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/14/2016**	RunNo:	**86674**
Client ID:	**PBS**	Batch ID:	**R86674**	TestNo:	**SW8260B**			Analysis Date:	**6/14/2016**	SeqNo:	**1681428**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.0038	0.010									JY
Benzene	0.00060	0.0010									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									U
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0030	0.0050									JT
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86674**

Sample ID:	**VOA11B MBLK 0614**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/14/2016**	RunNo:	**86674**
Client ID:	**PBS**	Batch ID:	**R86674**	TestNo:	**SW8260B**			Analysis Date:	**6/14/2016**	SeqNo:	**1681428**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									UY
Vinyl acetate	0.00060	0.0050									UY
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	44		50.00		87.6	79	119				
Surr: Dibromofluoromethane	46		50.00		92.1	78	119				
Surr: Toluene-d8	44		50.00		88.3	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86694**

Sample ID:	**VOA11B LCS 06151**	Samp Type:	**LCS**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86694**
Client ID:	**LCSS**	Batch ID:	**R86694**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1681953**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0093	0.0010	0.010	0	93.4	78	125				
1,1,1-Trichloroethane	0.0092	0.0010	0.010	0	91.6	73	130				
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	103	70	124				
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	102	78	121				
1,1-Dichloroethane	0.010	0.0010	0.010	0	99.7	76	125				
1,1-Dichloroethene	0.0098	0.0010	0.010	0	98.5	70	131				
1,2,3-Trichloropropane	0.0098	0.0010	0.010	0	97.5	73	125				
1,2-Dibromo-3-chloropropane	0.0081	0.0050	0.010	0	80.9	61	132				
1,2-Dibromoethane	0.010	0.0010	0.010	0	102	78	122				
1,2-Dichloroethane	0.011	0.0010	0.010	0	106	73	128				
1,2-Dichloropropane	0.010	0.0010	0.010	0	101	76	123				
2-Butanone [MEK]	0.011	0.020	0.010	0	110	51	148				J
2-Hexanone	0.0097	0.0050	0.010	0	97.0	53	145				
Acetone	0.018	0.010	0.010	0	185	36	164				QY
Benzene	0.0095	0.0010	0.010	0	95.3	77	121				
Bromodichloromethane	0.010	0.0010	0.010	0	101	75	127				
Bromoform	0.0069	0.0010	0.010	0	68.9	67	132				
Carbon disulfide	0.0093	0.0010	0.010	0	92.8	63	132				
Carbon tetrachloride	0.010	0.0010	0.010	0	99.7	70	135				
Chlorobenzene	0.0094	0.0010	0.010	0	93.5	79	120				
Chlorodibromomethane	0.0080	0.0010	0.010	0	79.7	74	126				
Chloroethane	0.011	0.0020	0.010	0	113	59	139				
Chloroform	0.0098	0.0010	0.010	0	97.9	78	123				
Chloromethane	0.011	0.0010	0.010	0	110	50	136				
cis-1,2-Dichloroethene	0.0097	0.0010	0.010	0	97.0	77	123				
cis-1,3-Dichloropropene	0.0080	0.0010	0.010	0	80.2	74	126				
Dichlorodifluoromethane [Freon-12]	0.011	0.0010	0.010	0	114	29	149				
Ethylbenzene	0.0092	0.0010	0.010	0	92.3	76	122				
Methylene chloride	0.020	0.0050	0.010	0	198	70	128				QB
Styrene	0.0082	0.0010	0.010	0	81.6	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86694

Sample ID:	VOA11B LCS 06151	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86694
Client ID:	LCSS	Batch ID:	R86694	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1681953

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0091	0.0010	0.010	0	91.2	73	128				
Toluene	0.0095	0.0010	0.010	0	94.9	77	121				
trans-1,2-Dichloroethene	0.010	0.0010	0.010	0	105	74	125				
trans-1,3-Dichloropropene	0.0079	0.0010	0.010	0	79.0	71	130				
Trichloroethene	0.0096	0.0010	0.010	0	95.8	77	123				
Trichlorofluoromethane [Freon-11]	0.010	0.0010	0.010	0	103	62	140				
Vinyl acetate	0.012	0.0050	0.010	0	118	50	151				Y
Vinyl chloride	0.011	0.00080	0.010	0	115	56	135				
Xylene (Total)	0.028	0.0030	0.030	0	94.3	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.8	79	119				
Surr: Dibromofluoromethane	56		60.00		93.8	78	119				
Surr: Toluene-d8	57		60.00		95.6	85	116				

Sample ID:	VOA11B LCSD 0615	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86694
Client ID:	LCSS02	Batch ID:	R86694	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1681954

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0092	0.0010	0.010	0	92.0	78	125	0.0093	1.51	25	
1,1,1-Trichloroethane	0.0089	0.0010	0.010	0	88.9	73	130	0.0092	2.99	25	
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	103	70	124	0.010	0.680	25	
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	100	78	121	0.010	1.78	25	
1,1-Dichloroethane	0.0097	0.0010	0.010	0	97.0	76	125	0.010	2.75	25	
1,1-Dichloroethene	0.0096	0.0010	0.010	0	96.2	70	131	0.0098	2.36	25	
1,2,3-Trichloropropane	0.0097	0.0010	0.010	0	97.1	73	125	0.0098	0.411	25	
1,2-Dibromo-3-chloropropane	0.0082	0.0050	0.010	0	82.4	61	132	0.0081	1.84	25	
1,2-Dibromoethane	0.010	0.0010	0.010	0	99.9	78	122	0.010	1.59	25	
1,2-Dichloroethane	0.011	0.0010	0.010	0	106	73	128	0.011	0.284	25	
1,2-Dichloropropane	0.0097	0.0010	0.010	0	97.4	76	123	0.010	3.13	25	
2-Butanone [MEK]	0.011	0.020	0.010	0	110	51	148	0.011	0.182	25	J
2-Hexanone	0.0091	0.0050	0.010	0	91.3	53	145	0.0097	6.05	25	
Acetone	0.018	0.010	0.010	0	180	36	164	0.018	2.58	25	QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86694

Sample ID:	VOA11B LCSD 0615	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86694
Client ID:	LCSS02	Batch ID:	R86694	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1681954

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0095	0.0010	0.010	0	94.9	77	121	0.0095	0.421	25	
Bromodichloromethane	0.0096	0.0010	0.010	0	95.5	75	127	0.010	5.89	25	
Bromoform	0.0070	0.0010	0.010	0	70.0	67	132	0.0069	1.58	25	
Carbon disulfide	0.0087	0.0010	0.010	0	87.3	63	132	0.0093	6.11	25	
Carbon tetrachloride	0.0094	0.0010	0.010	0	94.2	70	135	0.010	5.67	25	
Chlorobenzene	0.0093	0.0010	0.010	0	93.3	79	120	0.0094	0.214	25	
Chlorodibromomethane	0.0077	0.0010	0.010	0	77.4	74	126	0.0080	2.93	25	
Chloroethane	0.011	0.0020	0.010	0	108	59	139	0.011	4.60	25	
Chloroform	0.0097	0.0010	0.010	0	96.9	78	123	0.0098	1.03	25	
Chloromethane	0.011	0.0010	0.010	0	108	50	136	0.011	1.19	25	
cis-1,2-Dichloroethene	0.010	0.0010	0.010	0	100	77	123	0.0097	3.05	25	
cis-1,3-Dichloropropene	0.0076	0.0010	0.010	0	75.6	74	126	0.0080	5.91	25	
Dichlorodifluoromethane [Freon-12]	0.011	0.0010	0.010	0	110	29	149	0.011	3.57	25	
Ethylbenzene	0.0088	0.0010	0.010	0	87.7	76	122	0.0092	5.11	25	
Methylene chloride	0.018	0.0050	0.010	0	178	70	128	0.020	10.7	25	QB
Styrene	0.0080	0.0010	0.010	0	80.0	76	124	0.0082	1.98	25	
Tetrachloroethene	0.0086	0.0010	0.010	0	85.7	73	128	0.0091	6.22	25	
Toluene	0.0092	0.0010	0.010	0	92.0	77	121	0.0095	3.10	25	
trans-1,2-Dichloroethene	0.010	0.0010	0.010	0	99.5	74	125	0.010	5.38	25	
trans-1,3-Dichloropropene	0.0077	0.0010	0.010	0	77.2	71	130	0.0079	2.30	25	
Trichloroethene	0.0092	0.0010	0.010	0	92.4	77	123	0.0096	3.61	25	
Trichlorofluoromethane [Freon-11]	0.010	0.0010	0.010	0	103	62	140	0.010	0.195	25	
Vinyl acetate	0.012	0.0050	0.010	0	121	50	151	0.012	2.51	25	Y
Vinyl chloride	0.011	0.00080	0.010	0	114	56	135	0.011	0.524	25	
Xylene (Total)	0.027	0.0030	0.030	0	88.9	78	124	0.028	5.86	25	
Surr: 4-Bromofluorobenzene	57		60.00		94.9	79	119		0	25	
Surr: Dibromofluoromethane	56		60.00		93.2	78	119		0	25	
Surr: Toluene-d8	56		60.00		94.1	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86694**

Sample ID:	**VOA11B MBLK 0615**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86694**
Client ID:	**PBS**	Batch ID:	**R86694**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1681956**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.0048	0.010									JY
Benzene	0.00060	0.0010									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									U
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.017	0.0050									T
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86694**

Sample ID:	**VOA11B MBLK 0615**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86694**
Client ID:	**PBS**	Batch ID:	**R86694**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1681956**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									UY
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	43		50.00		85.3	79	119				
Surr: Dibromofluoromethane	45		50.00		90.9	78	119				
Surr: Toluene-d8	44		50.00		87.5	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID:	VOA11B LCS2 0617	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86770
Client ID:	LCSS	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1683522

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.39	0.050	0.50	0	77.3	78	125				Q
1,1,1-Trichloroethane	0.44	0.050	0.50	0	87.9	73	130				
1,1,2,2-Tetrachloroethane	0.48	0.050	0.50	0	96.4	70	124				
1,1,2-Trichloroethane	0.46	0.050	0.50	0	91.3	78	121				
1,1-Dichloroethane	0.47	0.050	0.50	0	93.3	76	125				
1,1-Dichloroethene	0.46	0.050	0.50	0	92.0	70	131				
1,2,3-Trichloropropane	0.46	0.050	0.50	0	91.2	73	125				
1,2-Dibromo-3-chloropropane	0.42	0.25	0.50	0	84.0	61	132				
1,2-Dibromoethane	0.47	0.050	0.50	0	94.4	78	122				
1,2-Dichloroethane	0.47	0.050	0.50	0	94.5	73	128				
1,2-Dichloropropane	0.45	0.050	0.50	0	90.9	76	123				
2-Butanone [MEK]	0.45	0.50	0.50	0	89.9	51	148				J
2-Hexanone	0.40	0.10	0.50	0	79.2	53	145				
Acetone	0.50	0.25	0.50	0	101	36	164				
Benzene	0.46	0.050	0.50	0	91.2	77	121				
Bromodichloromethane	0.36	0.050	0.50	0	72.1	75	127				Q
Bromoform	0.29	0.050	0.50	0	57.0	67	132				QY
Carbon disulfide	0.35	0.050	0.50	0	70.2	63	132				
Carbon tetrachloride	0.46	0.050	0.50	0	92.6	70	135				
Chlorobenzene	0.45	0.050	0.50	0	90.9	79	120				
Chlorodibromomethane	0.31	0.050	0.50	0	62.8	74	126				Q
Chloroethane	0.40	0.25	0.50	0	79.4	59	139				YZ
Chloroform	0.47	0.050	0.50	0	93.2	78	123				
Chloromethane	0.45	0.050	0.50	0	90.7	50	136				
cis-1,2-Dichloroethene	0.46	0.050	0.50	0	91.4	77	123				
cis-1,3-Dichloropropene	0.35	0.050	0.50	0	70.0	74	126				Q
Dichlorodifluoromethane [Freon-12]	0.45	0.25	0.50	0	90.1	29	149				
Ethylbenzene	0.44	0.050	0.50	0	88.9	76	122				
Methylene chloride	0.59	0.10	0.50	0	118	70	128				
Styrene	0.38	0.050	0.50	0	75.6	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID:	VOA11B LCS2 0617	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86770
Client ID:	LCSS	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1683522

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.43	0.050	0.50	0	85.9	73	128				
Toluene	0.46	0.050	0.50	0	92.7	77	121				
trans-1,2-Dichloroethene	0.48	0.050	0.50	0	96.2	74	125				
trans-1,3-Dichloropropene	0.34	0.050	0.50	0	67.5	71	130				Q
Trichloroethene	0.44	0.050	0.50	0	88.5	77	123				
Trichlorofluoromethane [Freon-11]	0.47	0.050	0.50	0	94.5	62	140				
Vinyl acetate	0.44	1.2	0.50	0	88.6	50	151				J
Vinyl chloride	0.48	0.040	0.50	0	95.6	56	135				
Xylene (Total)	1.3	0.15	1.5	0	89.4	78	124				
Surr: 4-Bromofluorobenzene	2,900		3,000		96.6	79	119				
Surr: Dibromofluoromethane	2,900		3,000		96.7	78	119				
Surr: Toluene-d8	2,800		3,000		93.8	85	116				

Sample ID:	VOA11B MBLK2 061	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86770
Client ID:	PBS	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1683524

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.030	0.050									U
1,1,1-Trichloroethane	0.030	0.050									U
1,1,2,2-Tetrachloroethane	0.030	0.050									U
1,1,2-Trichloroethane	0.030	0.050									U
1,1-Dichloroethane	0.030	0.050									U
1,1-Dichloroethene	0.030	0.050									U
1,2,3-Trichloropropane	0.030	0.050									U
1,2-Dibromo-3-chloropropane	0.10	0.25									U
1,2-Dibromoethane	0.030	0.050									U
1,2-Dichloroethane	0.030	0.050									U
1,2-Dichloropropane	0.030	0.050									U
2-Butanone [MEK]	0.25	0.50									U
2-Hexanone	0.050	0.10									U
Acetone	0.10	0.25									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID:	VOA11B MBLK2 061	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86770
Client ID:	PBS	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1683524

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.030	0.050									U
Bromodichloromethane	0.030	0.050									U
Bromoform	0.030	0.050									UY
Carbon disulfide	0.030	0.050									U
Carbon tetrachloride	0.030	0.050									U
Chlorobenzene	0.030	0.050									U
Chlorodibromomethane	0.030	0.050									U
Chloroethane	0.10	0.25									UYZ
Chloroform	0.030	0.050									U
Chloromethane	0.030	0.050									U
cis-1,2-Dichloroethene	0.030	0.050									U
cis-1,3-Dichloropropene	0.030	0.050									U
Dichlorodifluoromethane [Freon-12]	0.10	0.25									U
Ethylbenzene	0.030	0.050									U
Methylene chloride	0.050	0.10									U
Styrene	0.030	0.050									U
Tetrachloroethene	0.030	0.050									U
Toluene	0.030	0.050									U
trans-1,2-Dichloroethene	0.030	0.050									U
trans-1,3-Dichloropropene	0.030	0.050									U
Trichloroethene	0.030	0.050									U
Trichlorofluoromethane [Freon-11]	0.030	0.050									U
Vinyl acetate	0.030	1.2									U
Vinyl chloride	0.030	0.040									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,300		2,500		91.7	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.0	78	119				
Surr: Toluene-d8	2,200		2,500		89.2	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID: **1606430-009CMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683544**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0084	0.0011	0.011	0	73.9	78	125				Q
1,1,1-Trichloroethane	0.0098	0.0011	0.011	0	86.8	73	130				
1,1,2,2-Tetrachloroethane	0.0099	0.0011	0.011	0	87.0	70	124				
1,1,2-Trichloroethane	0.010	0.0011	0.011	0	91.6	78	121				
1,1-Dichloroethane	0.010	0.0011	0.011	0	92.0	76	125				
1,1-Dichloroethene	0.010	0.0011	0.011	0	89.3	70	131				
1,2,3-Trichloropropane	0.0086	0.0011	0.011	0	76.0	73	125				
1,2-Dibromo-3-chloropropane	0.0066	0.0057	0.011	0	57.9	61	132				Q
1,2-Dibromoethane	0.011	0.0011	0.011	0	93.7	78	122				
1,2-Dichloroethane	0.011	0.0011	0.011	0	92.8	73	128				
1,2-Dichloropropane	0.010	0.0011	0.011	0	89.0	76	123				
2-Butanone [MEK]	0.011	0.011	0.011	0	97.4	51	148				J
2-Hexanone	0.0082	0.0023	0.011	0	72.5	53	145				
Acetone	0.011	0.0057	0.011	0	100	36	164				
Benzene	0.010	0.0011	0.011	0	90.3	77	121				
Bromodichloromethane	0.0079	0.0011	0.011	0	69.3	75	127				Q
Bromoform	0.0062	0.0011	0.011	0	54.6	67	132				QY
Carbon disulfide	0.0073	0.0011	0.011	0	64.1	63	132				
Carbon tetrachloride	0.0099	0.0011	0.011	0	87.7	70	135				
Chlorobenzene	0.010	0.0011	0.011	0	89.1	79	120				
Chlorodibromomethane	0.0068	0.0011	0.011	0	59.9	74	126				Q
Chloroethane	0.0088	0.0057	0.011	0	77.8	59	139				YZ
Chloroform	0.010	0.0011	0.011	0	90.2	78	123				
Chloromethane	0.010	0.0011	0.011	0	88.9	50	136				
cis-1,2-Dichloroethene	0.0099	0.0011	0.011	0	87.3	77	123				
cis-1,3-Dichloropropene	0.0074	0.0011	0.011	0	65.6	74	126				Q
Dichlorodifluoromethane [Freon-12]	0.010	0.0057	0.011	0	89.1	29	149				
Ethylbenzene	0.0098	0.0011	0.011	0	86.0	76	122				
Methylene chloride	0.012	0.0023	0.011	0	107	70	128				
Styrene	0.0081	0.0011	0.011	0	71.3	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID: **1606430-009CMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683544**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0097	0.0011	0.011	0	85.2	73	128				
Toluene	0.0094	0.0011	0.011	0	83.0	77	121				
trans-1,2-Dichloroethene	0.011	0.0011	0.011	0	93.1	74	125				
trans-1,3-Dichloropropene	0.0073	0.0011	0.011	0	64.4	71	130				Q
Trichloroethene	0.0096	0.0011	0.011	0	85.0	77	123				
Trichlorofluoromethane [Freon-11]	0.011	0.0011	0.011	0	94.2	62	140				
Vinyl acetate	0.0087	0.028	0.011	0	76.4	50	151				J
Vinyl chloride	0.010	0.00091	0.011	0	89.3	56	135				
Xylene (Total)	0.029	0.0034	0.034	0	86.5	78	124				
Surr: 4-Bromofluorobenzene	66		68.07		97.1	79	119				
Surr: Dibromofluoromethane	65		68.07		96.0	78	119				
Surr: Toluene-d8	64		68.07		94.0	85	116				

Sample ID: **1606430-009CMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683545**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0091	0.0011	0.011	0	80.6	78	125	0.0084	8.67	25	
1,1,1-Trichloroethane	0.0099	0.0011	0.011	0	87.7	73	130	0.0098	1.03	25	
1,1,2,2-Tetrachloroethane	0.011	0.0011	0.011	0	93.7	70	124	0.0099	7.42	25	
1,1,2-Trichloroethane	0.011	0.0011	0.011	0	95.5	78	121	0.010	4.17	25	
1,1-Dichloroethane	0.011	0.0011	0.011	0	95.0	76	125	0.010	3.21	25	
1,1-Dichloroethene	0.010	0.0011	0.011	0	90.8	70	131	0.010	1.67	25	
1,2,3-Trichloropropane	0.0092	0.0011	0.011	0	80.7	73	125	0.0086	6.00	25	
1,2-Dibromo-3-chloropropane	0.0078	0.0057	0.011	0	68.7	61	132	0.0066	17.1	25	
1,2-Dibromoethane	0.011	0.0011	0.011	0	99.3	78	122	0.011	5.80	25	
1,2-Dichloroethane	0.011	0.0011	0.011	0	101	73	128	0.011	8.07	25	
1,2-Dichloropropane	0.011	0.0011	0.011	0	92.9	76	123	0.010	4.29	25	
2-Butanone [MEK]	0.012	0.011	0.011	0	103	51	148	0.011	5.88	25	
2-Hexanone	0.0088	0.0023	0.011	0	77.5	53	145	0.0082	6.67	25	
Acetone	0.012	0.0057	0.011	0	105	36	164	0.011	4.78	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID: **1606430-009CMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683545**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.011	0.0011	0.011	0	93.3	77	121	0.010	3.27	25	
Bromodichloromethane	0.0082	0.0011	0.011	0	72.6	75	127	0.0079	4.65	25	Q
Bromoform	0.0067	0.0011	0.011	0	59.1	67	132	0.0062	7.92	25	QY
Carbon disulfide	0.0075	0.0011	0.011	0	66.0	63	132	0.0073	2.92	25	
Carbon tetrachloride	0.010	0.0011	0.011	0	88.0	70	135	0.0099	0.341	25	
Chlorobenzene	0.011	0.0011	0.011	0	93.9	79	120	0.010	5.25	25	
Chlorodibromomethane	0.0074	0.0011	0.011	0	65.0	74	126	0.0068	8.17	25	Q
Chloroethane	0.0076	0.0057	0.011	0	67.0	59	139	0.0088	14.9	25	YZ
Chloroform	0.011	0.0011	0.011	0	96.4	78	123	0.010	6.65	25	
Chloromethane	0.010	0.0011	0.011	0	92.1	50	136	0.010	3.54	25	
cis-1,2-Dichloroethene	0.010	0.0011	0.011	0	89.0	77	123	0.0099	1.93	25	
cis-1,3-Dichloropropene	0.0078	0.0011	0.011	0	68.7	74	126	0.0074	4.62	25	Q
Dichlorodifluoromethane [Freon-12]	0.0098	0.0057	0.011	0	86.6	29	149	0.010	2.85	25	
Ethylbenzene	0.010	0.0011	0.011	0	89.6	76	122	0.0098	4.10	25	
Methylene chloride	0.012	0.0023	0.011	0	109	70	128	0.012	1.94	25	
Styrene	0.0087	0.0011	0.011	0	76.5	76	124	0.0081	7.04	25	
Tetrachloroethene	0.010	0.0011	0.011	0	88.7	73	128	0.0097	4.03	25	
Toluene	0.0096	0.0011	0.011	0	85.0	77	121	0.0094	2.38	25	
trans-1,2-Dichloroethene	0.011	0.0011	0.011	0	96.0	74	125	0.011	3.07	25	
trans-1,3-Dichloropropene	0.0078	0.0011	0.011	0	69.1	71	130	0.0073	7.04	25	Q
Trichloroethene	0.0096	0.0011	0.011	0	84.9	77	123	0.0096	0.118	25	
Trichlorofluoromethane [Freon-11]	0.011	0.0011	0.011	0	93.5	62	140	0.011	0.746	25	
Vinyl acetate	0.0095	0.028	0.011	0	83.6	50	151	0.0087	9.00	25	J
Vinyl chloride	0.011	0.00091	0.011	0	92.6	56	135	0.010	3.63	25	
Xylene (Total)	0.031	0.0034	0.034	0	90.2	78	124	0.029	4.19	25	
Surr: 4-Bromofluorobenzene	68		68.07		99.2	79	119		0	25	
Surr: Dibromofluoromethane	65		68.07		95.6	78	119		0	25	
Surr: Toluene-d8	65		68.07		95.2	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID: **1606467-004BMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683546**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0094	0.0012	0.012	0	79.5	78	125				
1,1,1-Trichloroethane	0.011	0.0012	0.012	0	92.1	73	130				
1,1,2,2-Tetrachloroethane	0.012	0.0012	0.012	0	101	70	124				
1,1,2-Trichloroethane	0.011	0.0012	0.012	0	93.4	78	121				
1,1-Dichloroethane	0.011	0.0012	0.012	0	94.1	76	125				
1,1-Dichloroethene	0.011	0.0012	0.012	0	92.8	70	131				
1,2,3-Trichloropropane	0.0099	0.0012	0.012	0	83.0	73	125				
1,2-Dibromo-3-chloropropane	0.0088	0.0059	0.012	0	73.9	61	132				
1,2-Dibromoethane	0.011	0.0012	0.012	0	95.0	78	122				
1,2-Dichloroethane	0.012	0.0012	0.012	0	97.8	73	128				
1,2-Dichloropropane	0.011	0.0012	0.012	0	93.9	76	123				
2-Butanone [MEK]	0.0099	0.012	0.012	0	83.4	51	148				J
2-Hexanone	0.0098	0.0024	0.012	0	82.4	53	145				
Acetone	0.013	0.0059	0.012	0	114	36	164				
Benzene	0.011	0.0012	0.012	0	92.9	77	121				
Bromodichloromethane	0.0090	0.0012	0.012	0	75.7	75	127				
Bromoform	0.0073	0.0012	0.012	0	61.4	67	132				QY
Carbon disulfide	0.0092	0.0012	0.012	0	77.7	63	132				
Carbon tetrachloride	0.011	0.0012	0.012	0	93.9	70	135				
Chlorobenzene	0.011	0.0012	0.012	0	92.3	79	120				
Chlorodibromomethane	0.0080	0.0012	0.012	0	67.7	74	126				Q
Chloroethane	0.026	0.0059	0.012	0	218	59	139				QYZ
Chloroform	0.011	0.0012	0.012	0	96.0	78	123				
Chloromethane	0.013	0.0012	0.012	0	108	50	136				
cis-1,2-Dichloroethene	0.011	0.0012	0.012	0	89.9	77	123				
cis-1,3-Dichloropropene	0.0081	0.0012	0.012	0	68.3	74	126				Q
Dichlorodifluoromethane [Freon-12]	0.012	0.0059	0.012	0	103	29	149				
Ethylbenzene	0.011	0.0012	0.012	0	89.4	76	122				
Methylene chloride	0.013	0.0024	0.012	0.10	-770	70	128				Q
Styrene	0.0087	0.0012	0.012	0	73.5	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID: **1606467-004BMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683546**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.011	0.0012	0.012	0	88.8	73	128				
Toluene	0.010	0.0012	0.012	0	83.9	77	121				
trans-1,2-Dichloroethene	0.011	0.0012	0.012	0	96.2	74	125				
trans-1,3-Dichloropropene	0.0078	0.0012	0.012	0	65.8	71	130				Q
Trichloroethene	0.011	0.0012	0.012	0	88.5	77	123				
Trichlorofluoromethane [Freon-11]	0.012	0.0012	0.012	0	97.0	62	140				
Vinyl acetate	0.0026	0.030	0.012	0	21.5	50	151				JQ
Vinyl chloride	0.014	0.00095	0.012	0	115	56	135				
Xylene (Total)	0.032	0.0036	0.036	0	89.0	78	124				
Surr: 4-Bromofluorobenzene	71		71.26		100	79	119				
Surr: Dibromofluoromethane	69		71.26		97.4	78	119				
Surr: Toluene-d8	68		71.26		94.9	85	116				

Sample ID: **1606467-004BMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683547**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0091	0.0012	0.012	0	76.7	78	125	0.0094	3.59	25	Q
1,1,1-Trichloroethane	0.010	0.0012	0.012	0	88.2	73	130	0.011	4.33	25	
1,1,2,2-Tetrachloroethane	0.011	0.0012	0.012	0	94.1	70	124	0.012	6.78	25	
1,1,2-Trichloroethane	0.011	0.0012	0.012	0	89.5	78	121	0.011	4.26	25	
1,1-Dichloroethane	0.011	0.0012	0.012	0	92.3	76	125	0.011	1.93	25	
1,1-Dichloroethene	0.011	0.0012	0.012	0	90.6	70	131	0.011	2.40	25	
1,2,3-Trichloropropane	0.011	0.0012	0.012	0	91.4	73	125	0.0099	9.63	25	
1,2-Dibromo-3-chloropropane	0.0080	0.0059	0.012	0	67.6	61	132	0.0088	8.90	25	
1,2-Dibromoethane	0.011	0.0012	0.012	0	92.8	78	122	0.011	2.34	25	
1,2-Dichloroethane	0.012	0.0012	0.012	0	96.9	73	128	0.012	0.924	25	
1,2-Dichloropropane	0.011	0.0012	0.012	0	88.9	76	123	0.011	5.47	25	
2-Butanone [MEK]	0.0099	0.012	0.012	0	83.0	51	148	0.0099	0.481	25	J
2-Hexanone	0.0092	0.0024	0.012	0	77.3	53	145	0.0098	6.39	25	
Acetone	0.013	0.0059	0.012	0	107	36	164	0.013	6.36	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID: **1606467-004BMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683547**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.011	0.0012	0.012	0	90.4	77	121	0.011	2.73	25	
Bromodichloromethane	0.0089	0.0012	0.012	0	75.1	75	127	0.0090	0.796	25	
Bromoform	0.0073	0.0012	0.012	0	61.1	67	132	0.0073	0.490	25	QY
Carbon disulfide	0.0088	0.0012	0.012	0	74.1	63	132	0.0092	4.74	25	
Carbon tetrachloride	0.011	0.0012	0.012	0	94.1	70	135	0.011	0.213	25	
Chlorobenzene	0.011	0.0012	0.012	0	89.0	79	120	0.011	3.64	25	
Chlorodibromomethane	0.0080	0.0012	0.012	0	67.3	74	126	0.0080	0.593	25	Q
Chloroethane	0.024	0.0059	0.012	0	206	59	139	0.026	6.04	25	QYZ
Chloroform	0.011	0.0012	0.012	0	91.6	78	123	0.011	4.69	25	
Chloromethane	0.012	0.0012	0.012	0	102	50	136	0.013	6.01	25	
cis-1,2-Dichloroethene	0.010	0.0012	0.012	0	87.2	77	123	0.011	3.05	25	
cis-1,3-Dichloropropene	0.0077	0.0012	0.012	0	64.9	74	126	0.0081	5.11	25	Q
Dichlorodifluoromethane [Freon-12]	0.011	0.0059	0.012	0	96.6	29	149	0.012	6.32	25	
Ethylbenzene	0.010	0.0012	0.012	0	85.5	76	122	0.011	4.46	25	
Methylene chloride	0.012	0.0024	0.012	0.10	-773	70	128	0.013	2.82	25	Q
Styrene	0.0084	0.0012	0.012	0	70.9	76	124	0.0087	3.60	25	Q
Tetrachloroethene	0.010	0.0012	0.012	0	84.2	73	128	0.011	5.32	25	
Toluene	0.0095	0.0012	0.012	0	80.4	77	121	0.010	4.26	25	
trans-1,2-Dichloroethene	0.011	0.0012	0.012	0	93.5	74	125	0.011	2.85	25	
trans-1,3-Dichloropropene	0.0076	0.0012	0.012	0	64.1	71	130	0.0078	2.62	25	Q
Trichloroethene	0.010	0.0012	0.012	0	83.9	77	123	0.011	5.34	25	
Trichlorofluoromethane [Freon-11]	0.012	0.0012	0.012	0	97.4	62	140	0.012	0.412	25	
Vinyl acetate	0.0025	0.030	0.012	0	21.1	50	151	0.0026	1.88	25	JQ
Vinyl chloride	0.013	0.00095	0.012	0	111	56	135	0.014	3.10	25	
Xylene (Total)	0.030	0.0036	0.036	0	85.1	78	124	0.032	4.48	25	
Surr: 4-Bromofluorobenzene	71		71.26		99.2	79	119		0	25	
Surr: Dibromofluoromethane	71		71.26		99.0	78	119		0	25	
Surr: Toluene-d8	67		71.26		94.4	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	VOA11B LCS 06201	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	LCSS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.41	0.050	0.50	0	81.4	78	125				
1,1,1-Trichloroethane	0.47	0.050	0.50	0	94.3	73	130				
1,1,2,2-Tetrachloroethane	0.46	0.050	0.50	0	92.4	70	124				
1,1,2-Trichloroethane	0.46	0.050	0.50	0	92.2	78	121				
1,1-Dichloroethane	0.46	0.050	0.50	0	91.8	76	125				
1,1-Dichloroethene	0.47	0.050	0.50	0	93.0	70	131				
1,2,3-Trichloropropane	0.48	0.050	0.50	0	96.1	73	125				
1,2-Dibromo-3-chloropropane	0.46	0.25	0.50	0	92.3	61	132				
1,2-Dibromoethane	0.50	0.050	0.50	0	99.3	78	122				
1,2-Dichloroethane	0.50	0.050	0.50	0	101	73	128				
1,2-Dichloropropane	0.45	0.050	0.50	0	90.3	76	123				
2-Butanone [MEK]	0.42	0.50	0.50	0	85.0	51	148				J
2-Hexanone	0.39	0.10	0.50	0	77.4	53	145				
Acetone	0.49	0.25	0.50	0	97.9	36	164				
Benzene	0.44	0.050	0.50	0	87.8	77	121				
Bromodichloromethane	0.40	0.050	0.50	0	80.7	75	127				
Bromoform	0.33	0.050	0.50	0	65.5	67	132				Q
Carbon disulfide	0.37	0.050	0.50	0	74.7	63	132				
Carbon tetrachloride	0.52	0.050	0.50	0	104	70	135				Y
Chlorobenzene	0.45	0.050	0.50	0	90.2	79	120				
Chlorodibromomethane	0.38	0.050	0.50	0	75.0	74	126				
Chloroethane	0.64	0.25	0.50	0	127	59	139				YZ
Chloroform	0.47	0.050	0.50	0	94.8	78	123				
Chloromethane	0.41	0.050	0.50	0	81.8	50	136				
cis-1,2-Dichloroethene	0.48	0.050	0.50	0	95.2	77	123				
cis-1,3-Dichloropropene	0.40	0.050	0.50	0	79.6	74	126				
Dichlorodifluoromethane [Freon-12]	0.47	0.25	0.50	0	93.2	29	149				
Ethylbenzene	0.45	0.050	0.50	0	89.3	76	122				
Methylene chloride	0.55	0.10	0.50	0	110	70	128				
Styrene	0.38	0.050	0.50	0	76.8	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	VOA11B LCS 06201	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	LCSS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.46	0.050	0.50	0	92.4	73	128				
Toluene	0.42	0.050	0.50	0	84.5	77	121				
trans-1,2-Dichloroethene	0.47	0.050	0.50	0	94.8	74	125				
trans-1,3-Dichloropropene	0.40	0.050	0.50	0	79.0	71	130				
Trichloroethene	0.45	0.050	0.50	0	90.1	77	123				
Trichlorofluoromethane [Freon-11]	0.43	0.050	0.50	0	85.6	62	140				
Vinyl acetate	0.47	1.2	0.50	0	93.4	50	151				J
Vinyl chloride	0.40	0.040	0.50	0	79.1	56	135				
Xylene (Total)	1.4	0.15	1.5	0	91.1	78	124				
Surr: 4-Bromofluorobenzene	3,000		3,000		101	79	119				
Surr: Dibromofluoromethane	2,900		3,000		95.2	78	119				
Surr: Toluene-d8	2,800		3,000		94.3	85	116				

Sample ID:	VOA11B MBLK 0620	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	PBS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683821

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.030	0.050									U
1,1,1-Trichloroethane	0.030	0.050									U
1,1,2,2-Tetrachloroethane	0.030	0.050									U
1,1,2-Trichloroethane	0.030	0.050									U
1,1-Dichloroethane	0.030	0.050									U
1,1-Dichloroethene	0.030	0.050									U
1,2,3-Trichloropropane	0.030	0.050									U
1,2-Dibromo-3-chloropropane	0.10	0.25									U
1,2-Dibromoethane	0.030	0.050									U
1,2-Dichloroethane	0.030	0.050									U
1,2-Dichloropropane	0.030	0.050									U
2-Butanone [MEK]	0.25	0.50									U
2-Hexanone	0.050	0.10									U
Acetone	0.10	0.25									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86786**

Sample ID:	**VOA11B MBLK 0620**	Samp Type:	**MBLK**	Test Code:	**SW_8260S**	Units:	**mg/Kg**	Prep Date:	**6/20/2016**	RunNo:	**86786**
Client ID:	**PBS**	Batch ID:	**R86786**	TestNo:	**SW8260B**			Analysis Date:	**6/20/2016**	SeqNo:	**1683821**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.030	0.050									U
Bromodichloromethane	0.030	0.050									U
Bromoform	0.030	0.050									U
Carbon disulfide	0.030	0.050									U
Carbon tetrachloride	0.030	0.050									UY
Chlorobenzene	0.030	0.050									U
Chlorodibromomethane	0.030	0.050									U
Chloroethane	0.10	0.25									UYZ
Chloroform	0.030	0.050									U
Chloromethane	0.030	0.050									U
cis-1,2-Dichloroethene	0.030	0.050									U
cis-1,3-Dichloropropene	0.030	0.050									U
Dichlorodifluoromethane [Freon-12]	0.10	0.25									U
Ethylbenzene	0.030	0.050									U
Methylene chloride	0.050	0.10									U
Styrene	0.030	0.050									U
Tetrachloroethene	0.030	0.050									U
Toluene	0.030	0.050									U
trans-1,2-Dichloroethene	0.030	0.050									U
trans-1,3-Dichloropropene	0.030	0.050									U
Trichloroethene	0.030	0.050									U
Trichlorofluoromethane [Freon-11]	0.030	0.050									U
Vinyl acetate	0.030	1.2									U
Vinyl chloride	0.030	0.040									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,400		2,500		94.5	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.3	78	119				
Surr: Toluene-d8	2,200		2,500		88.7	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	1606522-007AMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684059

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.40	0.050	0.50	0	80.0	78	125				
1,1,1-Trichloroethane	0.48	0.050	0.50	0	95.7	73	130				
1,1,2,2-Tetrachloroethane	0.47	0.050	0.50	0	94.4	70	124				
1,1,2-Trichloroethane	0.47	0.050	0.50	0	94.7	78	121				
1,1-Dichloroethane	0.46	0.050	0.50	0	92.5	76	125				
1,1-Dichloroethene	0.47	0.050	0.50	0	93.1	70	131				
1,2,3-Trichloropropane	0.50	0.050	0.50	0	99.2	73	125				
1,2-Dibromo-3-chloropropane	0.35	0.25	0.50	0	70.1	61	132				
1,2-Dibromoethane	0.49	0.050	0.50	0	97.0	78	122				
1,2-Dichloroethane	0.53	0.050	0.50	0	105	73	128				
1,2-Dichloropropane	0.43	0.050	0.50	0	86.4	76	123				
2-Butanone [MEK]	0.44	0.50	0.50	0	88.7	51	148				J
2-Hexanone	0.40	0.10	0.50	0	80.7	53	145				
Acetone	0.51	0.25	0.50	0	102	36	164				
Benzene	0.44	0.050	0.50	0	88.3	77	121				
Bromodichloromethane	0.39	0.050	0.50	0	78.4	75	127				
Bromoform	0.35	0.050	0.50	0	69.6	67	132				
Carbon disulfide	0.38	0.050	0.50	0	75.3	63	132				
Carbon tetrachloride	0.51	0.050	0.50	0	102	70	135				Y
Chlorobenzene	0.44	0.050	0.50	0	89.0	79	120				
Chlorodibromomethane	0.35	0.050	0.50	0	69.6	74	126				Q
Chloroethane	0.93	0.25	0.50	0	186	59	139				QYZ
Chloroform	0.49	0.050	0.50	0	98.0	78	123				
Chloromethane	0.43	0.050	0.50	0	86.3	50	136				
cis-1,2-Dichloroethene	0.44	0.050	0.50	0	88.9	77	123				
cis-1,3-Dichloropropene	0.35	0.050	0.50	0	69.8	74	126				Q
Dichlorodifluoromethane [Freon-12]	0.50	0.25	0.50	0	101	29	149				
Ethylbenzene	0.42	0.050	0.50	0	84.1	76	122				
Methylene chloride	0.52	0.10	0.50	0.042	95.7	70	128				
Styrene	0.38	0.050	0.50	0	75.6	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID: **1606522-007AMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg** Prep Date: **6/20/2016** RunNo: **86786**

Client ID: **ZZZZZZ** Batch ID: **R86786** TestNo: **SW8260B** Analysis Date: **6/20/2016** SeqNo: **1684059**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.44	0.050	0.50	0	88.2	73	128				
Toluene	0.41	0.050	0.50	0	82.0	77	121				
trans-1,2-Dichloroethene	0.48	0.050	0.50	0	95.3	74	125				
trans-1,3-Dichloropropene	0.37	0.050	0.50	0	73.8	71	130				
Trichloroethene	0.44	0.050	0.50	0	87.9	77	123				
Trichlorofluoromethane [Freon-11]	0.46	0.050	0.50	0	91.1	62	140				
Vinyl acetate	0.48	1.2	0.50	0	96.0	50	151				J
Vinyl chloride	0.44	0.040	0.50	0	88.7	56	135				
Xylene (Total)	1.3	0.15	1.5	0	86.7	78	124				
Surr: 4-Bromofluorobenzene	3,100		3,000		104	79	119				
Surr: Dibromofluoromethane	3,000		3,000		101	78	119				
Surr: Toluene-d8	2,800		3,000		94.6	85	116				

Sample ID: **1606522-007AMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg** Prep Date: **6/20/2016** RunNo: **86786**

Client ID: **ZZZZZZ** Batch ID: **R86786** TestNo: **SW8260B** Analysis Date: **6/20/2016** SeqNo: **1684060**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.41	0.050	0.50	0	82.5	78	125	0.40	3.08	25	
1,1,1-Trichloroethane	0.49	0.050	0.50	0	97.8	73	130	0.48	2.17	25	
1,1,2,2-Tetrachloroethane	0.50	0.050	0.50	0	99.9	70	124	0.47	5.66	25	
1,1,2-Trichloroethane	0.46	0.050	0.50	0	92.1	78	121	0.47	2.78	25	
1,1-Dichloroethane	0.47	0.050	0.50	0	93.6	76	125	0.46	1.18	25	
1,1-Dichloroethene	0.46	0.050	0.50	0	91.6	70	131	0.47	1.62	25	
1,2,3-Trichloropropane	0.49	0.050	0.50	0	98.9	73	125	0.50	0.303	25	
1,2-Dibromo-3-chloropropane	0.41	0.25	0.50	0	82.3	61	132	0.35	16.0	25	
1,2-Dibromoethane	0.51	0.050	0.50	0	102	78	122	0.49	4.63	25	
1,2-Dichloroethane	0.52	0.050	0.50	0	103	73	128	0.53	2.11	25	
1,2-Dichloropropane	0.44	0.050	0.50	0	88.3	76	123	0.43	2.18	25	
2-Butanone [MEK]	0.47	0.50	0.50	0	94.2	51	148	0.44	6.01	25	J
2-Hexanone	0.44	0.10	0.50	0	88.5	53	145	0.40	9.22	25	
Acetone	0.55	0.25	0.50	0	110	36	164	0.51	7.35	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	1606522-007AMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684060

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.44	0.050	0.50	0	87.2	77	121	0.44	1.25	25	
Bromodichloromethane	0.39	0.050	0.50	0	77.8	75	127	0.39	0.768	25	
Bromoform	0.35	0.050	0.50	0	69.7	67	132	0.35	0.144	25	
Carbon disulfide	0.36	0.050	0.50	0	73.0	63	132	0.38	3.10	25	
Carbon tetrachloride	0.52	0.050	0.50	0	104	70	135	0.51	1.36	25	Y
Chlorobenzene	0.44	0.050	0.50	0	87.4	79	120	0.44	1.81	25	
Chlorodibromomethane	0.37	0.050	0.50	0	74.6	74	126	0.35	6.93	25	
Chloroethane	0.91	0.25	0.50	0	181	59	139	0.93	2.77	25	QYZ
Chloroform	0.48	0.050	0.50	0	95.2	78	123	0.49	2.90	25	
Chloromethane	0.42	0.050	0.50	0	83.9	50	136	0.43	2.82	25	
cis-1,2-Dichloroethene	0.45	0.050	0.50	0	90.6	77	123	0.44	1.89	25	
cis-1,3-Dichloropropene	0.36	0.050	0.50	0	72.4	74	126	0.35	3.66	25	Q
Dichlorodifluoromethane [Freon-12]	0.49	0.25	0.50	0	97.6	29	149	0.50	3.23	25	
Ethylbenzene	0.42	0.050	0.50	0	84.9	76	122	0.42	0.947	25	
Methylene chloride	0.53	0.10	0.50	0.042	98.2	70	128	0.52	2.38	25	
Styrene	0.37	0.050	0.50	0	73.2	76	124	0.38	3.23	25	Q
Tetrachloroethene	0.44	0.050	0.50	0	88.3	73	128	0.44	0.113	25	
Toluene	0.41	0.050	0.50	0	81.1	77	121	0.41	1.10	25	
trans-1,2-Dichloroethene	0.48	0.050	0.50	0	95.8	74	125	0.48	0.523	25	
trans-1,3-Dichloropropene	0.38	0.050	0.50	0	75.1	71	130	0.37	1.75	25	
Trichloroethene	0.43	0.050	0.50	0	86.9	77	123	0.44	1.14	25	
Trichlorofluoromethane [Freon-11]	0.47	0.050	0.50	0	93.5	62	140	0.46	2.60	25	
Vinyl acetate	0.51	1.2	0.50	0	101	50	151	0.48	5.47	25	J
Vinyl chloride	0.44	0.040	0.50	0	87.5	56	135	0.44	1.36	25	
Xylene (Total)	1.3	0.15	1.5	0	86.7	78	124	1.3	0.0385	25	
Surr: 4-Bromofluorobenzene	3,100		3,000		104	79	119		0	25	
Surr: Dibromofluoromethane	3,100		3,000		102	78	119		0	25	
Surr: Toluene-d8	2,800		3,000		93.8	85	116		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606293

Date Reported: 8/25/2016
Revision v3

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606293

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060816-01
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1 Field QC	-	-	TB	1	TB-SO-060716-01	06/07/16	0850	WQ	3	001	3											
2 H20-SS01	00	01	N	1	H20-SS01-01	06/07/16	1015	SS	5		4			1								matrix codes on labels may be incorrect. use COC matrix codes
3 ↓	01	02	N	1	H20-SS01-02		1020	SO	5		4			1								
4 H20-SS02	00	01	N	1	H20-SS02-01		1025	SS	5		4			1								
5 ↓	01	02	N	1	H20-SS02-02		1050	SO	5		4			1								
6 ↓	01	02	MS	1	H20-SS02-02MS		1050	SO	5		4			1								
7 ↓	01	02	SD	1	H20-SS02-02MSD		1050	SO	5		4			1								
7 H3-SS01	00	01	N	1	H3-SS01-01		0910	SS	5		4			1								
8 ↓	01	02	N	1	H3-SS01-02		0915	SO	5		4			1								
9 H3-SS02	00	01	N	1	H3-SS02-01		0920	SS	5		4			0								Rec'd Empty
10 ↓	01	02	N	1	H3-SS02-02	↓	0925	SO	5	↓	4			1								

DM 06/07/16

1. Relinquished By / Company: Amanda Martin	Date: 06/08/16	Time: 1030	1. Received By / Company: Transfer to FedEx	Date: 06/08/16	Time: 1030
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: RTI Labs	Date: 6-9-16	Time: 10:00

Comments

Shipment Method/Airbill No.: 8103 0202 6107

SOIL SAMPLES

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

D9-91

1606293

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	060816-02
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
2	H20-SS01	00	01	N	1	H20-SS01-01	06/07/16	1015	SS	3	002					1			1	1			matrix: SS
3	↓	01	02	N	1	H20-SS01-02		1020	SO	3						1			1	1			
4	H20-SS02	00	01	N	1	H20-SS02-01		1025	SS	3						1			1	1			
5		01	02	N	1	H20-SS02-02		1050	SO	3						1			1	1			
5		01	02	MS	1	H20-SS02-02MS		1050	SO	3						1			1	1			
5	↓	01	02	SD	1	H20-SS02-02MSD	↓	1050	SO	3	↓					1			1	1			
6	H9-SS01	00	01	N	1	H9-SS01-01	06/06/16	1415	SS	2								1		1			
7	H3-SS01	00	01	N	1	H3-SS01-01	06/07/16	0910	SS	3						X			X	X			
8	↓	01	02	N	1	H3-SS01-02		0915	SO	3						X			X	X			
9	H3-SS02	00	01	N	1	H3-SS02-01		0920	SS	3						X			X	X			
10	↓	01	02	N	1	H3-SS02-02	↓	0925	SO	3	↓					X			X	X			

06/07/16

		Date	Time			Date	Time
1. Relinquished By / Company	Amanda Martin AECOM	06/08/16	1130	1. Received By / Company	Courier to FedEx	06/08/16	1130
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	/ RTI Labs	6/9/16	10:00

Comments

Shipment Method/Airbill No. 8105 0202 6092

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

#002

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606293

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060816-03
Batch May16

	Database Information					Other Sample Information					Analysis											
	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
11	Field QC	—	—	TB	1	TB-SO-060716-02	06/07/16	0900	WQ	3	003	3											
12	H12-SB01	04	05	N	1	H12-SB01-05	~~TB~~	1300	SO	5		4			1								
13	H12-SB01	00	01	N	1	H12-SS01-01		1250	SS	5		4			1								
14	WDS-SB21	04	05	N	1	WDS-SB21-05		1605	SO	5		4			1								
15	WDS-SB22	04	05	N	1	WDS-SB22-05		1535	SO	5		4			1								
16	WDS-SB23	04	05	N	1	WDS-SB23-05		1430	SO	5		4			1								
17	WDS-SB24	03	04	N	1	WDS-SB24-04		1410	SO	5		4			1								
18	WDS-SB25	07	08	N	1	WDS-SB25-08		1550	SO	5		4			1								
19	WDS-SB26	04	05	N	1	WDS-SB26-05		1620	SO	5		4			1								
20	WDS-SB27	07	08	N	1	WDS-SB27-08		1505	SO	5		4			1								
21	WDS-SB27	07	08	FD	1	WDS-SB27-08DUP		1505	SO	5		4			1								

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
AECOM	06/08/16	1630	Transfer to Fedex	06/08/16	1630
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			RTI	6-9-16	10:00
3. Relinquished By / Company	Date	Time	3. Received By / RTI Labs	Date	Time
				6/9/16	10:10

Comments: VOCs only (+ % moisture)

Shipment Method/Airbill No.: 8103 0202 6081

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

8103 0202 6060

HVLI 76

Chain of Custody

1606293

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060816-04
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
HII-SB01	00	01	N	1	HII-SS01-01	04/07/16	1330	SS	3	004							1	1	1			
HII-SB01	03	04	N	1	HII-SB01-04		1340	SO	3								1	1	1			
HII-SB02	00	01	N	1	HII-SS02-01		1250	SS	3								1	1	1			
HII-SB02	03	04	N	1	HII-SB02-04		1300	SO	3								1	1	1			
HII-SB02	05	06	N	1	HII-SB02-06		1310	SO	3								1	1	1			LOCID: HII-SB02
HI2-SB01	00	01	N	1	HI2-SS01-01		1250	SS	3								1	1	1			
HI2-SB01	04	05	N	1	HI2-SB01-05		1300	SO	3								1	1	1			ID: HI2-SB01-0
WDS-SB21	04	05	N	1	WDS-SB21-05		1605	SO	3								1	1	1			
~~WDS-SB22~~																						
~~WDS-SB23~~																						
~~WDS-SB24~~																						

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
Amanda Martin AECOM	04/08/16	1620	Transfer to FedEx	04/08/16	1630
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time
			RTI Labs	10-9-16	10:00

Comments: non-VOC samples

Shipment Method/Airbill No.: 8105 0282 6070

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

HI2-SB01-01 → #13 ; HI2-SB01-05 → #12
HII-SB01/SB02 [illegible] 1606293

Subject: Fwd: RE: Camp Hero - COCs
From: Kathy Griffin <kgriffin@rtilab.com>
Date: 6/9/2016 2:45 PM
To: Armando Flores <aflores@rtilab.com>

-------- Forwarded Message --------
Subject:RE: Camp Hero - COCs
Date: Thu, 9 Jun 2016 16:27:55 +0000
From: Martin, Amanda (Arlington) <Amanda.Martin@aecom.com>
To: Kathy Griffin <kgriffin@rtilab.com>
CC: Chicoine, Devon <Devon.Chicoine@aecom.com>, Priess, Kathryn <Kathryn.Priess@aecom.com>

Hi Kathy,

The analyses for H3-SS001 and H3-SS02 are VOCs, SVOCS-PNA, PBCs,and metals.

Regarding the Terra core kits, I told the field team to NOT put any tape or labels on the vials at the beginning of the event. I just sent a message reminding all of them of the issue. I tried to QC all the samples but must have missed those two in the rush to get to FedEx on time.

Thanks
Amanda

Amanda Martin
Environmental Engineer II
AECOM Design and Consulting Services (DCS)
D +1-703-399-3953
Internal Cisco Direct 1603953
amanda.martin@aecom.com

AECOM
3101 Wilson Boulevard, Suite 900
Arlington, VA 22201, USA
T+1-703-682-4900 F +1-703-682-4901
www.aecom.com

Built to deliver a better world

-------- Original message --------
From: Kathy Griffin <kgriffin@rtilab.com>
Date: 6/9/16 12:06 PM (GMT-05:00)
To: "Martin, Amanda (Arlington)" <Amanda.Martin@aecom.com>
Cc: "Chicoine, Devon" <Devon.Chicoine@aecom.com>, "Priess, Kathryn" <Kathryn.Priess@aecom.com>

Cooler: DP-91

Temp Blank: 2.8°C on ice

Cooler: #002

Temp Blank: 2.8°C on ice

Outside Cooler label #003

CUSTODY SEAL
DATE 06/08/2016
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Inside Cooler ~~tab~~ ID: HVL176
FedEx tracking# 810302026060
Cooler temp Blank: 3.0°C

CUSTODY SEAL
DATE 06/08/2016
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Outside Label #004
Cooler ID: J713

Cooler Temp Blank 3.6°C

6070

FedEx 0215 8103 0202 6070
THU - 09 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 48251 08JUN16 WSHA 539C2/308D/6A08

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606306

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606306-001A	H11-SB02-GW		6/7/2016 6:00 PM	6/9/2016 10:00 AM	Groundwater
1606306-001B	H11-SB02-GW		6/7/2016 6:00 PM	6/9/2016 10:00 AM	Groundwater
1606306-001C	H11-SB02-GW		6/7/2016 6:00 PM	6/9/2016 10:00 AM	Groundwater

RTI Laboratories - Case Narrative

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Metals, ICP/MS - 6020
Silver and/or Antimony, ICP/MS - 6020A-SA
Polychlorinated Biphenyls - 8082A
Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 86795, Batch ID 40121:
Sample 1606306-001A: Surrogate recovery for Nitrobenzene-d5 was outside the control limits.
Sample MB-40121: Surrogate recoveries for 2-Fluorobiphenyl and Nitrobenzene-d5 were outside the control limits.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87530, Batch ID 40121:
Sample LCSD-40121: RPD for Benzo(k)fluoranthene was outside the control limits.

Analytical Comments for Test SW_6020A, Analytical Run No 87545, Batch ID 40174:
Samples 1606387-005D MS/MSD: Spike recoveries for several analytes were outside the control limits.

Analytical Comments for Test SW_8082A, Analytical Run No 87006, Batch ID 40212:
Samples 1606387-005C MS/MSD: Surrogate recovery for Decachlorobiphenyl was outside the control limits.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87615, Batch ID87615:
Sample CCVE SIM 062716S7, Batch ID R87615 : Ending CCV results for Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Dibenz (a,h)anthracene and Indeno(1,2,3-cd)pyrene exceeded the 50% criteria.

RTI Laboratories - Analytical Report

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/7/2016 6:00:00 PM
Project: Camp Hero
Lab ID: 1606306-001 **Matrix:** Groundwater
Client Sample ID: H11-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.039	U	0.031	0.039	0.098	µg/L	1	6/24/2016 7:09 PM
Aroclor 1221	0.039	U	0.029	0.039	0.098	µg/L	1	6/24/2016 7:09 PM
Aroclor 1232	0.040	U	0.040	0.040	0.20	µg/L	1	6/24/2016 7:09 PM
Aroclor 1242	0.039	U	0.036	0.039	0.20	µg/L	1	6/24/2016 7:09 PM
Aroclor 1248	0.039	U	0.030	0.039	0.098	µg/L	1	6/24/2016 7:09 PM
Aroclor 1254	0.039	U	0.039	0.039	0.20	µg/L	1	6/24/2016 7:09 PM
Aroclor 1260	0.039	U	0.034	0.039	0.20	µg/L	1	6/24/2016 7:09 PM
Aroclor 1262	0.098	U	0.050	0.098	0.20	µg/L	1	6/24/2016 7:09 PM
Aroclor 1268	0.039	U	0.027	0.039	0.098	µg/L	1	6/24/2016 7:09 PM
Surr: Tetrachloro-m-xylene	58.6			40-135		%Rec	1	6/24/2016 7:09 PM
Surr: Decachlorobiphenyl	62.4			40-135		%Rec	1	6/24/2016 7:09 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	10,000		28	50	1,000	µg/L	100	7/25/2016 5:45 PM
Arsenic	2.7	G	0.61	1.0	1.5	µg/L	5	7/25/2016 1:50 PM
Barium	64		0.18	0.50	25	µg/L	5	7/25/2016 1:50 PM
Beryllium	10	U	5.0	10	20	µg/L	100	7/25/2016 5:45 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/25/2016 1:50 PM
Calcium	45,000		90	120	1,000	µg/L	5	7/25/2016 1:50 PM
Chromium	17	G	0.30	0.50	10	µg/L	5	7/25/2016 1:50 PM
Cobalt	8.2		0.12	0.50	5.0	µg/L	5	7/25/2016 1:50 PM
Copper	7.0		0.24	0.50	5.0	µg/L	5	7/25/2016 1:50 PM
Iron	50,000		950	2,500	4,000	µg/L	100	7/25/2016 4:08 PM
Lead	7.3		0.24	0.50	1.0	µg/L	5	7/25/2016 1:50 PM
Magnesium	7,300		41	120	500	µg/L	5	7/25/2016 1:50 PM
Manganese	2,100		0.26	0.50	5.0	µg/L	5	7/25/2016 1:50 PM
Nickel	7.5	J	0.20	0.50	10	µg/L	5	7/25/2016 1:50 PM
Potassium	10,000		110	120	500	µg/L	5	7/25/2016 1:50 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/25/2016 1:50 PM
Sodium	9,600	J	1,200	2,500	10,000	µg/L	100	7/25/2016 5:45 PM
Thallium	0.50	U	0.16	0.50	2.0	µg/L	5	7/25/2016 1:50 PM
Vanadium	25		0.49	0.50	4.0	µg/L	5	7/25/2016 1:50 PM
Zinc	22	J	1.8	2.5	50	µg/L	5	7/25/2016 1:50 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.75	UG	0.19	0.75	2.5	µg/L	5	6/16/2016 12:06 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	6/16/2016 12:06 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: MB**
1-Methylnaphthalene	5.1		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
2-Methylnaphthalene	5.3		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
Acenaphthene	4.5		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
Acenaphthylene	1.8		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM

RTI Laboratories - Analytical Report

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/7/2016 6:00:00 PM
Project:	Camp Hero		
Lab ID:	1606306-001	**Matrix:**	Groundwater
Client Sample ID:	H11-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	5.8		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
Benz(a)anthracene	27		0.97	0.97	0.97	µg/L	50	6/24/2016 7:25 PM
Benzo(a)pyrene	20		0.97	0.97	0.97	µg/L	50	6/24/2016 7:25 PM
Benzo(b)fluoranthene	30		0.97	0.97	0.97	µg/L	50	6/24/2016 7:25 PM
Benzo(g,h,i)perylene	14		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
Benzo(k)fluoranthene	8.0		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
Chrysene	18		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
Dibenzo(a,h)anthracene	4.1		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
Fluoranthene	42		0.97	0.97	0.97	µg/L	50	6/24/2016 7:25 PM
Fluorene	6.7		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
Indeno(1,2,3-cd)pyrene	13		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
Naphthalene	3.9		0.39	0.39	0.39	µg/L	20	6/20/2016 6:24 PM
Phenanthrene	28		0.97	0.97	0.97	µg/L	50	6/24/2016 7:25 PM
Pyrene	39		0.97	0.97	0.97	µg/L	50	6/24/2016 7:25 PM
Surr: 2-Fluorobiphenyl	56.8			53-106		%Rec	20	6/20/2016 6:24 PM
Surr: Nitrobenzene-d5	309	Q		55-111		%Rec	20	6/20/2016 6:24 PM
Surr: Terphenyl-d14	69.4			58-132		%Rec	20	6/20/2016 6:24 PM

RTI Laboratories - DATES REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606306-001A	H11-SB02-GW	6/7/2016 6:00 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/10/2016 7:22 AM	6/20/2016 6:24 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/10/2016 7:22 AM	6/24/2016 7:25 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/10/2016 7:22 AM	6/28/2016 3:42 AM
1606306-001B	H11-SB02-GW	6/7/2016 6:00 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/24/2016 7:09 PM
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/25/2016 12:00 AM
1606306-001C	H11-SB02-GW	6/7/2016 6:00 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 1:50 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 4:08 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:45 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 9:44 AM	6/16/2016 12:06 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40121**

Sample ID:	MB-40121	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/10/2016	RunNo:	87530
Client ID:	PBW	Batch ID:	40121	TestNo:	SW8270C	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1708600

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									UY
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									U
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.60		0.5000		120	53	106				Q
Surr: Nitrobenzene-d5	0.69		0.5000		139	55	111				Q
Surr: Terphenyl-d14	0.85		0.5000		170	58	132				Q

Sample ID:	LCS-40121	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/10/2016	RunNo:	87530
Client ID:	LCSW	Batch ID:	40121	TestNo:	SW8270C	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1708601

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.24	0.020	0.4000	0	61.2	41	115				
2-Methylnaphthalene	0.25	0.020	0.4000	0	62.3	39	114				
Acenaphthene	0.24	0.020	0.4000	0	59.9	48	114				
Acenaphthylene	0.24	0.020	0.4000	0	58.8	35	121				
Anthracene	0.25	0.020	0.4000	0	63.6	53	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40121**

Sample ID:	LCS-40121	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/10/2016	RunNo:	87530
Client ID:	LCSW	Batch ID:	40121	TestNo:	SW8270C	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1708601

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.33	0.020	0.4000	0	83.3	59	120				
Benzo(a)pyrene	0.28	0.020	0.4000	0	69.7	53	120				
Benzo(b)fluoranthene	0.39	0.020	0.4000	0	98.3	53	126				
Benzo(g,h,i)perylene	0.41	0.020	0.4000	0	102	44	128				Y
Benzo(k)fluoranthene	0.26	0.020	0.4000	0	64.0	54	125				
Chrysene	0.25	0.020	0.4000	0	61.7	57	120				
Dibenzo(a,h)anthracene	0.36	0.020	0.4000	0	88.8	44	131				
Fluoranthene	0.27	0.020	0.4000	0	67.7	58	120				
Fluorene	0.27	0.020	0.4000	0	66.8	50	118				
Indeno(1,2,3-cd)pyrene	0.34	0.020	0.4000	0	85.4	48	130				
Naphthalene	0.23	0.020	0.4000	0	58.5	43	114				
Phenanthrene	0.31	0.020	0.4000	0	77.2	53	115				
Pyrene	0.28	0.020	0.4000	0	70.8	53	124				
Surr: 2-Fluorobiphenyl	0.30		0.5000		60.6	53	106				
Surr: Nitrobenzene-d5	0.35		0.5000		69.7	55	111				
Surr: Terphenyl-d14	0.42		0.5000		83.7	58	132				

Sample ID:	LCSD-40121	Samp Type:	LCSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/10/2016	RunNo:	87530
Client ID:	LCSS02	Batch ID:	40121	TestNo:	SW8270C	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1708602

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.27	0.020	0.4000	0	66.7	41	115	0.2449	8.55	20	
2-Methylnaphthalene	0.27	0.020	0.4000	0	67.6	39	114	0.2490	8.27	20	
Acenaphthene	0.26	0.020	0.4000	0	65.4	48	114	0.2398	8.73	20	
Acenaphthylene	0.26	0.020	0.4000	0	64.1	35	121	0.2352	8.65	20	
Anthracene	0.27	0.020	0.4000	0	67.2	53	119	0.2546	5.39	20	
Benz(a)anthracene	0.35	0.020	0.4000	0	86.5	59	120	0.3333	3.76	20	
Benzo(a)pyrene	0.29	0.020	0.4000	0	72.5	53	120	0.2789	3.91	20	
Benzo(b)fluoranthene	0.39	0.020	0.4000	0	96.9	53	126	0.3933	1.46	20	
Benzo(g,h,i)perylene	0.45	0.020	0.4000	0	111	44	128	0.4068	9.14	20	Y
Benzo(k)fluoranthene	0.32	0.020	0.4000	0	79.7	54	125	0.2561	21.8	20	R

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40121**

Sample ID:	LCSD-40121	Samp Type:	LCSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/10/2016	RunNo:	87530
Client ID:	LCSS02	Batch ID:	40121	TestNo:	SW8270C	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1708602

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.28	0.020	0.4000	0	69.5	57	120	0.2467	11.9	20	
Dibenzo(a,h)anthracene	0.39	0.020	0.4000	0	97.0	44	131	0.3550	8.93	20	
Fluoranthene	0.29	0.020	0.4000	0	71.5	58	120	0.2708	5.40	20	
Fluorene	0.29	0.020	0.4000	0	71.8	50	118	0.2670	7.35	20	
Indeno(1,2,3-cd)pyrene	0.37	0.020	0.4000	0	93.5	48	130	0.3415	9.14	20	
Naphthalene	0.26	0.020	0.4000	0	64.0	43	114	0.2340	8.90	20	
Phenanthrene	0.33	0.020	0.4000	0	82.6	53	115	0.3088	6.71	20	
Pyrene	0.31	0.020	0.4000	0	78.0	53	124	0.2833	9.65	20	
Surr: 2-Fluorobiphenyl	0.33		0.5000		65.6	53	106		0	20	
Surr: Nitrobenzene-d5	0.38		0.5000		76.8	55	111		0	20	
Surr: Terphenyl-d14	0.46		0.5000		91.0	58	132		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40161**

Sample ID:	MB-40161	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	PBW	Batch ID:	40161	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682280	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	2.5	2.5									UG	
Silver	1.5	1.5									UG	

Sample ID:	LCS-40161	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	LCSW	Batch ID:	40161	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682281	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	420	2.5	400.0	0	105	85	117				G	
Silver	410	1.5	400.0	0	102	85	116				G	

Sample ID:	1606422-008DMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	ZZZZZZ	Batch ID:	40161	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682283	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	420	2.5	400.0	1.300	106	85	117				G	
Silver	410	1.5	400.0	0.6050	103	85	116				G	

Sample ID:	1606422-008DMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	ZZZZZZ	Batch ID:	40161	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682284	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	470	2.5	400.0	1.300	117	85	117	424.8	9.65	20	G	
Silver	450	1.5	400.0	0.6050	112	85	116	411.5	8.55	20	G	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40174

Sample ID:	MB-40174	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	PBW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1700956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9.8	50									JG
Arsenic	1.5	1.5									U
Barium	25	25									U
Cadmium	1.0	1.0									U
Calcium	1,000	1,000									U
Chromium	10	10									UG
Cobalt	5.0	5.0									U
Copper	5.0	5.0									U
Iron	200	200									U
Lead	1.0	1.0									U
Magnesium	500	500									U
Manganese	5.0	5.0									U
Nickel	0.23	10									J
Potassium	500	500									U
Selenium	5.0	5.0									U
Sodium	500	500									U
Thallium	2.0	2.0									U
Vanadium	4.0	4.0									U
Zinc	50	50									U

Sample ID:	LCS-40174	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	LCSW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701009

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	200	50	200.0	0	102	84	117				G
Arsenic	190	1.5	200.0	0	93.7	84	116				
Barium	180	25	200.0	0	90.9	86	114				
Cadmium	180	1.0	200.0	0	90.0	87	115				
Calcium	2,100	1,000	2,000	0	103	87	118				
Chromium	180	10	200.0	0	91.1	85	116				G
Cobalt	180	5.0	200.0	0	90.9	86	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	LCS-40174	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	LCSW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701009

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Copper	220	5.0	200.0	0	108	85	118				
Iron	1,800	200	2,000	0	89.7	87	118				
Lead	190	1.0	200.0	0	92.9	88	115				
Magnesium	1,900	500	2,000	0	96.9	83	118				
Manganese	180	5.0	200.0	0	91.7	87	115				
Nickel	200	10	200.0	0	102	85	117				
Potassium	2,000	500	2,000	0	99.4	87	115				
Selenium	180	5.0	200.0	0	92.0	80	120				
Sodium	2,300	500	2,000	0	115	85	117				
Thallium	180	2.0	200.0	0	90.6	82	116				
Vanadium	180	4.0	200.0	0	89.7	86	115				
Zinc	2,300	50	2,000	0	116	83	119				

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	1,600	50	200.0	1,129	254	84	117				QG
Arsenic	220	1.5	200.0	8.730	103	84	116				
Barium	240	25	200.0	38.45	102	86	114				
Cadmium	200	1.0	200.0	0	101	87	115				
Calcium	51,000	1,000	2,000	47,600	179	87	118				Q
Chromium	200	10	200.0	2.025	98.3	85	116				G
Cobalt	200	5.0	200.0	1.815	99.9	86	115				
Copper	200	5.0	200.0	1.535	102	85	118				
Iron	40,000	200	2,000	36,990	174	87	118				Q
Lead	200	1.0	200.0	3.795	99.3	88	115				
Magnesium	9,100	500	2,000	6,805	116	83	118				
Manganese	1,700	5.0	200.0	1,402	144	87	115				Q
Nickel	210	10	200.0	2.965	101	85	117				
Potassium	11,000	500	2,000	8,164	117	87	115				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40174

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Selenium	210	5.0	200.0	0	104	80	120				
Sodium	13,000	500	2,000	10,600	129	85	117				Q
Thallium	200	2.0	200.0	0	99.3	82	116				
Vanadium	200	4.0	200.0	3.590	98.1	86	115				
Zinc	200	50	200.0	8.840	98.0	83	119				

Sample ID:	1606387-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701012

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	1,600	50	200.0	1,129	251	84	117	1,637	0.319	20	QG
Arsenic	210	1.5	200.0	8.730	103	84	116	215.6	0.773	20	
Barium	240	25	200.0	38.45	101	86	114	243.1	0.782	20	
Cadmium	200	1.0	200.0	0	99.9	87	115	203.0	1.56	20	
Calcium	51,000	1,000	2,000	47,600	169	87	118	51,180	0.405	20	Q
Chromium	200	10	200.0	2.025	98.1	85	116	198.6	0.202	20	G
Cobalt	200	5.0	200.0	1.815	98.8	86	115	201.6	1.03	20	
Copper	200	5.0	200.0	1.535	100	85	118	204.8	1.18	20	
Iron	40,000	200	2,000	36,990	150	87	118	40,470	1.21	20	Q
Lead	210	1.0	200.0	3.795	101	88	115	202.4	1.67	20	
Magnesium	9,100	500	2,000	6,805	117	83	118	9,125	0.188	20	
Manganese	1,700	5.0	200.0	1,402	142	87	115	1,690	0.283	20	Q
Nickel	200	10	200.0	2.965	99.6	85	117	205.8	1.76	20	
Potassium	11,000	500	2,000	8,164	118	87	115	10,510	0.189	20	Q
Selenium	200	5.0	200.0	0	99.6	80	120	207.6	4.09	20	
Sodium	13,000	500	2,000	10,600	122	85	117	13,180	1.11	20	Q
Thallium	200	2.0	200.0	0	101	82	116	198.7	1.29	20	
Vanadium	200	4.0	200.0	3.590	98.2	86	115	199.9	0.0350	20	
Zinc	200	50	200.0	8.840	96.0	83	119	204.8	2.01	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	**MB-40174**	Samp Type:	**MBLK**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**6/16/2016**	RunNo:	**87592**	
Client ID:	**PBW**	Batch ID:	**40174**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/25/2016**	SeqNo:	**1701379**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Beryllium	1.0	1.0									U	

Sample ID:	**LCS-40174**	Samp Type:	**LCS**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**6/16/2016**	RunNo:	**87592**	
Client ID:	**LCSW**	Batch ID:	**40174**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/25/2016**	SeqNo:	**1701380**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Beryllium	180	1.0	200.0	0	92.2	83	121					

Sample ID:	**1606387-005DMS**	Samp Type:	**MS**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**6/16/2016**	RunNo:	**87592**	
Client ID:	**ZZZZZZ**	Batch ID:	**40174**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/25/2016**	SeqNo:	**1701412**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Beryllium	190	1.0	200.0	0	93.2	83	121					

Sample ID:	**1606387-005DMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**6/16/2016**	RunNo:	**87592**	
Client ID:	**ZZZZZZ**	Batch ID:	**40174**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/25/2016**	SeqNo:	**1701413**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Beryllium	190	1.0	200.0	0	93.5	83	121	186.4	0.319	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	MB-40178	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	PBS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701925

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	13		16.50		80.9	46	115				
Surr: Nitrobenzene-d5	14		16.50		84.4	44	125				
Surr: Terphenyl-d14	16		16.50		95.3	58	133				

Sample ID:	LCS-40178	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	LCSS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701926

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		16.54		81.7	46	115				
Surr: Nitrobenzene-d5	14		16.54		84.1	44	125				
Surr: Terphenyl-d14	16		16.54		94.9	58	133				

Sample ID:	1606392-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701928

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	15		17.40		83.7	46	115				
Surr: Nitrobenzene-d5	17		17.40		94.9	44	125				
Surr: Terphenyl-d14	17		17.40		96.9	58	133				

Sample ID:	1606392-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701929

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		17.35		82.3	46	115		0	25	
Surr: Nitrobenzene-d5	16		17.35		92.5	44	125		0	25	
Surr: Terphenyl-d14	17		17.35		97.4	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	LCS-40212	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86925
Client ID:	LCSW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1686475

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.10	2.000	0	70.4	50	114				
Aroclor 1260	1.7	0.15	2.000	0	87.2	20	127				
Surr: Tetrachloro-m-xylene	0.053		0.1000		52.6	48	111				
Surr: Decachlorobiphenyl	0.087		0.1000		87.1	47	122				

Sample ID:	MB-40212	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86925
Client ID:	PBW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1686476

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.062		0.1000		61.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.5	40	135				

Sample ID:	1606387-005CMS	Samp Type:	MS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87005
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688027

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.093	1.869	0	76.0	50	114				
Aroclor 1260	1.1	0.14	1.869	0	59.8	20	127				
Surr: Tetrachloro-m-xylene	0.048		0.09346		51.1	48	111				
Surr: Decachlorobiphenyl	0.0030		0.09346		3.24	47	122				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40212

Sample ID:	1606387-005CMSD	Samp Type:	MSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87005
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688028

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.6	50	114	1.421	7.95	25	
Aroclor 1260	1.2	0.14	1.887	0	64.0	20	127	1.118	7.73	25	
Surr: Tetrachloro-m-xylene	0.063		0.09434		67.1	48	111		0	25	
Surr: Decachlorobiphenyl	0.031		0.09434		32.5	47	122		0	25	Q

Sample ID:	LCS-40212	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87004
Client ID:	LCSW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1688015

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.10	2.000	0	70.4	46	129				
Aroclor 1260	1.7	0.20	2.000	0	87.2	45	134				
Surr: Tetrachloro-m-xylene	0.053		0.1000		52.6	40	135				
Surr: Decachlorobiphenyl	0.087		0.1000		87.1	40	135				

Sample ID:	MB-40212	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87004
Client ID:	PBW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1688016

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.062		0.1000		61.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.5	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	1606387-005CMS	Samp Type:	MS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87006
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688065

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.093	1.869	0	76.0	46	129				
Aroclor 1260	1.1	0.19	1.869	0	59.8	45	134				
Surr: Tetrachloro-m-xylene	0.048		0.09346		51.1	40	135				
Surr: Decachlorobiphenyl	0.0030		0.09346		3.24	40	135				Q

Sample ID:	1606387-005CMSD	Samp Type:	MSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87006
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688066

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.6	46	129	1.421	7.95	25	
Aroclor 1260	1.2	0.19	1.887	0	64.0	45	134	1.118	7.73	25	
Surr: Tetrachloro-m-xylene	0.063		0.09434		67.1	40	135		0	25	
Surr: Decachlorobiphenyl	0.031		0.09434		32.5	40	135		0	25	Q

RTI Laboratories - Definitions and Acronyms

WO#: 1606306

Date Reported: 8/25/2016
Revision v3

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

AECOM
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Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606306

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060816-06
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	pH Check OK?	Comment
HII-SB02	-	-	N	1	HII-SB02-GW	06/07/16	1800	WG	5	004						2	2	1			Y	

06/08/16

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time		
AECOM	06/08/16	1130	Transfer to FedEx	06/08/16	1130		
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time		
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time		
			RTL Labs	6-9-16	10:00		

Comments

Shipment Method/Airbill No. 8103 0202 6060

MF

6107

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

#0016 Cooler ID: Blue Btle three

CUSTODY SEAL
DATE 06/08/2016
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Cooler Blank: 2.4°C

FedEx 0215 8103 0202 6107

THU - 09 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

RT 438 5 16:00 A
ST 11
6107
06.09

FID 48251 08JUN16 WSHA 539C2/30BD/6A08

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

2 or 3 Business Days

FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606337

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606337-001A	TB-GW-060816-01		6/8/2016 9:00 AM	6/10/2016 12:18 PM	Water
1606337-002A	WDS-SB25-GW		6/8/2016 11:00 AM	6/10/2016 12:18 PM	Groundwater
1606337-002B	WDS-SB25-GW		6/8/2016 11:00 AM	6/10/2016 12:18 PM	Groundwater
1606337-002C	WDS-SB25-GW		6/8/2016 11:00 AM	6/10/2016 12:18 PM	Groundwater
1606337-002D	WDS-SB25-GW		6/8/2016 11:00 AM	6/10/2016 12:18 PM	Groundwater
1606337-003A	WDS-SB26-GW		6/8/2016 10:05 AM	6/10/2016 12:18 PM	Groundwater
1606337-003B	WDS-SB26-GW		6/8/2016 10:05 AM	6/10/2016 12:18 PM	Groundwater
1606337-003C	WDS-SB26-GW		6/8/2016 10:05 AM	6/10/2016 12:18 PM	Groundwater
1606337-003D	WDS-SB26-GW		6/8/2016 10:05 AM	6/10/2016 12:18 PM	Groundwater
1606337-004A	WDS-SB26-GW DUP		6/8/2016 10:05 AM	6/10/2016 12:18 PM	Groundwater
1606337-004B	WDS-SB26-GW DUP		6/8/2016 10:05 AM	6/10/2016 12:18 PM	Groundwater
1606337-004C	WDS-SB26-GW DUP		6/8/2016 10:05 AM	6/10/2016 12:18 PM	Groundwater
1606337-004D	WDS-SB26-GW DUP		6/8/2016 10:05 AM	6/10/2016 12:18 PM	Groundwater
1606337-005A	WDS-SB27-GW		6/8/2016 10:00 AM	6/10/2016 12:18 PM	Groundwater
1606337-005B	WDS-SB27-GW		6/8/2016 10:00 AM	6/10/2016 12:18 PM	Groundwater
1606337-005C	WDS-SB27-GW		6/8/2016 10:00 AM	6/10/2016 12:18 PM	Groundwater
1606337-006A	WDS-SB22-GW		6/8/2016 3:00 PM	6/10/2016 12:18 PM	Groundwater
1606337-006B	WDS-SB22-GW		6/8/2016 3:00 PM	6/10/2016 12:18 PM	Groundwater
1606337-006C	WDS-SB22-GW		6/8/2016 3:00 PM	6/10/2016 12:18 PM	Groundwater
1606337-006D	WDS-SB22-GW		6/8/2016 3:00 PM	6/10/2016 12:18 PM	Groundwater
1606337-007A	WDS-SB22-GW DUP		6/8/2016 3:00 PM	6/10/2016 12:18 PM	Groundwater
1606337-007B	WDS-SB22-GW DUP		6/8/2016 3:00 PM	6/10/2016 12:18 PM	Groundwater
1606337-007C	WDS-SB22-GW DUP		6/8/2016 3:00 PM	6/10/2016 12:18 PM	Groundwater
1606337-007D	WDS-SB22-GW DUP		6/8/2016 3:00 PM	6/10/2016 12:18 PM	Groundwater
1606337-008A	H11-SB01-GW		6/8/2016 2:00 PM	6/10/2016 12:18 PM	Groundwater
1606337-008B	H11-SB01-GW		6/8/2016 2:00 PM	6/10/2016 12:18 PM	Groundwater
1606337-008C	H11-SB01-GW		6/8/2016 2:00 PM	6/10/2016 12:18 PM	Groundwater

RTI Laboratories - Case Narrative

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Metals, ICP/MS - 6020
Silver and/or Antimony, ICP/MS - 6020A-SA
Polychlorinated Biphenyls - 8082A
Volatile Organic Compounds - 8260C
Semi-Volatile Organic Compounds - 8270D-MOD
Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_8260A, Analytical Run No 86698, Batch ID R86698:
Sample VOA10 CCV 061516: Chlorodibromomethane, vinyl acetate and 2-hexanone exceed the 20% criteria.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86748, Batch ID 40156:
Sample LCS-40156: LCS results for4-Nitrophenol, N-Nitrosodimethylamine exceeded recovery control limits
Sample 1606337-003B: Surrogate Phenol-d5 exceeded recovery control limit.
Sample 1606337-004B: Surrogate Phenol-d5 exceeded recovery control limit.
Sample 1606337-006B: Surrogate Phenol-d5 exceeded recovery control limit.
Sample 1606337-007B: Surrogate Phenol-d5 exceeded recovery control limit.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86748, Batch ID 40170:
Sample LCS-40170: LCS results for N-Nitrosodimethylamine exceeded recovery control limits.
Sample MB-40170: Surrogate Phenol-d5 was outside the control limits.
Samples 1606422-002B MS/MSD: Several Spike recoveries and RPDs were outside the control limits.
Sample 1606422-008B MS/MSD: Several spike recoveries were outside the control limits. RPD for Pentachlorophenol was outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86748, Batch ID 40156:
Sample 1606387-005B MS/MSD: Spike recoveries for 3'3-Dichlorobenzidine, N-Nitrosodimethylamine, Pentachlorophenol, Phenol and Phenol-d5 were outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86748, Batch ID R86748:
Sample ICV S8 050216: ICV results for Benzoic acid and Bis(2-chloroisopropyl) ether exceeded the 20% criteria.
Sample CCV S8 061616: CCV results for 2,4-Dinitrophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, and 2-Nitroaniline exceeded the 20% criteria.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87458, Batch ID 40160:
Sample 1606337-002B: Surrogates 2-Fluorobiphenyl and Nitrobenzene-d5 were outside the control limits.
Sample 1606337-003B: Surrogates 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.
Sample 1606337-004B: Surrogates 2-Fluorobiphenyl and Nitrobenzene-d5 were outside the control limits.
Sample 1606337-006B: Surrogates 2-Fluorobiphenyl and Nitrobenzene-d5 were outside the control limits.
Sample 1606337-007B: Surrogates 2-Fluorobiphenyl and Nitrobenzene-d5 were outside the control limits.
Samples 1606387-005B MS/MSD: Several Spike and surrogate recoveries were outside the control limits. Several RPDs were outside the control limits.

Analytical Comments for Test SW_6020A, Analytical Run No 87545, Batch ID 40174:
Samples 1606387-005D MS: Spike recoveries for several analytes were outside the control limits.

Analytical Comments for Test SW_8082A, Analytical Run No 87006, Batch ID 40212:
Sample 1606387-005C MS/MSD: Surrogate recovery for Decachlorobiphenyl was outside the control limits.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87825, Batch ID 87825:
Sample CCVE SIMS8 072116, Batch ID R87825 : Ending CCV results for Benzo(k)fluoranthene, Benzo(g,h,i)perylene exceeded the 50% criteria.

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/8/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606337-001	**Matrix:**	Water
Client Sample ID:	TB-GW-060816-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/15/2016 11:27 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/15/2016 11:27 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/15/2016 11:27 AM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/15/2016 11:27 AM
Acetone	2.5	J	0.56	0.60	10	µg/L	1	6/15/2016 11:27 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/15/2016 11:27 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/15/2016 11:27 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Vinyl acetate	0.60	UY	0.37	0.60	5.0	µg/L	1	6/15/2016 11:27 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/15/2016 11:27 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/15/2016 11:27 AM
Surr: 4-Bromofluorobenzene	93.3			85-114		%Rec	1	6/15/2016 11:27 AM
Surr: Dibromofluoromethane	97.7			80-119		%Rec	1	6/15/2016 11:27 AM
Surr: Toluene-d8	95.2			89-112		%Rec	1	6/15/2016 11:27 AM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/8/2016 11:00:00 AM
Project:	Camp Hero		
Lab ID:	1606337-002	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB25-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.039	U	0.031	0.039	0.097	µg/L	1	6/25/2016 11:15 AM
Aroclor 1221	0.039	U	0.029	0.039	0.097	µg/L	1	6/25/2016 11:15 AM
Aroclor 1232	0.040	U	0.040	0.040	0.19	µg/L	1	6/25/2016 11:15 AM
Aroclor 1242	0.039	U	0.036	0.039	0.19	µg/L	1	6/25/2016 11:15 AM
Aroclor 1248	0.039	U	0.030	0.039	0.097	µg/L	1	6/25/2016 11:15 AM
Aroclor 1254	0.039	U	0.039	0.039	0.19	µg/L	1	6/25/2016 11:15 AM
Aroclor 1260	0.039	U	0.034	0.039	0.19	µg/L	1	6/25/2016 11:15 AM
Aroclor 1262	0.097	U	0.050	0.097	0.19	µg/L	1	6/25/2016 11:15 AM
Aroclor 1268	0.039	U	0.027	0.039	0.097	µg/L	1	6/25/2016 11:15 AM
Surr: Tetrachloro-m-xylene	78.3			40-135		%Rec	1	6/25/2016 11:15 AM
Surr: Decachlorobiphenyl	90.0			40-135		%Rec	1	6/25/2016 11:15 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	22,000		28	50	1,000	µg/L	100	7/25/2016 5:20 PM
Arsenic	5.2		0.61	1.0	1.5	µg/L	5	7/25/2016 12:40 PM
Barium	120		0.18	0.50	25	µg/L	5	7/25/2016 12:40 PM
Beryllium	10	U	5.0	10	20	µg/L	100	7/25/2016 5:20 PM
Cadmium	0.46	J	0.27	0.50	1.0	µg/L	5	7/25/2016 12:40 PM
Calcium	36,000		90	120	1,000	µg/L	5	7/25/2016 12:40 PM
Chromium	27	G	0.30	0.50	10	µg/L	5	7/25/2016 12:40 PM
Cobalt	16		0.12	0.50	5.0	µg/L	5	7/25/2016 12:40 PM
Copper	15		0.24	0.50	5.0	µg/L	5	7/25/2016 12:40 PM
Iron	17,000		48	120	200	µg/L	5	7/25/2016 12:40 PM
Lead	13		0.24	0.50	1.0	µg/L	5	7/25/2016 12:40 PM
Magnesium	8,300		41	120	500	µg/L	5	7/25/2016 12:40 PM
Manganese	720		0.26	0.50	5.0	µg/L	5	7/25/2016 12:40 PM
Nickel	21		0.20	0.50	10	µg/L	5	7/25/2016 12:40 PM
Potassium	3,500		110	120	500	µg/L	5	7/25/2016 12:40 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/25/2016 12:40 PM
Sodium	30,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:20 PM
Thallium	0.20	J	0.16	0.50	2.0	µg/L	5	7/25/2016 12:40 PM
Vanadium	40		0.49	0.50	4.0	µg/L	5	7/25/2016 12:40 PM
Zinc	60		1.8	2.5	50	µg/L	5	7/25/2016 12:40 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.1	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:17 AM
Silver	0.28	J	0.24	0.50	1.5	µg/L	5	6/16/2016 11:17 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	1.0	U	0.90	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
1,2-Dichlorobenzene	1.0	U	0.92	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
1,3-Dichlorobenzene	1.0	U	0.76	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
1,4-Dichlorobenzene	2.5	U	1.0	2.5	5.0	µg/L	1	6/16/2016 10:40 PM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 11:00:00 AM
Project: Camp Hero
Lab ID: 1606337-002 **Matrix:** Groundwater
Client Sample ID: WDS-SB25-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.5	U	1.1	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
2,4,6-Trichlorophenol	1.0	U	0.96	1.0	4.0	µg/L	1	6/16/2016 10:40 PM
2,4-Dichlorophenol	2.5	U	1.4	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
2,4-Dimethyl phenol	2.5	U	2.2	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
2,4-Dinitrophenol	10	UY	5.0	10	25	µg/L	1	6/16/2016 10:40 PM
2,4-Dinitrotoluene	1.0	U	0.60	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
2,6-Dinitrotoluene	1.0	U	0.85	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
2-Chloronaphthalene	1.0	U	0.88	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
2-Chlorophenol	1.0	U	0.87	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
2-Methylphenol (o-Cresol)	1.0	U	1.0	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
2-Nitroaniline	1.0	U	0.88	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
2-Nitrophenol	2.5	UY	1.3	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
3,3´-Dichlorobenzidine	2.5	U	1.6	2.5	20	µg/L	1	6/16/2016 10:40 PM
3-Nitroaniline	1.0	U	0.83	1.0	10	µg/L	1	6/16/2016 10:40 PM
3/4-Methylphenol [m/p-Cresol]	5.0	U	1.8	5.0	10	µg/L	1	6/16/2016 10:40 PM
4,6-Dinitro-2-methylphenol	1.0	UY	0.89	1.0	10	µg/L	1	6/16/2016 10:40 PM
4-Bromophenyl phenyl ether	1.0	U	0.79	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
4-Chloro-3-methylphenol	2.5	U	1.3	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
4-Chloroaniline [p-Chloroaniline]	1.0	U	0.81	1.0	10	µg/L	1	6/16/2016 10:40 PM
4-Chlorophenyl phenyl ether	1.0	U	0.79	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
4-Nitroaniline	2.5	U	1.2	2.5	10	µg/L	1	6/16/2016 10:40 PM
4-Nitrophenol	2.5	UQ	1.4	2.5	25	µg/L	1	6/16/2016 10:40 PM
Benzoic acid	2.5	UZ	2.0	2.5	25	µg/L	1	6/16/2016 10:40 PM
Benzyl alcohol	2.5	U	2.1	2.5	25	µg/L	1	6/16/2016 10:40 PM
Bis(2-chloroethoxy) methane	2.5	U	1.1	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
Bis(2-chloroethyl) ether	2.5	U	1.0	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
Bis(2-chloroisopropyl)ether	2.5	UZ	1.1	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
Bis(2-ethylhexyl) phthalate	1.0	U	0.70	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Butyl benzyl phthalate	2.5	U	1.0	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
Carbazole	1.0	U	0.61	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Di-n-butyl phthalate	1.0	U	0.58	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Di-n-octyl phthalate	2.5	U	1.2	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
Dibenzofuran	1.0	U	0.75	1.0	4.0	µg/L	1	6/16/2016 10:40 PM
Diethyl phthalate	1.0	U	0.62	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Dimethyl phthalate	1.0	U	0.71	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Hexachlorobenzene	1.0	U	0.61	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Hexachlorobutadiene	1.0	U	0.85	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Hexachloroethane	1.0	U	0.74	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Isophorone	1.0	U	0.96	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
N-Nitroso-di-n-propylamine	2.5	U	1.1	2.5	5.0	µg/L	1	6/16/2016 10:40 PM
N-Nitrosodimethylamine	1.0	UQ	0.63	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
N-Nitrosodiphenylamine	1.0	U	0.66	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Nitrobenzene	2.5	U	1.2	2.5	3.0	µg/L	1	6/16/2016 10:40 PM
Pentachlorophenol	1.0	U	0.92	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Phenol	1.0	U	0.60	1.0	5.0	µg/L	1	6/16/2016 10:40 PM
Surr: 2,4,6-Tribromophenol	107			43-140		%Rec	1	6/16/2016 10:40 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/8/2016 11:00:00 AM
Project:	Camp Hero		
Lab ID:	1606337-002	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB25-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	85.5			44-119		%Rec	1	6/16/2016 10:40 PM
Surr: 2-Fluorophenol	46.4			19-119		%Rec	1	6/16/2016 10:40 PM
Surr: Nitrobenzene-d5	84.5			44-120		%Rec	1	6/16/2016 10:40 PM
Surr: Phenol-d5	31.2			30-130		%Rec	1	6/16/2016 10:40 PM
Surr: Terphenyl-d14	88.0			50-134		%Rec	1	6/16/2016 10:40 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
2-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Naphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Phenanthrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:06 PM
Surr: 2-Fluorobiphenyl	45.9	Q		53-106		%Rec	1	6/17/2016 4:06 PM
Surr: Nitrobenzene-d5	46.0	Q		55-111		%Rec	1	6/17/2016 4:06 PM
Surr: Terphenyl-d14	80.1			58-132		%Rec	1	6/17/2016 4:06 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/15/2016 3:21 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/15/2016 3:21 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/15/2016 3:21 PM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/15/2016 3:21 PM
Acetone	3.4	J	0.56	0.60	10	µg/L	1	6/15/2016 3:21 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/15/2016 3:21 PM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 11:00:00 AM
Project: Camp Hero
Lab ID: 1606337-002 **Matrix:** Groundwater
Client Sample ID: WDS-SB25-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/15/2016 3:21 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/15/2016 3:21 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Vinyl acetate	0.60	UY	0.37	0.60	5.0	µg/L	1	6/15/2016 3:21 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/15/2016 3:21 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/15/2016 3:21 PM
Surr: 4-Bromofluorobenzene	92.6			85-114		%Rec	1	6/15/2016 3:21 PM
Surr: Dibromofluoromethane	105			80-119		%Rec	1	6/15/2016 3:21 PM
Surr: Toluene-d8	94.5			89-112		%Rec	1	6/15/2016 3:21 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/8/2016 10:05:00 AM
Project:	Camp Hero		
Lab ID:	1606337-003	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB26-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	6/25/2016 11:39 AM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	6/25/2016 11:39 AM
Aroclor 1232	0.038	U	0.038	0.038	0.19	µg/L	1	6/25/2016 11:39 AM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	6/25/2016 11:39 AM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	6/25/2016 11:39 AM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	6/25/2016 11:39 AM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	6/25/2016 11:39 AM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	6/25/2016 11:39 AM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	6/25/2016 11:39 AM
Surr: Tetrachloro-m-xylene	98.3			40-135		%Rec	1	6/25/2016 11:39 AM
Surr: Decachlorobiphenyl	90.5			40-135		%Rec	1	6/25/2016 11:39 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	9,800		28	50	1,000	µg/L	100	7/25/2016 5:21 PM
Arsenic	1.7		0.61	1.0	1.5	µg/L	5	7/25/2016 12:42 PM
Barium	75		0.18	0.50	25	µg/L	5	7/25/2016 12:42 PM
Beryllium	10	U	5.0	10	20	µg/L	100	7/25/2016 5:21 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/25/2016 12:42 PM
Calcium	8,600		90	120	1,000	µg/L	5	7/25/2016 12:42 PM
Chromium	13	G	0.30	0.50	10	µg/L	5	7/25/2016 12:42 PM
Cobalt	7.1		0.12	0.50	5.0	µg/L	5	7/25/2016 12:42 PM
Copper	5.8		0.24	0.50	5.0	µg/L	5	7/25/2016 12:42 PM
Iron	11,000		48	120	200	µg/L	5	7/25/2016 12:42 PM
Lead	4.1		0.24	0.50	1.0	µg/L	5	7/25/2016 12:42 PM
Magnesium	8,700		41	120	500	µg/L	5	7/25/2016 12:42 PM
Manganese	700		0.26	0.50	5.0	µg/L	5	7/25/2016 12:42 PM
Nickel	7.4	J	0.20	0.50	10	µg/L	5	7/25/2016 12:42 PM
Potassium	1,800		110	120	500	µg/L	5	7/25/2016 12:42 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/25/2016 12:42 PM
Sodium	36,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:21 PM
Thallium	0.50	U	0.16	0.50	2.0	µg/L	5	7/25/2016 12:42 PM
Vanadium	17		0.49	0.50	4.0	µg/L	5	7/25/2016 12:42 PM
Zinc	22	J	1.8	2.5	50	µg/L	5	7/25/2016 12:42 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.44	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:18 AM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	6/16/2016 11:18 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.93	U	0.84	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
1,2-Dichlorobenzene	0.93	U	0.86	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
1,3-Dichlorobenzene	0.93	U	0.71	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
1,4-Dichlorobenzene	2.3	U	0.97	2.3	4.7	µg/L	1	6/16/2016 11:05 PM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 10:05:00 AM
Project: Camp Hero
Lab ID: 1606337-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB26-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.3	U	1.0	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
2,4,6-Trichlorophenol	0.93	U	0.90	0.93	3.7	µg/L	1	6/16/2016 11:05 PM
2,4-Dichlorophenol	2.3	U	1.3	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
2,4-Dimethyl phenol	2.3	U	2.1	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
2,4-Dinitrophenol	9.3	UY	4.7	9.3	23	µg/L	1	6/16/2016 11:05 PM
2,4-Dinitrotoluene	0.93	U	0.56	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
2,6-Dinitrotoluene	0.93	U	0.79	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
2-Chloronaphthalene	0.93	U	0.83	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
2-Chlorophenol	0.93	U	0.81	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
2-Methylphenol (o-Cresol)	0.93	U	0.93	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
2-Nitroaniline	0.93	U	0.82	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
2-Nitrophenol	2.3	UY	1.2	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
3,3´-Dichlorobenzidine	2.3	U	1.5	2.3	19	µg/L	1	6/16/2016 11:05 PM
3-Nitroaniline	0.93	U	0.78	0.93	9.3	µg/L	1	6/16/2016 11:05 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.3	µg/L	1	6/16/2016 11:05 PM
4,6-Dinitro-2-methylphenol	0.93	UY	0.83	0.93	9.3	µg/L	1	6/16/2016 11:05 PM
4-Bromophenyl phenyl ether	0.93	U	0.74	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
4-Chloro-3-methylphenol	2.3	U	1.2	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
4-Chloroaniline [p-Chloroaniline]	0.93	U	0.76	0.93	9.3	µg/L	1	6/16/2016 11:05 PM
4-Chlorophenyl phenyl ether	0.93	U	0.74	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
4-Nitroaniline	2.3	U	1.1	2.3	9.3	µg/L	1	6/16/2016 11:05 PM
4-Nitrophenol	2.3	UQ	1.3	2.3	23	µg/L	1	6/16/2016 11:05 PM
Benzoic acid	2.3	UZ	1.9	2.3	23	µg/L	1	6/16/2016 11:05 PM
Benzyl alcohol	2.3	U	2.0	2.3	23	µg/L	1	6/16/2016 11:05 PM
Bis(2-chloroethoxy) methane	2.3	U	0.98	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
Bis(2-chloroethyl) ether	2.3	U	0.97	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
Bis(2-chloroisopropyl)ether	2.3	UZ	1.0	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
Bis(2-ethylhexyl) phthalate	0.93	U	0.66	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Butyl benzyl phthalate	2.3	U	0.96	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
Carbazole	0.93	U	0.57	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Di-n-butyl phthalate	0.93	U	0.54	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Di-n-octyl phthalate	2.3	U	1.1	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
Dibenzofuran	0.93	U	0.70	0.93	3.7	µg/L	1	6/16/2016 11:05 PM
Diethyl phthalate	0.93	U	0.58	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Dimethyl phthalate	0.93	U	0.67	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Hexachlorobenzene	0.93	U	0.57	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Hexachlorobutadiene	0.93	U	0.80	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Hexachloroethane	0.93	U	0.69	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Isophorone	0.93	U	0.90	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
N-Nitroso-di-n-propylamine	2.3	U	1.0	2.3	4.7	µg/L	1	6/16/2016 11:05 PM
N-Nitrosodimethylamine	0.93	UQ	0.59	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
N-Nitrosodiphenylamine	0.93	U	0.62	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Nitrobenzene	2.3	U	1.1	2.3	2.8	µg/L	1	6/16/2016 11:05 PM
Pentachlorophenol	0.93	U	0.86	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Phenol	0.93	U	0.56	0.93	4.7	µg/L	1	6/16/2016 11:05 PM
Surr: 2,4,6-Tribromophenol	94.8			43-140		%Rec	1	6/16/2016 11:05 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 10:05:00 AM
Project: Camp Hero
Lab ID: 1606337-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB26-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	70.8			44-119		%Rec	1	6/16/2016 11:05 PM
Surr: 2-Fluorophenol	40.2			19-119		%Rec	1	6/16/2016 11:05 PM
Surr: Nitrobenzene-d5	66.0			44-120		%Rec	1	6/16/2016 11:05 PM
Surr: Phenol-d5	26.8	Q		30-130		%Rec	1	6/16/2016 11:05 PM
Surr: Terphenyl-d14	88.4			50-134		%Rec	1	6/16/2016 11:05 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
2-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Naphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Phenanthrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 4:33 PM
Surr: 2-Fluorobiphenyl	22.3	Q		53-106		%Rec	1	6/17/2016 4:33 PM
Surr: Nitrobenzene-d5	21.2	Q		55-111		%Rec	1	6/17/2016 4:33 PM
Surr: Terphenyl-d14	56.6	Q		58-132		%Rec	1	6/17/2016 4:33 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/15/2016 3:58 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/15/2016 3:58 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/15/2016 3:58 PM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/15/2016 3:58 PM
Acetone	3.0	J	0.56	0.60	10	µg/L	1	6/15/2016 3:58 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/15/2016 3:58 PM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 10:05:00 AM
Project: Camp Hero
Lab ID: 1606337-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB26-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/15/2016 3:58 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/15/2016 3:58 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Vinyl acetate	0.60	UY	0.37	0.60	5.0	µg/L	1	6/15/2016 3:58 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/15/2016 3:58 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/15/2016 3:58 PM
Surr: 4-Bromofluorobenzene	91.0			85-114		%Rec	1	6/15/2016 3:58 PM
Surr: Dibromofluoromethane	107			80-119		%Rec	1	6/15/2016 3:58 PM
Surr: Toluene-d8	94.0			89-112		%Rec	1	6/15/2016 3:58 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/8/2016 10:05:00 AM
Project:	Camp Hero		
Lab ID:	1606337-004	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB26-GW DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.095	µg/L	1	6/24/2016 8:22 PM
Aroclor 1221	0.038	U	0.029	0.038	0.095	µg/L	1	6/24/2016 8:22 PM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/24/2016 8:22 PM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/24/2016 8:22 PM
Aroclor 1248	0.038	U	0.030	0.038	0.095	µg/L	1	6/24/2016 8:22 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/24/2016 8:22 PM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/24/2016 8:22 PM
Aroclor 1262	0.095	U	0.049	0.095	0.19	µg/L	1	6/24/2016 8:22 PM
Aroclor 1268	0.038	U	0.027	0.038	0.095	µg/L	1	6/24/2016 8:22 PM
Surr: Tetrachloro-m-xylene	68.3			40-135		%Rec	1	6/24/2016 8:22 PM
Surr: Decachlorobiphenyl	64.1			40-135		%Rec	1	6/24/2016 8:22 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	9,700		28	50	1,000	µg/L	100	7/25/2016 5:22 PM
Arsenic	2.5		0.61	1.0	1.5	µg/L	5	7/25/2016 12:44 PM
Barium	79		0.18	0.50	25	µg/L	5	7/25/2016 12:44 PM
Beryllium	10	U	5.0	10	20	µg/L	100	7/25/2016 5:22 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/25/2016 12:44 PM
Calcium	8,500		90	120	1,000	µg/L	5	7/25/2016 12:44 PM
Chromium	14	G	0.30	0.50	10	µg/L	5	7/25/2016 12:44 PM
Cobalt	7.5		0.12	0.50	5.0	µg/L	5	7/25/2016 12:44 PM
Copper	6.3		0.24	0.50	5.0	µg/L	5	7/25/2016 12:44 PM
Iron	13,000		48	120	200	µg/L	5	7/25/2016 12:44 PM
Lead	4.6		0.24	0.50	1.0	µg/L	5	7/25/2016 12:44 PM
Magnesium	8,700		41	120	500	µg/L	5	7/25/2016 12:44 PM
Manganese	670		0.26	0.50	5.0	µg/L	5	7/25/2016 12:44 PM
Nickel	8.3	J	0.20	0.50	10	µg/L	5	7/25/2016 12:44 PM
Potassium	1,800		110	120	500	µg/L	5	7/25/2016 12:44 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/25/2016 12:44 PM
Sodium	32,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:22 PM
Thallium	0.50	U	0.16	0.50	2.0	µg/L	5	7/25/2016 12:44 PM
Vanadium	19		0.49	0.50	4.0	µg/L	5	7/25/2016 12:44 PM
Zinc	23	J	1.8	2.5	50	µg/L	5	7/25/2016 12:44 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.34	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:18 AM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	6/16/2016 11:18 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.94	U	0.85	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
1,2-Dichlorobenzene	0.94	U	0.87	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
1,3-Dichlorobenzene	0.94	U	0.71	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
1,4-Dichlorobenzene	2.4	U	0.98	2.4	4.7	µg/L	1	6/16/2016 11:29 PM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 10:05:00 AM
Project: Camp Hero
Lab ID: 1606337-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB26-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.4	U	1.0	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
2,4,6-Trichlorophenol	0.94	U	0.91	0.94	3.8	µg/L	1	6/16/2016 11:29 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
2,4-Dinitrophenol	9.4	UY	4.8	9.4	24	µg/L	1	6/16/2016 11:29 PM
2,4-Dinitrotoluene	0.94	U	0.57	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
2,6-Dinitrotoluene	0.94	U	0.80	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
2-Chloronaphthalene	0.94	U	0.83	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
2-Chlorophenol	0.94	U	0.82	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
2-Methylphenol (o-Cresol)	0.94	U	0.94	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
2-Nitroaniline	0.94	U	0.83	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
2-Nitrophenol	2.4	UY	1.2	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
3,3´-Dichlorobenzidine	2.4	U	1.5	2.4	19	µg/L	1	6/16/2016 11:29 PM
3-Nitroaniline	0.94	U	0.79	0.94	9.4	µg/L	1	6/16/2016 11:29 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.4	µg/L	1	6/16/2016 11:29 PM
4,6-Dinitro-2-methylphenol	0.94	UY	0.84	0.94	9.4	µg/L	1	6/16/2016 11:29 PM
4-Bromophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
4-Chloroaniline [p-Chloroaniline]	0.94	U	0.76	0.94	9.4	µg/L	1	6/16/2016 11:29 PM
4-Chlorophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.4	µg/L	1	6/16/2016 11:29 PM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/16/2016 11:29 PM
Benzoic acid	2.4	UZ	1.9	2.4	24	µg/L	1	6/16/2016 11:29 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/16/2016 11:29 PM
Bis(2-chloroethoxy) methane	2.4	U	0.99	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
Bis(2-chloroethyl) ether	2.4	U	0.97	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
Bis(2-chloroisopropyl)ether	2.4	UZ	1.1	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
Bis(2-ethylhexyl) phthalate	0.94	U	0.66	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Butyl benzyl phthalate	2.4	U	0.97	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
Carbazole	0.94	U	0.57	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Di-n-butyl phthalate	0.94	U	0.55	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
Dibenzofuran	0.94	U	0.71	0.94	3.8	µg/L	1	6/16/2016 11:29 PM
Diethyl phthalate	0.94	U	0.58	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Dimethyl phthalate	0.94	U	0.67	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Hexachlorobenzene	0.94	U	0.58	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Hexachlorobutadiene	0.94	U	0.81	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Hexachloroethane	0.94	U	0.69	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Isophorone	0.94	U	0.91	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.7	µg/L	1	6/16/2016 11:29 PM
N-Nitrosodimethylamine	0.94	UQ	0.60	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
N-Nitrosodiphenylamine	0.94	U	0.62	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Nitrobenzene	2.4	U	1.2	2.4	2.8	µg/L	1	6/16/2016 11:29 PM
Pentachlorophenol	0.94	U	0.87	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Phenol	0.94	U	0.57	0.94	4.7	µg/L	1	6/16/2016 11:29 PM
Surr: 2,4,6-Tribromophenol	105			43-140		%Rec	1	6/16/2016 11:29 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 10:05:00 AM
Project: Camp Hero
Lab ID: 1606337-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB26-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	77.5			44-119		%Rec	1	6/16/2016 11:29 PM
Surr: 2-Fluorophenol	40.3			19-119		%Rec	1	6/16/2016 11:29 PM
Surr: Nitrobenzene-d5	74.6			44-120		%Rec	1	6/16/2016 11:29 PM
Surr: Phenol-d5	26.7	Q		30-130		%Rec	1	6/16/2016 11:29 PM
Surr: Terphenyl-d14	85.7			50-134		%Rec	1	6/16/2016 11:29 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
2-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Benzo(b)fluoranthene	0.025		0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Chrysene	0.020		0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Fluoranthene	0.043		0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Naphthalene	0.021		0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Phenanthrene	0.021		0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Pyrene	0.032		0.019	0.019	0.019	µg/L	1	6/17/2016 5:00 PM
Surr: 2-Fluorobiphenyl	37.5	Q		53-106		%Rec	1	6/17/2016 5:00 PM
Surr: Nitrobenzene-d5	37.3	Q		55-111		%Rec	1	6/17/2016 5:00 PM
Surr: Terphenyl-d14	76.4			58-132		%Rec	1	6/17/2016 5:00 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/15/2016 4:24 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/15/2016 4:24 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/15/2016 4:24 PM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/15/2016 4:24 PM
Acetone	4.3	J	0.56	0.60	10	µg/L	1	6/15/2016 4:24 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/15/2016 4:24 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 10:05:00 AM
Project: Camp Hero
Lab ID: 1606337-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB26-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/15/2016 4:24 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/15/2016 4:24 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Vinyl acetate	0.60	UY	0.37	0.60	5.0	µg/L	1	6/15/2016 4:24 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/15/2016 4:24 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/15/2016 4:24 PM
Surr: 4-Bromofluorobenzene	93.0			85-114		%Rec	1	6/15/2016 4:24 PM
Surr: Dibromofluoromethane	100			80-119		%Rec	1	6/15/2016 4:24 PM
Surr: Toluene-d8	92.7			89-112		%Rec	1	6/15/2016 4:24 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606337-005 **Matrix:** Groundwater
Client Sample ID: WDS-SB27-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte List Metals			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Metals, ICP/MS								
Aluminum	20,000		28	50	1,000	µg/L	100	7/25/2016 5:23 PM
Arsenic	4.2	G	0.61	1.0	1.5	µg/L	5	7/25/2016 1:31 PM
Barium	170		0.18	0.50	25	µg/L	5	7/25/2016 1:31 PM
Beryllium	10	U	5.0	10	20	µg/L	100	7/25/2016 5:23 PM
Cadmium	0.43	J	0.27	0.50	1.0	µg/L	5	7/25/2016 1:31 PM
Calcium	29,000		90	120	1,000	µg/L	5	7/25/2016 1:31 PM
Chromium	30	G	0.30	0.50	10	µg/L	5	7/25/2016 1:31 PM
Cobalt	12		0.12	0.50	5.0	µg/L	5	7/25/2016 1:31 PM
Copper	16		0.24	0.50	5.0	µg/L	5	7/25/2016 1:31 PM
Iron	16,000		48	120	200	µg/L	5	7/25/2016 1:31 PM
Lead	13		0.24	0.50	1.0	µg/L	5	7/25/2016 1:31 PM
Magnesium	15,000		41	120	500	µg/L	5	7/25/2016 1:31 PM
Manganese	430		0.26	0.50	5.0	µg/L	5	7/25/2016 1:31 PM
Nickel	16		0.20	0.50	10	µg/L	5	7/25/2016 1:31 PM
Potassium	3,600		110	120	500	µg/L	5	7/25/2016 1:31 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/25/2016 1:31 PM
Sodium	36,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:23 PM
Thallium	0.86	J	0.16	0.50	2.0	µg/L	5	7/25/2016 1:31 PM
Vanadium	41		0.49	0.50	4.0	µg/L	5	7/25/2016 1:31 PM
Zinc	58		1.8	2.5	50	µg/L	5	7/25/2016 1:31 PM
Target Analyte List Metals			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Silver and/or Antimony, ICP/MS								
Antimony	0.84	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:19 AM
Silver	0.24	J	0.24	0.50	1.5	µg/L	5	6/16/2016 11:19 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	2.5	U	2.3	2.5	12	µg/L	1	6/17/2016 1:58 AM
1,2-Dichlorobenzene	2.5	U	2.3	2.5	12	µg/L	1	6/17/2016 1:58 AM
1,3-Dichlorobenzene	2.5	U	1.9	2.5	12	µg/L	1	6/17/2016 1:58 AM
1,4-Dichlorobenzene	6.2	U	2.6	6.2	12	µg/L	1	6/17/2016 1:58 AM
2,4,5-Trichlorophenol	6.2	U	2.8	6.2	12	µg/L	1	6/17/2016 1:58 AM
2,4,6-Trichlorophenol	2.5	U	2.4	2.5	10	µg/L	1	6/17/2016 1:58 AM
2,4-Dichlorophenol	6.2	U	3.5	6.2	12	µg/L	1	6/17/2016 1:58 AM
2,4-Dimethyl phenol	6.2	U	5.6	6.2	12	µg/L	1	6/17/2016 1:58 AM
2,4-Dinitrophenol	25	UY	13	25	62	µg/L	1	6/17/2016 1:58 AM
2,4-Dinitrotoluene	2.5	U	1.5	2.5	12	µg/L	1	6/17/2016 1:58 AM
2,6-Dinitrotoluene	2.5	U	2.1	2.5	12	µg/L	1	6/17/2016 1:58 AM
2-Chloronaphthalene	2.5	U	2.2	2.5	12	µg/L	1	6/17/2016 1:58 AM
2-Chlorophenol	2.5	U	2.2	2.5	12	µg/L	1	6/17/2016 1:58 AM
2-Methylphenol (o-Cresol)	2.5	U	2.5	2.5	12	µg/L	1	6/17/2016 1:58 AM
2-Nitroaniline	2.5	U	2.2	2.5	12	µg/L	1	6/17/2016 1:58 AM
2-Nitrophenol	6.2	UY	3.2	6.2	12	µg/L	1	6/17/2016 1:58 AM
3,3´-Dichlorobenzidine	6.2	U	4.1	6.2	50	µg/L	1	6/17/2016 1:58 AM
3-Nitroaniline	2.5	U	2.1	2.5	25	µg/L	1	6/17/2016 1:58 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606337-005 **Matrix:** Groundwater
Client Sample ID: WDS-SB27-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	12	U	4.6	12	25	µg/L	1	6/17/2016 1:58 AM
4,6-Dinitro-2-methylphenol	2.5	UY	2.2	2.5	25	µg/L	1	6/17/2016 1:58 AM
4-Bromophenyl phenyl ether	2.5	U	2.0	2.5	12	µg/L	1	6/17/2016 1:58 AM
4-Chloro-3-methylphenol	6.2	U	3.2	6.2	12	µg/L	1	6/17/2016 1:58 AM
4-Chloroaniline [p-Chloroaniline]	2.5	U	2.0	2.5	25	µg/L	1	6/17/2016 1:58 AM
4-Chlorophenyl phenyl ether	2.5	U	2.0	2.5	12	µg/L	1	6/17/2016 1:58 AM
4-Nitroaniline	6.2	U	3.0	6.2	25	µg/L	1	6/17/2016 1:58 AM
4-Nitrophenol	6.2	U	3.5	6.2	62	µg/L	1	6/17/2016 1:58 AM
Benzoic acid	6.2	UZ	5.1	6.2	62	µg/L	1	6/17/2016 1:58 AM
Benzyl alcohol	6.2	U	5.3	6.2	62	µg/L	1	6/17/2016 1:58 AM
Bis(2-chloroethoxy) methane	6.2	U	2.6	6.2	12	µg/L	1	6/17/2016 1:58 AM
Bis(2-chloroethyl) ether	6.2	U	2.6	6.2	12	µg/L	1	6/17/2016 1:58 AM
Bis(2-chloroisopropyl)ether	6.2	UZ	2.8	6.2	12	µg/L	1	6/17/2016 1:58 AM
Bis(2-ethylhexyl) phthalate	2.5	U	1.8	2.5	12	µg/L	1	6/17/2016 1:58 AM
Butyl benzyl phthalate	6.2	U	2.6	6.2	12	µg/L	1	6/17/2016 1:58 AM
Carbazole	2.5	U	1.5	2.5	12	µg/L	1	6/17/2016 1:58 AM
Di-n-butyl phthalate	2.5	U	1.5	2.5	12	µg/L	1	6/17/2016 1:58 AM
Di-n-octyl phthalate	6.2	U	2.9	6.2	12	µg/L	1	6/17/2016 1:58 AM
Dibenzofuran	2.5	U	1.9	2.5	10	µg/L	1	6/17/2016 1:58 AM
Diethyl phthalate	2.5	U	1.5	2.5	12	µg/L	1	6/17/2016 1:58 AM
Dimethyl phthalate	2.5	U	1.8	2.5	12	µg/L	1	6/17/2016 1:58 AM
Hexachlorobenzene	2.5	U	1.5	2.5	12	µg/L	1	6/17/2016 1:58 AM
Hexachlorobutadiene	2.5	U	2.1	2.5	12	µg/L	1	6/17/2016 1:58 AM
Hexachloroethane	2.5	U	1.8	2.5	12	µg/L	1	6/17/2016 1:58 AM
Isophorone	2.5	U	2.4	2.5	12	µg/L	1	6/17/2016 1:58 AM
N-Nitroso-di-n-propylamine	6.2	U	2.8	6.2	12	µg/L	1	6/17/2016 1:58 AM
N-Nitrosodimethylamine	2.5	UQ	1.6	2.5	12	µg/L	1	6/17/2016 1:58 AM
N-Nitrosodiphenylamine	2.5	U	1.7	2.5	12	µg/L	1	6/17/2016 1:58 AM
Nitrobenzene	6.2	U	3.1	6.2	7.5	µg/L	1	6/17/2016 1:58 AM
Pentachlorophenol	2.5	U	2.3	2.5	12	µg/L	1	6/17/2016 1:58 AM
Phenol	2.5	U	1.5	2.5	12	µg/L	1	6/17/2016 1:58 AM
Surr: 2,4,6-Tribromophenol	96.4			43-140		%Rec	1	6/17/2016 1:58 AM
Surr: 2-Fluorobiphenyl	66.8			44-119		%Rec	1	6/17/2016 1:58 AM
Surr: 2-Fluorophenol	52.6			19-119		%Rec	1	6/17/2016 1:58 AM
Surr: Nitrobenzene-d5	65.2			44-120		%Rec	1	6/17/2016 1:58 AM
Surr: Phenol-d5	49.0			30-130		%Rec	1	6/17/2016 1:58 AM
Surr: Terphenyl-d14	94.2			50-134		%Rec	1	6/17/2016 1:58 AM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
2-Methylnaphthalene	0.020		0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Acenaphthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606337-005 **Matrix:** Groundwater
Client Sample ID: WDS-SB27-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(b)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Fluorene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Naphthalene	0.040		0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Phenanthrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:28 PM
Surr: 2-Fluorobiphenyl	55.4			53-106		%Rec	1	6/17/2016 5:28 PM
Surr: Nitrobenzene-d5	57.6			55-111		%Rec	1	6/17/2016 5:28 PM
Surr: Terphenyl-d14	80.1			58-132		%Rec	1	6/17/2016 5:28 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/15/2016 4:50 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/15/2016 4:50 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
2-Butanone [MEK]	5.6	J	2.3	5.0	10	µg/L	1	6/15/2016 4:50 PM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/15/2016 4:50 PM
Acetone	4.6	J	0.56	0.60	10	µg/L	1	6/15/2016 4:50 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/15/2016 4:50 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/15/2016 4:50 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/15/2016 4:50 PM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/8/2016 10:00:00 AM
Project:	Camp Hero		
Lab ID:	1606337-005	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB27-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Vinyl acetate	0.60	UY	0.37	0.60	5.0	µg/L	1	6/15/2016 4:50 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/15/2016 4:50 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/15/2016 4:50 PM
Surr: 4-Bromofluorobenzene	92.1			85-114		%Rec	1	6/15/2016 4:50 PM
Surr: Dibromofluoromethane	102			80-119		%Rec	1	6/15/2016 4:50 PM
Surr: Toluene-d8	95.0			89-112		%Rec	1	6/15/2016 4:50 PM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/8/2016 3:00:00 PM
Project:	Camp Hero		
Lab ID:	1606337-006	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB22-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.040	U	0.032	0.040	0.10	µg/L	1	6/24/2016 8:46 PM
Aroclor 1221	0.040	U	0.030	0.040	0.10	µg/L	1	6/24/2016 8:46 PM
Aroclor 1232	0.041	U	0.041	0.041	0.20	µg/L	1	6/24/2016 8:46 PM
Aroclor 1242	0.040	U	0.037	0.040	0.20	µg/L	1	6/24/2016 8:46 PM
Aroclor 1248	0.040	U	0.031	0.040	0.10	µg/L	1	6/24/2016 8:46 PM
Aroclor 1254	0.040	U	0.040	0.040	0.20	µg/L	1	6/24/2016 8:46 PM
Aroclor 1260	0.040	U	0.035	0.040	0.20	µg/L	1	6/24/2016 8:46 PM
Aroclor 1262	0.10	U	0.052	0.10	0.20	µg/L	1	6/24/2016 8:46 PM
Aroclor 1268	0.040	U	0.028	0.040	0.10	µg/L	1	6/24/2016 8:46 PM
Surr: Tetrachloro-m-xylene	63.3			40-135		%Rec	1	6/24/2016 8:46 PM
Surr: Decachlorobiphenyl	42.0			40-135		%Rec	1	6/24/2016 8:46 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	280,000		550	1,000	20,000	µg/L	2000	7/25/2016 6:45 PM
Arsenic	16	G	0.61	1.0	1.5	µg/L	5	7/25/2016 1:33 PM
Barium	1,600		0.18	0.50	25	µg/L	5	7/25/2016 1:33 PM
Beryllium	16	J	5.0	10	20	µg/L	100	7/25/2016 5:24 PM
Cadmium	4.8		0.27	0.50	1.0	µg/L	5	7/25/2016 1:33 PM
Calcium	52,000		1,800	2,500	20,000	µg/L	100	7/25/2016 3:35 PM
Chromium	340	G	6.1	10	200	µg/L	100	7/25/2016 3:35 PM
Cobalt	140		2.4	10	100	µg/L	100	7/25/2016 3:35 PM
Copper	220		4.9	10	100	µg/L	100	7/25/2016 3:35 PM
Iron	92,000		950	2,500	4,000	µg/L	100	7/25/2016 3:35 PM
Lead	120		0.24	0.50	1.0	µg/L	5	7/25/2016 1:33 PM
Magnesium	15,000		810	2,500	10,000	µg/L	100	7/25/2016 3:35 PM
Manganese	6,800		5.3	10	100	µg/L	100	7/25/2016 3:35 PM
Nickel	100	J	4.1	10	200	µg/L	100	7/25/2016 3:35 PM
Potassium	13,000		2,100	2,500	10,000	µg/L	100	7/25/2016 3:35 PM
Selenium	7.0		1.5	2.5	5.0	µg/L	5	7/25/2016 1:33 PM
Sodium	20,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:24 PM
Thallium	0.90	J	0.16	0.50	2.0	µg/L	5	7/25/2016 1:33 PM
Vanadium	280		9.8	10	80	µg/L	100	7/25/2016 3:35 PM
Zinc	270		1.8	2.5	50	µg/L	5	7/25/2016 1:33 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.3	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:23 AM
Silver	0.62	J	0.24	0.50	1.5	µg/L	5	6/16/2016 11:23 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.93	U	0.84	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
1,2-Dichlorobenzene	0.93	U	0.86	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
1,3-Dichlorobenzene	0.93	U	0.71	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
1,4-Dichlorobenzene	2.3	U	0.97	2.3	4.7	µg/L	1	6/16/2016 11:54 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 3:00:00 PM
Project: Camp Hero
Lab ID: 1606337-006 **Matrix:** Groundwater
Client Sample ID: WDS-SB22-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.3	U	1.0	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
2,4,6-Trichlorophenol	0.93	U	0.90	0.93	3.7	µg/L	1	6/16/2016 11:54 PM
2,4-Dichlorophenol	2.3	U	1.3	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
2,4-Dimethyl phenol	2.3	U	2.1	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
2,4-Dinitrophenol	9.3	UY	4.7	9.3	23	µg/L	1	6/16/2016 11:54 PM
2,4-Dinitrotoluene	0.93	U	0.56	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
2,6-Dinitrotoluene	0.93	U	0.79	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
2-Chloronaphthalene	0.93	U	0.83	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
2-Chlorophenol	0.93	U	0.81	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
2-Methylphenol (o-Cresol)	0.93	U	0.93	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
2-Nitroaniline	0.93	U	0.82	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
2-Nitrophenol	2.3	UY	1.2	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
3,3´-Dichlorobenzidine	2.3	U	1.5	2.3	19	µg/L	1	6/16/2016 11:54 PM
3-Nitroaniline	0.93	U	0.78	0.93	9.3	µg/L	1	6/16/2016 11:54 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.3	µg/L	1	6/16/2016 11:54 PM
4,6-Dinitro-2-methylphenol	0.93	UY	0.83	0.93	9.3	µg/L	1	6/16/2016 11:54 PM
4-Bromophenyl phenyl ether	0.93	U	0.74	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
4-Chloro-3-methylphenol	2.3	U	1.2	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
4-Chloroaniline [p-Chloroaniline]	0.93	U	0.76	0.93	9.3	µg/L	1	6/16/2016 11:54 PM
4-Chlorophenyl phenyl ether	0.93	U	0.74	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
4-Nitroaniline	2.3	U	1.1	2.3	9.3	µg/L	1	6/16/2016 11:54 PM
4-Nitrophenol	2.3	UQ	1.3	2.3	23	µg/L	1	6/16/2016 11:54 PM
Benzoic acid	2.3	UZ	1.9	2.3	23	µg/L	1	6/16/2016 11:54 PM
Benzyl alcohol	2.3	U	2.0	2.3	23	µg/L	1	6/16/2016 11:54 PM
Bis(2-chloroethoxy) methane	2.3	U	0.98	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
Bis(2-chloroethyl) ether	2.3	U	0.97	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
Bis(2-chloroisopropyl)ether	2.3	UZ	1.0	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
Bis(2-ethylhexyl) phthalate	0.93	U	0.66	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Butyl benzyl phthalate	2.3	U	0.96	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
Carbazole	0.93	U	0.57	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Di-n-butyl phthalate	0.93	U	0.54	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Di-n-octyl phthalate	2.3	U	1.1	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
Dibenzofuran	0.93	U	0.70	0.93	3.7	µg/L	1	6/16/2016 11:54 PM
Diethyl phthalate	0.93	U	0.58	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Dimethyl phthalate	0.93	U	0.67	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Hexachlorobenzene	0.93	U	0.57	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Hexachlorobutadiene	0.93	U	0.80	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Hexachloroethane	0.93	U	0.69	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Isophorone	0.93	U	0.90	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
N-Nitroso-di-n-propylamine	2.3	U	1.0	2.3	4.7	µg/L	1	6/16/2016 11:54 PM
N-Nitrosodimethylamine	0.93	UQ	0.59	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
N-Nitrosodiphenylamine	0.93	U	0.62	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Nitrobenzene	2.3	U	1.1	2.3	2.8	µg/L	1	6/16/2016 11:54 PM
Pentachlorophenol	0.93	U	0.86	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Phenol	0.93	U	0.56	0.93	4.7	µg/L	1	6/16/2016 11:54 PM
Surr: 2,4,6-Tribromophenol	95.5			43-140		%Rec	1	6/16/2016 11:54 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 3:00:00 PM
Project: Camp Hero
Lab ID: 1606337-006 **Matrix:** Groundwater
Client Sample ID: WDS-SB22-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	74.0			44-119		%Rec	1	6/16/2016 11:54 PM
Surr: 2-Fluorophenol	40.0			19-119		%Rec	1	6/16/2016 11:54 PM
Surr: Nitrobenzene-d5	73.1			44-120		%Rec	1	6/16/2016 11:54 PM
Surr: Phenol-d5	25.2	Q		30-130		%Rec	1	6/16/2016 11:54 PM
Surr: Terphenyl-d14	83.6			50-134		%Rec	1	6/16/2016 11:54 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
2-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Acenaphthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Benzo(b)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Fluorene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Naphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Phenanthrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 5:55 PM
Surr: 2-Fluorobiphenyl	27.8	Q		53-106		%Rec	1	6/17/2016 5:55 PM
Surr: Nitrobenzene-d5	24.8	Q		55-111		%Rec	1	6/17/2016 5:55 PM
Surr: Terphenyl-d14	76.3			58-132		%Rec	1	6/17/2016 5:55 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/15/2016 5:16 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/15/2016 5:16 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/15/2016 5:16 PM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/15/2016 5:16 PM
Acetone	3.3	J	0.56	0.60	10	µg/L	1	6/15/2016 5:16 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/15/2016 5:16 PM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 3:00:00 PM
Project: Camp Hero
Lab ID: 1606337-006 **Matrix:** Groundwater
Client Sample ID: WDS-SB22-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/15/2016 5:16 PM
Chloroform	1.4		0.46	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/15/2016 5:16 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Vinyl acetate	0.60	UY	0.37	0.60	5.0	µg/L	1	6/15/2016 5:16 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/15/2016 5:16 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/15/2016 5:16 PM
Surr: 4-Bromofluorobenzene	92.8			85-114		%Rec	1	6/15/2016 5:16 PM
Surr: Dibromofluoromethane	101			80-119		%Rec	1	6/15/2016 5:16 PM
Surr: Toluene-d8	94.4			89-112		%Rec	1	6/15/2016 5:16 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/8/2016 3:00:00 PM
Project:	Camp Hero		
Lab ID:	1606337-007	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB22-GW DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	6/25/2016 12:04 PM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	6/25/2016 12:04 PM
Aroclor 1232	0.038	U	0.038	0.038	0.19	µg/L	1	6/25/2016 12:04 PM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	6/25/2016 12:04 PM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	6/25/2016 12:04 PM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	6/25/2016 12:04 PM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	6/25/2016 12:04 PM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	6/25/2016 12:04 PM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	6/25/2016 12:04 PM
Surr: Tetrachloro-m-xylene	67.7			40-135		%Rec	1	6/25/2016 12:04 PM
Surr: Decachlorobiphenyl	46.4			40-135		%Rec	1	6/25/2016 12:04 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	15,000		28	50	1,000	µg/L	100	7/25/2016 5:25 PM
Arsenic	0.76	JG	0.61	1.0	1.5	µg/L	5	7/25/2016 1:35 PM
Barium	49		0.18	0.50	25	µg/L	5	7/25/2016 1:35 PM
Beryllium	10	U	5.0	10	20	µg/L	100	7/25/2016 5:25 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/25/2016 1:35 PM
Calcium	12,000		90	120	1,000	µg/L	5	7/25/2016 1:35 PM
Chromium	11	G	0.30	0.50	10	µg/L	5	7/25/2016 1:35 PM
Cobalt	3.6	J	0.12	0.50	5.0	µg/L	5	7/25/2016 1:35 PM
Copper	4.8	J	0.24	0.50	5.0	µg/L	5	7/25/2016 1:35 PM
Iron	4,600		48	120	200	µg/L	5	7/25/2016 1:35 PM
Lead	4.4		0.24	0.50	1.0	µg/L	5	7/25/2016 1:35 PM
Magnesium	4,400		41	120	500	µg/L	5	7/25/2016 1:35 PM
Manganese	180		0.26	0.50	5.0	µg/L	5	7/25/2016 1:35 PM
Nickel	5.0	J	0.20	0.50	10	µg/L	5	7/25/2016 1:35 PM
Potassium	2,500		110	120	500	µg/L	5	7/25/2016 1:35 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/25/2016 1:35 PM
Sodium	16,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:25 PM
Thallium	0.50	U	0.16	0.50	2.0	µg/L	5	7/25/2016 1:35 PM
Vanadium	11		0.49	0.50	4.0	µg/L	5	7/25/2016 1:35 PM
Zinc	11	J	1.8	2.5	50	µg/L	5	7/25/2016 1:35 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.64	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:23 AM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	6/16/2016 11:23 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	1.0	U	0.90	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
1,2-Dichlorobenzene	1.0	U	0.92	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
1,3-Dichlorobenzene	1.0	U	0.76	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
1,4-Dichlorobenzene	2.5	U	1.0	2.5	5.0	µg/L	1	6/17/2016 12:19 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 3:00:00 PM
Project: Camp Hero
Lab ID: 1606337-007 **Matrix:** Groundwater
Client Sample ID: WDS-SB22-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.5	U	1.1	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
2,4,6-Trichlorophenol	1.0	U	0.96	1.0	4.0	µg/L	1	6/17/2016 12:19 AM
2,4-Dichlorophenol	2.5	U	1.4	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
2,4-Dimethyl phenol	2.5	U	2.2	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
2,4-Dinitrophenol	10	UY	5.0	10	25	µg/L	1	6/17/2016 12:19 AM
2,4-Dinitrotoluene	1.0	U	0.60	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
2,6-Dinitrotoluene	1.0	U	0.85	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
2-Chloronaphthalene	1.0	U	0.88	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
2-Chlorophenol	1.0	U	0.87	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
2-Methylphenol (o-Cresol)	1.0	U	1.0	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
2-Nitroaniline	1.0	U	0.88	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
2-Nitrophenol	2.5	UY	1.3	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
3,3´-Dichlorobenzidine	2.5	U	1.6	2.5	20	µg/L	1	6/17/2016 12:19 AM
3-Nitroaniline	1.0	U	0.83	1.0	10	µg/L	1	6/17/2016 12:19 AM
3/4-Methylphenol [m/p-Cresol]	5.0	U	1.8	5.0	10	µg/L	1	6/17/2016 12:19 AM
4,6-Dinitro-2-methylphenol	1.0	UY	0.89	1.0	10	µg/L	1	6/17/2016 12:19 AM
4-Bromophenyl phenyl ether	1.0	U	0.79	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
4-Chloro-3-methylphenol	2.5	U	1.3	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
4-Chloroaniline [p-Chloroaniline]	1.0	U	0.81	1.0	10	µg/L	1	6/17/2016 12:19 AM
4-Chlorophenyl phenyl ether	1.0	U	0.79	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
4-Nitroaniline	2.5	U	1.2	2.5	10	µg/L	1	6/17/2016 12:19 AM
4-Nitrophenol	2.5	UQ	1.4	2.5	25	µg/L	1	6/17/2016 12:19 AM
Benzoic acid	2.5	UZ	2.0	2.5	25	µg/L	1	6/17/2016 12:19 AM
Benzyl alcohol	2.5	U	2.1	2.5	25	µg/L	1	6/17/2016 12:19 AM
Bis(2-chloroethoxy) methane	2.5	U	1.1	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
Bis(2-chloroethyl) ether	2.5	U	1.0	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
Bis(2-chloroisopropyl)ether	2.5	UZ	1.1	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
Bis(2-ethylhexyl) phthalate	1.0	U	0.70	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Butyl benzyl phthalate	2.5	U	1.0	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
Carbazole	1.0	U	0.61	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Di-n-butyl phthalate	1.0	U	0.58	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Di-n-octyl phthalate	2.5	U	1.2	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
Dibenzofuran	1.0	U	0.75	1.0	4.0	µg/L	1	6/17/2016 12:19 AM
Diethyl phthalate	1.0	U	0.62	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Dimethyl phthalate	1.0	U	0.71	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Hexachlorobenzene	1.0	U	0.61	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Hexachlorobutadiene	1.0	U	0.85	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Hexachloroethane	1.0	U	0.74	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Isophorone	1.0	U	0.96	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
N-Nitroso-di-n-propylamine	2.5	U	1.1	2.5	5.0	µg/L	1	6/17/2016 12:19 AM
N-Nitrosodimethylamine	1.0	UQ	0.63	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
N-Nitrosodiphenylamine	1.0	U	0.66	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Nitrobenzene	2.5	U	1.2	2.5	3.0	µg/L	1	6/17/2016 12:19 AM
Pentachlorophenol	1.0	U	0.92	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Phenol	1.0	U	0.60	1.0	5.0	µg/L	1	6/17/2016 12:19 AM
Surr: 2,4,6-Tribromophenol	99.1			43-140		%Rec	1	6/17/2016 12:19 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 3:00:00 PM
Project: Camp Hero
Lab ID: 1606337-007 **Matrix:** Groundwater
Client Sample ID: WDS-SB22-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	68.6			44-119		%Rec	1	6/17/2016 12:19 AM
Surr: 2-Fluorophenol	37.2			19-119		%Rec	1	6/17/2016 12:19 AM
Surr: Nitrobenzene-d5	66.4			44-120		%Rec	1	6/17/2016 12:19 AM
Surr: Phenol-d5	24.5	Q		30-130		%Rec	1	6/17/2016 12:19 AM
Surr: Terphenyl-d14	95.6			50-134		%Rec	1	6/17/2016 12:19 AM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
2-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Acenaphthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Benzo(b)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Fluorene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Naphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Phenanthrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:23 PM
Surr: 2-Fluorobiphenyl	43.7	Q		53-106		%Rec	1	6/17/2016 6:23 PM
Surr: Nitrobenzene-d5	40.7	Q		55-111		%Rec	1	6/17/2016 6:23 PM
Surr: Terphenyl-d14	79.0			58-132		%Rec	1	6/17/2016 6:23 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/15/2016 5:42 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/15/2016 5:42 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/15/2016 5:42 PM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/15/2016 5:42 PM
Acetone	0.60	U	0.56	0.60	10	µg/L	1	6/15/2016 5:42 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/15/2016 5:42 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 3:00:00 PM
Project: Camp Hero
Lab ID: 1606337-007 **Matrix:** Groundwater
Client Sample ID: WDS-SB22-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/15/2016 5:42 PM
Chloroform	1.8		0.46	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/15/2016 5:42 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Vinyl acetate	0.60	UY	0.37	0.60	5.0	µg/L	1	6/15/2016 5:42 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/15/2016 5:42 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/15/2016 5:42 PM
Surr: 4-Bromofluorobenzene	91.3			85-114		%Rec	1	6/15/2016 5:42 PM
Surr: Dibromofluoromethane	102			80-119		%Rec	1	6/15/2016 5:42 PM
Surr: Toluene-d8	94.8			89-112		%Rec	1	6/15/2016 5:42 PM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/8/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606337-008 **Matrix:** Groundwater
Client Sample ID: H11-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.039	U	0.031	0.039	0.098	µg/L	1	6/24/2016 9:35 PM
Aroclor 1221	0.039	U	0.029	0.039	0.098	µg/L	1	6/24/2016 9:35 PM
Aroclor 1232	0.040	U	0.040	0.040	0.20	µg/L	1	6/24/2016 9:35 PM
Aroclor 1242	0.039	U	0.036	0.039	0.20	µg/L	1	6/24/2016 9:35 PM
Aroclor 1248	0.039	U	0.030	0.039	0.098	µg/L	1	6/24/2016 9:35 PM
Aroclor 1254	0.039	U	0.039	0.039	0.20	µg/L	1	6/24/2016 9:35 PM
Aroclor 1260	0.039	U	0.034	0.039	0.20	µg/L	1	6/24/2016 9:35 PM
Aroclor 1262	0.098	U	0.050	0.098	0.20	µg/L	1	6/24/2016 9:35 PM
Aroclor 1268	0.039	U	0.027	0.039	0.098	µg/L	1	6/24/2016 9:35 PM
Surr: Tetrachloro-m-xylene	67.8			40-135		%Rec	1	6/24/2016 9:35 PM
Surr: Decachlorobiphenyl	57.1			40-135		%Rec	1	6/24/2016 9:35 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	39,000		28	50	1,000	µg/L	100	7/25/2016 5:26 PM
Arsenic	120	G	0.61	1.0	1.5	µg/L	5	7/25/2016 1:37 PM
Barium	340		0.18	0.50	25	µg/L	5	7/25/2016 1:37 PM
Beryllium	10	U	5.0	10	20	µg/L	100	7/25/2016 5:26 PM
Cadmium	0.45	J	0.27	0.50	1.0	µg/L	5	7/25/2016 1:37 PM
Calcium	13,000	J	1,800	2,500	20,000	µg/L	100	7/25/2016 3:40 PM
Chromium	180	JG	6.1	10	200	µg/L	100	7/25/2016 3:40 PM
Cobalt	20	J	2.4	10	100	µg/L	100	7/25/2016 3:40 PM
Copper	100		4.9	10	100	µg/L	100	7/25/2016 3:40 PM
Iron	180,000		950	2,500	4,000	µg/L	100	7/25/2016 3:40 PM
Lead	41		0.24	0.50	1.0	µg/L	5	7/25/2016 1:37 PM
Magnesium	9,800	J	810	2,500	10,000	µg/L	100	7/25/2016 3:40 PM
Manganese	1,300		5.3	10	100	µg/L	100	7/25/2016 3:40 PM
Nickel	56	J	4.1	10	200	µg/L	100	7/25/2016 3:40 PM
Potassium	7,400	J	2,100	2,500	10,000	µg/L	100	7/25/2016 3:40 PM
Selenium	1.9	J	1.5	2.5	5.0	µg/L	5	7/25/2016 1:37 PM
Sodium	10,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:26 PM
Thallium	0.91	J	0.16	0.50	2.0	µg/L	5	7/25/2016 1:37 PM
Vanadium	130		9.8	10	80	µg/L	100	7/25/2016 3:40 PM
Zinc	90		1.8	2.5	50	µg/L	5	7/25/2016 1:37 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.58	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:24 AM
Silver	0.57	J	0.24	0.50	1.5	µg/L	5	6/16/2016 11:24 AM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.056		0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
2-Methylnaphthalene	0.11		0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Acenaphthene	0.023		0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM

RTI Laboratories - Analytical Report

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/8/2016 2:00:00 PM
Project:	Camp Hero		
Lab ID:	1606337-008	**Matrix:**	Groundwater
Client Sample ID:	H11-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Benzo(b)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Fluoranthene	0.028		0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Fluorene	0.048		0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Naphthalene	0.059		0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Phenanthrene	0.038		0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Pyrene	0.021		0.020	0.020	0.020	µg/L	1	6/17/2016 6:51 PM
Surr: 2-Fluorobiphenyl	60.2			53-106		%Rec	1	6/17/2016 6:51 PM
Surr: Nitrobenzene-d5	61.8			55-111		%Rec	1	6/17/2016 6:51 PM
Surr: Terphenyl-d14	78.4			58-132		%Rec	1	6/17/2016 6:51 PM

RTI Laboratories - DATES REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606337-001A	TB-GW-060816-01	6/8/2016 9:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/15/2016 11:27 AM	6/15/2016 11:27 AM
1606337-002A	WDS-SB25-GW	6/8/2016 11:00 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/15/2016 3:21 PM	6/15/2016 3:21 PM
1606337-002B	WDS-SB25-GW	6/8/2016 11:00 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/14/2016 4:50 PM	6/16/2016 10:40 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 4:06 PM
1606337-002C	WDS-SB25-GW	6/8/2016 11:00 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/25/2016 11:15 AM
1606337-002D	WDS-SB25-GW	6/8/2016 11:00 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 12:40 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 3:27 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:20 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 6:25 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:17 AM
1606337-003A	WDS-SB26-GW	6/8/2016 10:05 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/15/2016 3:58 PM	6/15/2016 3:58 PM
1606337-003B	WDS-SB26-GW	6/8/2016 10:05 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/14/2016 4:50 PM	6/16/2016 11:05 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 4:33 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	7/21/2016 12:48 PM
1606337-003C	WDS-SB26-GW	6/8/2016 10:05 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/25/2016 11:39 AM
1606337-003D	WDS-SB26-GW	6/8/2016 10:05 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 12:42 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 3:29 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:21 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 6:26 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:18 AM
1606337-004A	WDS-SB26-GW DUP	6/8/2016 10:05 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/15/2016 4:24 PM	6/15/2016 4:24 PM

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WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606337-004B	WDS-SB26-GW DUP	6/8/2016 10:05 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/14/2016 4:50 PM	6/16/2016 11:29 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 5:00 PM
1606337-004C	WDS-SB26-GW DUP	6/8/2016 10:05 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/24/2016 8:22 PM
1606337-004D	WDS-SB26-GW DUP	6/8/2016 10:05 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 12:44 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 3:31 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:22 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 6:27 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:18 AM
1606337-005A	WDS-SB27-GW	6/8/2016 10:00 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/15/2016 4:50 PM	6/15/2016 4:50 PM
1606337-005B	WDS-SB27-GW	6/8/2016 10:00 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 5:28 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/15/2016 2:57 PM	6/17/2016 1:58 AM
1606337-005C	WDS-SB27-GW	6/8/2016 10:00 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 1:31 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 3:33 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:23 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 6:28 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:19 AM
1606337-006A	WDS-SB22-GW	6/8/2016 3:00 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/15/2016 5:16 PM	6/15/2016 5:16 PM
1606337-006B	WDS-SB22-GW	6/8/2016 3:00 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/14/2016 4:50 PM	6/16/2016 11:54 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 5:55 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	7/21/2016 1:14 PM
1606337-006C	WDS-SB22-GW	6/8/2016 3:00 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/24/2016 8:46 PM
1606337-006D	WDS-SB22-GW	6/8/2016 3:00 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 1:33 PM

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WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606337-006D	WDS-SB22-GW	6/8/2016 3:00 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 3:35 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:24 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 6:30 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 6:45 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/28/2016 7:13 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/28/2016 7:17 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:23 AM
1606337-007A	WDS-SB22-GW DUP	6/8/2016 3:00 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/15/2016 5:42 PM	6/15/2016 5:42 PM
1606337-007B	WDS-SB22-GW DUP	6/8/2016 3:00 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/14/2016 4:50 PM	6/17/2016 12:19 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 6:23 PM
1606337-007C	WDS-SB22-GW DUP	6/8/2016 3:00 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/25/2016 12:04 PM
1606337-007D	WDS-SB22-GW DUP	6/8/2016 3:00 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 1:35 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 3:37 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:25 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 6:31 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/28/2016 7:15 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/28/2016 7:19 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:23 AM
1606337-008A	H11-SB01-GW	6/8/2016 2:00 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 6:51 PM
1606337-008B	H11-SB01-GW	6/8/2016 2:00 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/24/2016 9:35 PM
1606337-008C	H11-SB01-GW	6/8/2016 2:00 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 1:37 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 3:40 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:26 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:24 AM

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WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40156

Sample ID:	MB-40156	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	PBW	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682887

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									UY
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									UY
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40156**

Sample ID:	MB-40156	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	PBW	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682887

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	5.0	5.0									UZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	29		25.00		115	43	140				
Surr: 2-Fluorobiphenyl	22		25.00		89.7	44	119				
Surr: 2-Fluorophenol	14		25.00		56.4	19	119				
Surr: Nitrobenzene-d5	22		25.00		88.9	44	120				
Surr: Phenol-d5	9.1		25.00		36.4	33	122				
Surr: Terphenyl-d14	27		25.00		110	50	134				

Sample ID:	LCS-40156	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	LCSW	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682888

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	12	5.0	20.00	0	59.2	29	116				

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Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40156**

Sample ID:	**LCS-40156**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/14/2016**	RunNo:	**86748**
Client ID:	**LCSW**	Batch ID:	**40156**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682888**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	11	5.0	20.00	0	55.2	32	111				
1,3-Dichlorobenzene	10	5.0	20.00	0	52.0	28	110				
1,4-Dichlorobenzene	11	5.0	20.00	0	53.2	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	97.1	53	123				
2,4,6-Trichlorophenol	20	4.0	20.00	0	100	50	125				
2,4-Dichlorophenol	19	5.0	20.00	0	95.4	47	121				
2,4-Dimethyl phenol	15	5.0	20.00	0	74.9	31	124				
2,4-Dinitrophenol	62	25	50.00	0	124	23	143				JY
2,4-Dinitrotoluene	21	5.0	20.00	0	105	57	128				
2,6-Dinitrotoluene	19	5.0	20.00	0	92.6	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	64.7	40	116				
2-Chlorophenol	16	5.0	20.00	0	77.7	38	117				
2-Methylphenol (o-Cresol)	15	5.0	20.00	0	74.1	30	117				
2-Nitroaniline	19	5.0	20.00	0	97.1	55	127				
2-Nitrophenol	19	5.0	20.00	0	94.6	47	123				Y
3,3´-Dichlorobenzidine	19	20	20.00	0	94.4	27	129				J
3-Nitroaniline	18	10	20.00	0	90.9	41	128				
3/4-Methylphenol [m/p-Cresol]	27	10	40.00	0	67.1	25	120				
4,6-Dinitro-2-methylphenol	25	10	20.00	0	125	44	137				Y
4-Bromophenyl phenyl ether	16	5.0	20.00	0	78.6	55	124				
4-Chloro-3-methylphenol	20	5.0	20.00	0	102	52	119				
4-Chloroaniline [p-Chloroaniline]	18	10	20.00	0	88.6	33	117				
4-Chlorophenyl phenyl ether	17	5.0	20.00	0	86.6	53	121				
4-Nitroaniline	17	10	20.00	0	87.2	50	130				
4-Nitrophenol	24	25	50.00	0	47.8	50	130				JQ
Benzoic acid	33	25	40.00	0	82.6	50	130				Z
Benzyl alcohol	14	25	20.00	0	71.6	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	75.6	48	120				
Bis(2-chloroethyl) ether	14	5.0	20.00	0	67.7	43	118				
Bis(2-chloroisopropyl)ether	13	5.0	20.00	0	66.3	37	130				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40156**

Sample ID:	LCS-40156	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	LCSW	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682888

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	20	5.0	20.00	0	99.2	55	135				
Butyl benzyl phthalate	20	5.0	20.00	0	98.1	53	134				
Carbazole	18	5.0	20.00	0	88.0	60	122				
Di-n-butyl phthalate	18	5.0	20.00	0	88.8	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	99.0	51	140				
Dibenzofuran	16	4.0	20.00	0	79.8	53	118				
Diethyl phthalate	19	5.0	20.00	0	96.2	56	125				
Dimethyl phthalate	19	5.0	20.00	0	92.6	45	127				
Hexachlorobenzene	16	5.0	20.00	0	79.4	53	125				
Hexachlorobutadiene	10	5.0	20.00	0	52.0	22	124				
Hexachloroethane	8.6	5.0	20.00	0	43.2	21	115				
Isophorone	15	5.0	20.00	0	77.4	42	124				
N-Nitroso-di-n-propylamine	15	5.0	20.00	0	73.5	50	130				
N-Nitrosodimethylamine	8.0	5.0	20.00	0	39.9	50	130				Q
N-Nitrosodiphenylamine	16	5.0	20.00	0	79.2	51	123				
Nitrobenzene	15	3.0	20.00	0	76.6	45	121				
Pentachlorophenol	23	5.0	20.00	0	113	35	138				
Phenol	8.3	5.0	20.00	0	41.6	34	121				
Surr: 2,4,6-Tribromophenol	29		25.00		117	43	140				
Surr: 2-Fluorobiphenyl	22		25.00		89.7	44	119				
Surr: 2-Fluorophenol	14		25.00		56.2	19	119				
Surr: Nitrobenzene-d5	23		25.00		90.2	44	120				
Surr: Phenol-d5	10		25.00		40.6	33	122				
Surr: Terphenyl-d14	26		25.00		106	50	134				

Sample ID:	1606387-005BMSD	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682893

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	12	4.8	19.05	0	61.0	29	116	10.88	6.55	25	
1,2-Dichlorobenzene	11	4.8	19.05	0	57.1	32	111	10.72	1.40	25	

RTI Laboratories - QC SUMMARY REPORT

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Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40156**

Sample ID:	**1606387-005BMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/14/2016**	RunNo:	**86748**
Client ID:	**ZZZZZZ**	Batch ID:	**40156**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682893**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	10	4.8	19.05	0	52.8	28	110	10.06	0.0779	25	
1,4-Dichlorobenzene	10	4.8	19.05	0	54.0	29	112	10.13	1.46	25	
2,4,5-Trichlorophenol	17	4.8	19.05	0	90.7	53	123	17.63	2.07	25	
2,4,6-Trichlorophenol	18	3.8	19.05	0	94.4	50	125	17.42	3.21	25	
2,4-Dichlorophenol	16	4.8	19.05	0	83.8	47	121	15.68	1.86	25	
2,4-Dimethyl phenol	14	4.8	19.05	0	74.1	31	124	13.39	5.25	25	
2,4-Dinitrophenol	58	24	47.62	0	122	23	143	62.77	8.04	25	JY
2,4-Dinitrotoluene	18	4.8	19.05	0	93.4	57	128	18.81	5.64	25	
2,6-Dinitrotoluene	16	4.8	19.05	0	84.4	57	124	16.39	2.01	25	
2-Chloronaphthalene	12	4.8	19.05	0	60.6	40	116	11.00	4.90	25	
2-Chlorophenol	12	4.8	19.05	0	65.0	38	117	12.24	1.26	25	
2-Methylphenol (o-Cresol)	12	4.8	19.05	0	63.6	30	117	12.03	0.624	25	
2-Nitroaniline	17	4.8	19.05	0	88.1	55	127	16.84	0.427	25	
2-Nitrophenol	17	4.8	19.05	0	87.5	47	123	15.98	4.20	25	Y
3,3´-Dichlorobenzidine	1.9	19	19.05	0	10.1	27	129	1.667	14.3	25	JQ
3-Nitroaniline	16	9.5	19.05	0	82.0	41	128	15.90	1.86	25	
3/4-Methylphenol [m/p-Cresol]	22	9.5	38.10	0	57.6	25	120	20.93	4.67	25	
4,6-Dinitro-2-methylphenol	23	9.5	19.05	0	120	44	137	24.86	8.24	25	Y
4-Bromophenyl phenyl ether	13	4.8	19.05	0	68.8	55	124	12.66	3.48	25	
4-Chloro-3-methylphenol	17	4.8	19.05	0	91.8	52	119	17.05	2.53	25	
4-Chloroaniline [p-Chloroaniline]	15	9.5	19.05	0	77.6	33	117	13.53	8.84	25	
4-Chlorophenyl phenyl ether	14	4.8	19.05	0	75.6	53	121	13.64	5.44	25	
4-Nitroaniline	16	9.5	19.05	0	83.0	50	130	16.26	2.84	25	
4-Nitrophenol	24	24	47.62	0	51.0	50	130	25.87	6.41	25	
Benzoic acid	41	24	38.10	0	107	50	130	45.39	10.9	25	Z
Benzyl alcohol	12	24	19.05	0	63.8	31	112	11.23	8.01	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.05	0	66.8	48	120	12.20	4.31	25	
Bis(2-chloroethyl) ether	11	4.8	19.05	0	59.8	43	118	11.22	1.46	25	
Bis(2-chloroisopropyl)ether	11	4.8	19.05	0	59.6	37	130	11.23	1.12	25	Z
Bis(2-ethylhexyl) phthalate	16	4.8	19.05	0	86.2	55	135	15.76	4.01	25	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40156

Sample ID:	1606387-005BMSD	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682893

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	16	4.8	19.05	0	84.0	53	134	15.58	2.61	25	
Carbazole	18	4.8	19.05	3.252	77.7	60	122	18.66	3.27	25	
Di-n-butyl phthalate	15	4.8	19.05	0	77.0	59	127	14.89	1.53	25	
Di-n-octyl phthalate	16	4.8	19.05	0	85.9	51	140	15.87	2.98	25	
Dibenzofuran	17	3.8	19.05	4.234	66.3	53	118	14.98	11.8	25	
Diethyl phthalate	17	4.8	19.05	0	86.9	56	125	17.29	4.38	25	
Dimethyl phthalate	16	4.8	19.05	0	82.3	45	127	15.37	1.96	25	
Hexachlorobenzene	13	4.8	19.05	0	68.5	53	125	12.60	3.51	25	
Hexachlorobutadiene	11	4.8	19.05	0	56.2	22	124	10.08	6.03	25	
Hexachloroethane	8.6	4.8	19.05	0	45.4	21	115	8.245	4.66	25	
Isophorone	13	4.8	19.05	0	66.6	42	124	12.32	2.82	25	
N-Nitroso-di-n-propylamine	13	4.8	19.05	0	67.5	50	130	12.90	0.348	25	
N-Nitrosodimethylamine	6.3	4.8	19.05	0	33.2	50	130	6.176	2.21	25	Q
N-Nitrosodiphenylamine	14	4.8	19.05	0	74.2	51	123	14.33	1.34	25	
Nitrobenzene	12	2.9	19.05	0	65.0	45	121	12.09	2.47	25	
Pentachlorophenol	27	4.8	19.05	0	140	35	138	30.73	13.9	25	Q
Phenol	5.7	4.8	19.05	0	29.8	34	121	6.559	14.4	25	Q
Surr: 2,4,6-Tribromophenol	26		23.81		109	43	140		0	25	
Surr: 2-Fluorobiphenyl	19		23.81		78.4	44	119		0	25	
Surr: 2-Fluorophenol	10		23.81		43.1	19	119		0	25	
Surr: Nitrobenzene-d5	18		23.81		74.5	44	120		0	25	
Surr: Phenol-d5	7.5		23.81		31.6	33	122		0	25	Q
Surr: Terphenyl-d14	21		23.81		89.1	50	134		0	25	

Sample ID:	1606387-005BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682910

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	4.9	19.61	0	55.5	29	116				
1,2-Dichlorobenzene	11	4.9	19.61	0	54.6	32	111				
1,3-Dichlorobenzene	10	4.9	19.61	0	51.3	28	110				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40156

Sample ID:	1606387-005BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682910

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	10	4.9	19.61	0	51.6	29	112				
2,4,5-Trichlorophenol	18	4.9	19.61	0	89.9	53	123				
2,4,6-Trichlorophenol	17	3.9	19.61	0	88.9	50	125				
2,4-Dichlorophenol	16	4.9	19.61	0	80.0	47	121				
2,4-Dimethyl phenol	13	4.9	19.61	0	68.3	31	124				
2,4-Dinitrophenol	63	25	49.02	0	128	23	143				JY
2,4-Dinitrotoluene	19	4.9	19.61	0	96.0	57	128				
2,6-Dinitrotoluene	16	4.9	19.61	0	83.6	57	124				
2-Chloronaphthalene	11	4.9	19.61	0	56.1	40	116				
2-Chlorophenol	12	4.9	19.61	0	62.4	38	117				
2-Methylphenol (o-Cresol)	12	4.9	19.61	0	61.4	30	117				
2-Nitroaniline	17	4.9	19.61	0	85.9	55	127				
2-Nitrophenol	16	4.9	19.61	0	81.5	47	123				Y
3,3´-Dichlorobenzidine	1.7	20	19.61	0	8.50	27	129				JQ
3-Nitroaniline	16	9.8	19.61	0	81.1	41	128				
3/4-Methylphenol [m/p-Cresol]	21	9.8	39.22	0	53.4	25	120				
4,6-Dinitro-2-methylphenol	25	9.8	19.61	0	127	44	137				Y
4-Bromophenyl phenyl ether	13	4.9	19.61	0	64.6	55	124				
4-Chloro-3-methylphenol	17	4.9	19.61	0	87.0	52	119				
4-Chloroaniline [p-Chloroaniline]	14	9.8	19.61	0	69.0	33	117				
4-Chlorophenyl phenyl ether	14	4.9	19.61	0	69.6	53	121				
4-Nitroaniline	16	9.8	19.61	0	83.0	50	130				
4-Nitrophenol	26	25	49.02	0	52.8	50	130				
Benzoic acid	45	25	39.22	0	116	50	130				Z
Benzyl alcohol	11	25	19.61	0	57.2	31	112				J
Bis(2-chloroethoxy) methane	12	4.9	19.61	0	62.2	48	120				
Bis(2-chloroethyl) ether	11	4.9	19.61	0	57.2	43	118				
Bis(2-chloroisopropyl)ether	11	4.9	19.61	0	57.2	37	130				Z
Bis(2-ethylhexyl) phthalate	16	4.9	19.61	0	80.4	55	135				
Butyl benzyl phthalate	16	4.9	19.61	0	79.4	53	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40156**

Sample ID:	1606387-005BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682910

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	19	4.9	19.61	3.252	78.6	60	122				
Di-n-butyl phthalate	15	4.9	19.61	0	76.0	59	127				
Di-n-octyl phthalate	16	4.9	19.61	0	81.0	51	140				
Dibenzofuran	15	3.9	19.61	4.234	54.8	53	118				
Diethyl phthalate	17	4.9	19.61	0	88.2	56	125				
Dimethyl phthalate	15	4.9	19.61	0	78.4	45	127				
Hexachlorobenzene	13	4.9	19.61	0	64.2	53	125				
Hexachlorobutadiene	10	4.9	19.61	0	51.4	22	124				
Hexachloroethane	8.2	4.9	19.61	0	42.0	21	115				
Isophorone	12	4.9	19.61	0	62.9	42	124				
N-Nitroso-di-n-propylamine	13	4.9	19.61	0	65.8	50	130				
N-Nitrosodimethylamine	6.2	4.9	19.61	0	31.5	50	130				Q
N-Nitrosodiphenylamine	14	4.9	19.61	0	73.1	51	123				
Nitrobenzene	12	2.9	19.61	0	61.6	45	121				
Pentachlorophenol	31	4.9	19.61	0	157	35	138				Q
Phenol	6.6	4.9	19.61	0	33.4	34	121				Q
Surr: 2,4,6-Tribromophenol	28		24.51		115	43	140				
Surr: 2-Fluorobiphenyl	19		24.51		77.4	44	119				
Surr: 2-Fluorophenol	11		24.51		43.1	19	119				
Surr: Nitrobenzene-d5	18		24.51		74.0	44	120				
Surr: Phenol-d5	7.7		24.51		31.6	33	122				Q
Surr: Terphenyl-d14	22		24.51		91.7	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40160**

Sample ID:	MB-40160	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	PBW	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1698350

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									U
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.24		0.5000		47.2	53	106				Q
Surr: Nitrobenzene-d5	0.24		0.5000		48.7	55	111				Q
Surr: Terphenyl-d14	0.43		0.5000		87.0	58	132				

Sample ID:	LCS-40160	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	LCSW	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1698351

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.21	0.020	0.4000	0	53.0	41	115				
2-Methylnaphthalene	0.25	0.020	0.4000	0	61.5	39	114				
Acenaphthene	0.25	0.020	0.4000	0	61.8	48	114				
Acenaphthylene	0.24	0.020	0.4000	0	59.7	35	121				
Anthracene	0.28	0.020	0.4000	0	70.9	53	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40160

Sample ID:	LCS-40160	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	LCSW	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1698351

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.34	0.020	0.4000	0	84.2	59	120				
Benzo(a)pyrene	0.31	0.020	0.4000	0	76.5	53	120				
Benzo(b)fluoranthene	0.46	0.020	0.4000	0	114	53	126				
Benzo(g,h,i)perylene	0.36	0.020	0.4000	0	89.5	44	128				
Benzo(k)fluoranthene	0.33	0.020	0.4000	0	82.0	54	125				
Chrysene	0.33	0.020	0.4000	0	83.7	57	120				
Dibenzo(a,h)anthracene	0.43	0.020	0.4000	0	108	44	131				
Fluoranthene	0.34	0.020	0.4000	0	84.0	58	120				
Fluorene	0.26	0.020	0.4000	0	65.7	50	118				
Indeno(1,2,3-cd)pyrene	0.38	0.020	0.4000	0	95.6	48	130				
Naphthalene	0.24	0.020	0.4000	0	60.0	43	114				
Phenanthrene	0.27	0.020	0.4000	0	66.9	53	115				
Pyrene	0.29	0.020	0.4000	0	72.8	53	124				
Surr: 2-Fluorobiphenyl	0.29		0.5000		57.7	53	106				
Surr: Nitrobenzene-d5	0.31		0.5000		61.4	55	111				
Surr: Terphenyl-d14	0.46		0.5000		91.8	58	132				

Sample ID:	1606387-005BMS	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	ZZZZZZ	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1700089

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	3.7	0.020	0.4040	11.92	-2,050	41	115				JQ
2-Methylnaphthalene	3.6	0.020	0.4040	11.97	-2,070	39	114				JQ
Acenaphthene	3.5	0.020	0.4040	10.94	-1,850	48	114				JQ
Acenaphthylene	0.38	0.020	0.4040	0	92.8	35	121				
Anthracene	0.52	0.020	0.4040	10.89	-2,570	53	119				Q
Benz(a)anthracene	0.31	0.020	0.4040	0	77.9	59	120				
Benzo(a)pyrene	0.27	0.020	0.4040	0	67.9	53	120				
Benzo(b)fluoranthene	0.40	0.020	0.4040	0	98.3	53	126				
Benzo(g,h,i)perylene	0.16	0.020	0.4040	0	38.7	44	128				Q
Benzo(k)fluoranthene	0.26	0.020	0.4040	0	63.3	54	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40160**

Sample ID:	1606387-005BMS	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	ZZZZZZ	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1700089

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.30	0.020	0.4040	0	73.2	57	120				
Dibenzo(a,h)anthracene	0.22	0.020	0.4040	0	53.2	44	131				
Fluoranthene	0.97	0.020	0.4040	1.645	-167	58	120				Q
Fluorene	2.1	0.020	0.4040	5.494	-848	50	118				JQ
Indeno(1,2,3-cd)pyrene	0.19	0.020	0.4040	0	47.1	48	130				Q
Naphthalene	15	0.020	0.4040	97.29	-20,500	43	114				JQ
Phenanthrene	3.9	0.020	0.4040	12.56	-2,150	53	115				JQ
Pyrene	0.56	0.020	0.4040	0	138	53	124				Q
Surr: 2-Fluorobiphenyl	0.18		0.5051		35.9	53	106				Q
Surr: Nitrobenzene-d5	0.19		0.5051		37.3	55	111				Q
Surr: Terphenyl-d14	0.43		0.5051		86.0	58	132				

Sample ID:	1606387-005BMSD	Samp Type:	MSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	ZZZZZZ	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1700090

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	4.2	0.020	0.3960	11.92	-1,950	41	115	3.656	13.8	20	JQ
2-Methylnaphthalene	4.6	0.020	0.3960	11.97	-1,870	39	114	3.606	23.5	20	JRQ
Acenaphthene	4.1	0.020	0.3960	10.94	-1,740	48	114	3.480	15.3	20	JQ
Acenaphthylene	0.39	0.020	0.3960	0	99.0	35	121	0.3751	4.41	20	
Anthracene	0.49	0.020	0.3960	10.89	-2,630	53	119	0.5186	5.46	20	Q
Benz(a)anthracene	0.26	0.020	0.3960	0	66.6	59	120	0.3147	17.6	20	
Benzo(a)pyrene	0.19	0.020	0.3960	0	47.2	53	120	0.2741	37.9	20	RQ
Benzo(b)fluoranthene	0.26	0.020	0.3960	0	64.7	53	126	0.3971	43.1	20	R
Benzo(g,h,i)perylene	0.088	0.020	0.3960	0	22.3	44	128	0.1562	55.5	20	RQ
Benzo(k)fluoranthene	0.21	0.020	0.3960	0	52.2	54	125	0.2556	21.1	20	RQ
Chrysene	0.25	0.020	0.3960	0	62.2	57	120	0.2957	18.3	20	
Dibenzo(a,h)anthracene	0.12	0.020	0.3960	0	29.7	44	131	0.2150	58.5	20	RQ
Fluoranthene	1.1	0.020	0.3960	1.645	-133	58	120	0.9705	14.2	20	JQ
Fluorene	2.4	0.020	0.3960	5.494	-775	50	118	2.067	16.0	20	JQ
Indeno(1,2,3-cd)pyrene	0.11	0.020	0.3960	0	26.6	48	130	0.1902	57.3	20	RQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40160**

Sample ID:	**1606387-005BMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/15/2016**	RunNo:	**87458**
Client ID:	**ZZZZZZ**	Batch ID:	**40160**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/17/2016**	SeqNo:	**1700090**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	15	0.020	0.3960	97.29	-20,700	43	114	14.55	5.84	20	JQ
Phenanthrene	3.4	0.020	0.3960	12.56	-2,310	53	115	3.897	13.5	20	JQ
Pyrene	0.73	0.020	0.3960	0	184	53	124	0.5572	26.8	20	RQ
Surr: 2-Fluorobiphenyl	0.20		0.4950		40.5	53	106		0	20	Q
Surr: Nitrobenzene-d5	0.19		0.4950		39.2	55	111		0	20	Q
Surr: Terphenyl-d14	0.33		0.4950		66.2	58	132		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40163**

Sample ID:	MB-40163	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	PBW	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682208	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	0.87	2.5									JG	
Silver	1.5	1.5									U	

Sample ID:	LCS-40163	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	LCSW	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682209	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	440	2.5	400.0	0	109	85	117				G	
Silver	430	1.5	400.0	0	108	85	116					

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	ZZZZZZ	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682211	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	410	2.5	400.0	1.030	103	85	117				G	
Silver	400	1.5	400.0	0.3000	98.9	85	116					

Sample ID:	1606387-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	ZZZZZZ	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682213	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	440	2.5	400.0	1.030	109	85	117	413.2	5.29	20	G	
Silver	410	1.5	400.0	0.3000	102	85	116	396.1	3.28	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	**MB-40170**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/15/2016**	RunNo:	**86748**
Client ID:	**PBW**	Batch ID:	**40170**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682889**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									UY
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									UY
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	MB-40170	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	PBW	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682889

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	5.0	5.0									UZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	24		25.00		97.1	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		62.3	44	119				
Surr: 2-Fluorophenol	9.6		25.00		38.5	19	119				
Surr: Nitrobenzene-d5	16		25.00		64.8	44	120				
Surr: Phenol-d5	6.8		25.00		27.1	33	122				Q
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	LCS-40170	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	LCSW	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682890

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	5.0	20.00	0	53.4	29	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	LCS-40170	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	LCSW	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682890

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	11	5.0	20.00	0	53.8	32	111				
1,3-Dichlorobenzene	9.2	5.0	20.00	0	46.1	28	110				
1,4-Dichlorobenzene	9.7	5.0	20.00	0	48.3	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	96.2	53	123				
2,4,6-Trichlorophenol	20	4.0	20.00	0	99.2	50	125				
2,4-Dichlorophenol	19	5.0	20.00	0	93.6	47	121				
2,4-Dimethyl phenol	16	5.0	20.00	0	78.5	31	124				
2,4-Dinitrophenol	62	25	50.00	0	125	23	143				JY
2,4-Dinitrotoluene	21	5.0	20.00	0	105	57	128				
2,6-Dinitrotoluene	19	5.0	20.00	0	94.6	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.0	40	116				
2-Chlorophenol	15	5.0	20.00	0	74.4	38	117				
2-Methylphenol (o-Cresol)	15	5.0	20.00	0	73.0	30	117				
2-Nitroaniline	19	5.0	20.00	0	96.1	55	127				
2-Nitrophenol	19	5.0	20.00	0	95.2	47	123				Y
3,3´-Dichlorobenzidine	20	20	20.00	0	99.2	27	129				J
3-Nitroaniline	19	10	20.00	0	97.0	41	128				
3/4-Methylphenol [m/p-Cresol]	26	10	40.00	0	65.8	25	120				
4,6-Dinitro-2-methylphenol	26	10	20.00	0	129	44	137				Y
4-Bromophenyl phenyl ether	15	5.0	20.00	0	76.8	55	124				
4-Chloro-3-methylphenol	20	5.0	20.00	0	102	52	119				
4-Chloroaniline [p-Chloroaniline]	18	10	20.00	0	89.0	33	117				
4-Chlorophenyl phenyl ether	17	5.0	20.00	0	85.1	53	121				
4-Nitroaniline	18	10	20.00	0	90.9	50	130				
4-Nitrophenol	25	25	50.00	0	50.0	50	130				
Benzoic acid	24	25	40.00	0	61.2	50	130				JZ
Benzyl alcohol	14	25	20.00	0	69.4	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	75.2	48	120				
Bis(2-chloroethyl) ether	13	5.0	20.00	0	67.2	43	118				
Bis(2-chloroisopropyl)ether	13	5.0	20.00	0	66.9	37	130				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	LCS-40170	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	LCSW	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682890

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	20	5.0	20.00	0	102	55	135				
Butyl benzyl phthalate	20	5.0	20.00	0	101	53	134				
Carbazole	18	5.0	20.00	0	90.4	60	122				
Di-n-butyl phthalate	18	5.0	20.00	0	90.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	100	51	140				
Dibenzofuran	16	4.0	20.00	0	79.2	53	118				
Diethyl phthalate	19	5.0	20.00	0	94.3	56	125				
Dimethyl phthalate	18	5.0	20.00	0	89.3	45	127				
Hexachlorobenzene	14	5.0	20.00	0	70.9	53	125				
Hexachlorobutadiene	7.8	5.0	20.00	0	39.2	22	124				
Hexachloroethane	7.4	5.0	20.00	0	36.9	21	115				
Isophorone	15	5.0	20.00	0	74.8	42	124				
N-Nitroso-di-n-propylamine	15	5.0	20.00	0	73.2	50	130				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	50	130				Q
N-Nitrosodiphenylamine	16	5.0	20.00	0	80.2	51	123				
Nitrobenzene	14	3.0	20.00	0	72.3	45	121				
Pentachlorophenol	23	5.0	20.00	0	116	35	138				
Phenol	7.8	5.0	20.00	0	38.9	34	121				
Surr: 2,4,6-Tribromophenol	28		25.00		111	43	140				
Surr: 2-Fluorobiphenyl	20		25.00		78.5	44	119				
Surr: 2-Fluorophenol	13		25.00		52.0	19	119				
Surr: Nitrobenzene-d5	21		25.00		82.8	44	120				
Surr: Phenol-d5	9.4		25.00		37.7	33	122				
Surr: Terphenyl-d14	26		25.00		104	50	134				

Sample ID:	1606422-002BMSD	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682896

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.2	4.7	18.69	0	33.1	29	116	4.327	35.4	25	R
1,2-Dichlorobenzene	5.8	4.7	18.69	0	31.2	32	111	4.206	32.2	25	RQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	**1606422-002BMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/15/2016**	RunNo:	**86748**
Client ID:	**ZZZZZZ**	Batch ID:	**40170**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682896**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	5.3	4.7	18.69	0	28.2	28	110	3.850	31.0	25	R
1,4-Dichlorobenzene	5.3	4.7	18.69	0	28.4	29	112	3.897	30.5	25	RQ
2,4,5-Trichlorophenol	15	4.7	18.69	0	82.9	53	123	12.43	22.0	25	
2,4,6-Trichlorophenol	16	3.7	18.69	0	83.3	50	125	10.14	42.2	25	R
2,4-Dichlorophenol	13	4.7	18.69	0	72.0	47	121	8.533	44.8	25	R
2,4-Dimethyl phenol	12	4.7	18.69	0	64.4	31	124	7.561	45.8	25	R
2,4-Dinitrophenol	59	23	46.73	0	127	23	143	56.70	4.73	25	JY
2,4-Dinitrotoluene	17	4.7	18.69	0	93.4	57	128	17.07	2.22	25	
2,6-Dinitrotoluene	15	4.7	18.69	0	81.5	57	124	12.35	20.9	25	
2-Chloronaphthalene	8.7	4.7	18.69	0	46.4	40	116	5.748	40.5	25	R
2-Chlorophenol	9.3	4.7	18.69	0	49.8	38	117	6.355	37.7	25	R
2-Methylphenol (o-Cresol)	10	4.7	18.69	0	53.6	30	117	6.514	42.5	25	R
2-Nitroaniline	15	4.7	18.69	0	81.8	55	127	12.67	18.7	25	
2-Nitrophenol	12	4.7	18.69	0	65.8	47	123	8.458	37.1	25	RY
3,3´-Dichlorobenzidine	17	19	18.69	0	93.4	27	129	17.99	3.01	25	J
3-Nitroaniline	16	9.3	18.69	0	87.5	41	128	15.99	2.20	25	
3/4-Methylphenol [m/p-Cresol]	19	9.3	37.38	0	49.8	25	120	12.13	42.2	25	R
4,6-Dinitro-2-methylphenol	22	9.3	18.69	0	119	44	137	22.98	3.64	25	Y
4-Bromophenyl phenyl ether	11	4.7	18.69	0	59.8	55	124	9.570	15.6	25	
4-Chloro-3-methylphenol	17	4.7	18.69	0	88.6	52	119	11.94	32.4	25	R
4-Chloroaniline [p-Chloroaniline]	15	9.3	18.69	0	79.4	33	117	11.23	27.6	25	R
4-Chlorophenyl phenyl ether	12	4.7	18.69	0	66.0	53	121	9.000	31.2	25	R
4-Nitroaniline	17	9.3	18.69	0	88.4	50	130	16.55	0.226	25	
4-Nitrophenol	21	23	46.73	0	45.8	50	130	21.03	1.67	25	JQ
Benzoic acid	33	23	37.38	0	88.8	50	130	26.99	20.6	25	Z
Benzyl alcohol	9.7	23	18.69	0	52.0	31	112	6.925	33.6	25	JR
Bis(2-chloroethoxy) methane	10	4.7	18.69	0	55.3	48	120	6.907	39.8	25	R
Bis(2-chloroethyl) ether	8.1	4.7	18.69	0	43.6	43	118	5.785	33.9	25	R
Bis(2-chloroisopropyl)ether	8.1	4.7	18.69	0	43.2	37	130	5.645	35.5	25	RZ
Bis(2-ethylhexyl) phthalate	17	4.7	18.69	0	91.4	55	135	16.68	2.33	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	**1606422-002BMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/15/2016**	RunNo:	**86748**
Client ID:	**ZZZZZZ**	Batch ID:	**40170**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682896**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	17	4.7	18.69	0	90.4	53	134	16.56	2.01	25	
Carbazole	15	4.7	18.69	0	82.2	60	122	15.40	0.243	25	
Di-n-butyl phthalate	15	4.7	18.69	0	79.8	59	127	14.72	1.32	25	
Di-n-octyl phthalate	17	4.7	18.69	0	91.4	51	140	16.38	4.24	25	
Dibenzofuran	11	3.7	18.69	0	58.8	53	118	7.897	32.7	25	R
Diethyl phthalate	16	4.7	18.69	0	86.2	56	125	14.91	7.72	25	
Dimethyl phthalate	15	4.7	18.69	0	81.5	45	127	12.21	22.0	25	
Hexachlorobenzene	11	4.7	18.69	0	58.9	53	125	9.757	12.1	25	
Hexachlorobutadiene	5.0	4.7	18.69	0	26.7	22	124	3.570	33.0	25	R
Hexachloroethane	4.3	4.7	18.69	0	22.8	21	115	3.121	31.1	25	JR
Isophorone	11	4.7	18.69	0	60.0	42	124	7.009	46.2	25	R
N-Nitroso-di-n-propylamine	10	4.7	18.69	0	55.4	50	130	6.963	39.1	25	R
N-Nitrosodimethylamine	5.2	4.7	18.69	0	27.7	50	130	3.888	28.5	25	RQ
N-Nitrosodiphenylamine	13	4.7	18.69	0	68.5	51	123	11.72	8.84	25	
Nitrobenzene	9.3	2.8	18.69	0	49.8	45	121	6.542	34.8	25	R
Pentachlorophenol	20	4.7	18.69	0	107	35	138	19.42	3.27	25	
Phenol	4.5	4.7	18.69	0	24.0	34	121	2.336	62.8	25	JRQ
Surr: 2,4,6-Tribromophenol	24		23.36		103	43	140		0	25	
Surr: 2-Fluorobiphenyl	15		23.36		63.7	44	119		0	25	
Surr: 2-Fluorophenol	7.9		23.36		33.9	19	119		0	25	
Surr: Nitrobenzene-d5	14		23.36		58.8	44	120		0	25	
Surr: Phenol-d5	6.0		23.36		25.5	33	122		0	25	Q
Surr: Terphenyl-d14	23		23.36		98.6	50	134		0	25	

Sample ID:	**1606422-008BMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/15/2016**	RunNo:	**86748**
Client ID:	**ZZZZZZ**	Batch ID:	**40170**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682899**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.0	4.8	19.23	0	47.1	29	116	7.951	12.9	25	
1,2-Dichlorobenzene	8.8	4.8	19.23	0	45.6	32	111	7.544	15.1	25	
1,3-Dichlorobenzene	8.0	4.8	19.23	0	41.4	28	110	6.777	16.1	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	**1606422-008BMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/15/2016**	RunNo:	**86748**
Client ID:	**ZZZZZZ**	Batch ID:	**40170**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682899**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	8.2	4.8	19.23	0	42.5	29	112	6.670	20.3	25	
2,4,5-Trichlorophenol	18	4.8	19.23	0	91.7	53	123	16.17	8.64	25	
2,4,6-Trichlorophenol	18	3.8	19.23	0	91.8	50	125	16.45	7.08	25	
2,4-Dichlorophenol	16	4.8	19.23	0	84.6	47	121	14.20	13.6	25	
2,4-Dimethyl phenol	14	4.8	19.23	0	74.0	31	124	12.62	11.9	25	
2,4-Dinitrophenol	65	24	48.08	0	136	23	143	56.35	14.6	25	JY
2,4-Dinitrotoluene	20	4.8	19.23	0	102	57	128	18.40	6.50	25	
2,6-Dinitrotoluene	17	4.8	19.23	0	87.4	57	124	15.63	7.20	25	
2-Chloronaphthalene	10	4.8	19.23	0	54.2	40	116	9.583	8.31	25	
2-Chlorophenol	12	4.8	19.23	0	64.0	38	117	10.36	17.2	25	
2-Methylphenol (o-Cresol)	12	4.8	19.23	0	64.4	30	117	10.98	12.0	25	
2-Nitroaniline	17	4.8	19.23	0	89.6	55	127	15.97	7.59	25	
2-Nitrophenol	16	4.8	19.23	0	83.2	47	123	13.42	17.5	25	Y
3,3´-Dichlorobenzidine	19	19	19.23	0	96.2	27	129	17.29	6.75	25	J
3-Nitroaniline	17	9.6	19.23	0	87.2	41	128	16.43	2.06	25	
3/4-Methylphenol [m/p-Cresol]	22	9.6	38.46	0	57.4	25	120	20.35	8.14	25	
4,6-Dinitro-2-methylphenol	25	9.6	19.23	0	128	44	137	23.24	5.50	25	Y
4-Bromophenyl phenyl ether	11	4.8	19.23	0	57.0	55	124	10.63	3.06	25	
4-Chloro-3-methylphenol	18	4.8	19.23	0	93.9	52	119	16.60	8.40	25	
4-Chloroaniline [p-Chloroaniline]	16	9.6	19.23	0	85.8	33	117	15.73	4.79	25	
4-Chlorophenyl phenyl ether	12	4.8	19.23	0	64.8	53	121	12.09	3.05	25	
4-Nitroaniline	17	9.6	19.23	0	88.4	50	130	16.95	0.286	25	
4-Nitrophenol	23	24	48.08	0	46.9	50	130	20.71	8.50	25	JQ
Benzoic acid	36	24	38.46	0	93.5	50	130	28.77	22.2	25	Z
Benzyl alcohol	12	24	19.23	0	64.0	31	112	10.97	11.4	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.23	0	68.2	48	120	11.17	16.0	25	
Bis(2-chloroethyl) ether	11	4.8	19.23	0	55.5	43	118	9.058	16.3	25	
Bis(2-chloroisopropyl)ether	11	4.8	19.23	0	55.1	37	130	8.990	16.4	25	Z
Bis(2-ethylhexyl) phthalate	15	4.8	19.23	0	78.2	55	135	14.85	1.17	25	
Butyl benzyl phthalate	15	4.8	19.23	0	78.4	53	134	15.10	0.197	25	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682899

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	17	4.8	19.23	0	86.5	60	122	16.12	3.16	25	
Di-n-butyl phthalate	14	4.8	19.23	0	74.3	59	127	14.29	0.0196	25	
Di-n-octyl phthalate	15	4.8	19.23	0	76.1	51	140	14.93	2.08	25	
Dibenzofuran	12	3.8	19.23	0	64.2	53	118	11.95	3.17	25	
Diethyl phthalate	17	4.8	19.23	0	90.8	56	125	16.39	6.29	25	
Dimethyl phthalate	16	4.8	19.23	0	84.6	45	127	15.30	6.07	25	
Hexachlorobenzene	9.7	4.8	19.23	0	50.5	53	125	9.544	1.74	25	Q
Hexachlorobutadiene	6.7	4.8	19.23	0	35.0	22	124	5.913	12.9	25	
Hexachloroethane	6.5	4.8	19.23	0	33.8	21	115	5.485	16.9	25	
Isophorone	13	4.8	19.23	0	68.8	42	124	11.50	14.0	25	
N-Nitroso-di-n-propylamine	13	4.8	19.23	0	66.8	50	130	11.21	13.6	25	
N-Nitrosodimethylamine	6.6	4.8	19.23	0	34.2	50	130	5.534	17.1	25	Q
N-Nitrosodiphenylamine	14	4.8	19.23	0	74.0	51	123	13.36	6.25	25	
Nitrobenzene	12	2.9	19.23	0	64.1	45	121	10.01	20.7	25	
Pentachlorophenol	25	4.8	19.23	0	132	35	138	19.35	26.7	25	R
Phenol	4.8	4.8	19.23	0	25.1	34	121	4.456	7.98	25	Q
Surr: 2,4,6-Tribromophenol	26		24.04		110	43	140		0	25	
Surr: 2-Fluorobiphenyl	18		24.04		75.6	44	119		0	25	
Surr: 2-Fluorophenol	10		24.04		42.4	19	119		0	25	
Surr: Nitrobenzene-d5	18		24.04		73.2	44	120		0	25	
Surr: Phenol-d5	7.5		24.04		31.4	33	122		0	25	Q
Surr: Terphenyl-d14	25		24.04		102	50	134		0	25	

Sample ID:	1606422-002BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682911

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	4.3	4.7	18.69	0	23.2	29	116				JQ
1,2-Dichlorobenzene	4.2	4.7	18.69	0	22.5	32	111				JQ
1,3-Dichlorobenzene	3.9	4.7	18.69	0	20.6	28	110				JQ
1,4-Dichlorobenzene	3.9	4.7	18.69	0	20.9	29	112				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID:	1606422-002BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682911

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	12	4.7	18.69	0	66.5	53	123				
2,4,6-Trichlorophenol	10	3.7	18.69	0	54.2	50	125				
2,4-Dichlorophenol	8.5	4.7	18.69	0	45.6	47	121				Q
2,4-Dimethyl phenol	7.6	4.7	18.69	0	40.5	31	124				
2,4-Dinitrophenol	57	23	46.73	0	121	23	143				JY
2,4-Dinitrotoluene	17	4.7	18.69	0	91.4	57	128				
2,6-Dinitrotoluene	12	4.7	18.69	0	66.0	57	124				
2-Chloronaphthalene	5.7	4.7	18.69	0	30.8	40	116				Q
2-Chlorophenol	6.4	4.7	18.69	0	34.0	38	117				Q
2-Methylphenol (o-Cresol)	6.5	4.7	18.69	0	34.9	30	117				
2-Nitroaniline	13	4.7	18.69	0	67.8	55	127				
2-Nitrophenol	8.5	4.7	18.69	0	45.3	47	123				QY
3,3´-Dichlorobenzidine	18	19	18.69	0	96.2	27	129				J
3-Nitroaniline	16	9.3	18.69	0	85.6	41	128				
3/4-Methylphenol [m/p-Cresol]	12	9.3	37.38	0	32.4	25	120				
4,6-Dinitro-2-methylphenol	23	9.3	18.69	0	123	44	137				Y
4-Bromophenyl phenyl ether	9.6	4.7	18.69	0	51.2	55	124				Q
4-Chloro-3-methylphenol	12	4.7	18.69	0	63.9	52	119				
4-Chloroaniline [p-Chloroaniline]	11	9.3	18.69	0	60.1	33	117				
4-Chlorophenyl phenyl ether	9.0	4.7	18.69	0	48.2	53	121				Q
4-Nitroaniline	17	9.3	18.69	0	88.6	50	130				
4-Nitrophenol	21	23	46.73	0	45.0	50	130				JQ
Benzoic acid	27	23	37.38	0	72.2	50	130				Z
Benzyl alcohol	6.9	23	18.69	0	37.0	31	112				J
Bis(2-chloroethoxy) methane	6.9	4.7	18.69	0	37.0	48	120				Q
Bis(2-chloroethyl) ether	5.8	4.7	18.69	0	31.0	43	118				Q
Bis(2-chloroisopropyl)ether	5.6	4.7	18.69	0	30.2	37	130				QZ
Bis(2-ethylhexyl) phthalate	17	4.7	18.69	0	89.2	55	135				
Butyl benzyl phthalate	17	4.7	18.69	0	88.6	53	134				
Carbazole	15	4.7	18.69	0	82.4	60	122				

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID:	1606422-002BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682911

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	15	4.7	18.69	0	78.8	59	127				
Di-n-octyl phthalate	16	4.7	18.69	0	87.6	51	140				
Dibenzofuran	7.9	3.7	18.69	0	42.3	53	118				Q
Diethyl phthalate	15	4.7	18.69	0	79.8	56	125				
Dimethyl phthalate	12	4.7	18.69	0	65.3	45	127				
Hexachlorobenzene	9.8	4.7	18.69	0	52.2	53	125				Q
Hexachlorobutadiene	3.6	4.7	18.69	0	19.1	22	124				JQ
Hexachloroethane	3.1	4.7	18.69	0	16.7	21	115				JQ
Isophorone	7.0	4.7	18.69	0	37.5	42	124				Q
N-Nitroso-di-n-propylamine	7.0	4.7	18.69	0	37.2	50	130				Q
N-Nitrosodimethylamine	3.9	4.7	18.69	0	20.8	50	130				JQ
N-Nitrosodiphenylamine	12	4.7	18.69	0	62.7	51	123				
Nitrobenzene	6.5	2.8	18.69	0	35.0	45	121				Q
Pentachlorophenol	19	4.7	18.69	0	104	35	138				
Phenol	2.3	4.7	18.69	0	12.5	34	121				JQ
Surr: 2,4,6-Tribromophenol	23		23.36		98.3	43	140				
Surr: 2-Fluorobiphenyl	10		23.36		43.2	44	119				Q
Surr: 2-Fluorophenol	5.4		23.36		23.2	19	119				
Surr: Nitrobenzene-d5	9.7		23.36		41.3	44	120				Q
Surr: Phenol-d5	4.0		23.36		17.0	33	122				JQ
Surr: Terphenyl-d14	23		23.36		99.6	50	134				

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682912

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.0	4.9	19.42	0	41.0	29	116				
1,2-Dichlorobenzene	7.5	4.9	19.42	0	38.8	32	111				
1,3-Dichlorobenzene	6.8	4.9	19.42	0	34.9	28	110				
1,4-Dichlorobenzene	6.7	4.9	19.42	0	34.4	29	112				
2,4,5-Trichlorophenol	16	4.9	19.42	0	83.2	53	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	**1606422-008BMS**	Samp Type:	**MS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/15/2016**	RunNo:	**86748**
Client ID:	**ZZZZZZ**	Batch ID:	**40170**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682912**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	16	3.9	19.42	0	84.7	50	125				
2,4-Dichlorophenol	14	4.9	19.42	0	73.2	47	121				
2,4-Dimethyl phenol	13	4.9	19.42	0	65.0	31	124				
2,4-Dinitrophenol	56	24	48.54	0	116	23	143				JY
2,4-Dinitrotoluene	18	4.9	19.42	0	94.8	57	128				
2,6-Dinitrotoluene	16	4.9	19.42	0	80.5	57	124				
2-Chloronaphthalene	9.6	4.9	19.42	0	49.4	40	116				
2-Chlorophenol	10	4.9	19.42	0	53.4	38	117				
2-Methylphenol (o-Cresol)	11	4.9	19.42	0	56.6	30	117				
2-Nitroaniline	16	4.9	19.42	0	82.2	55	127				
2-Nitrophenol	13	4.9	19.42	0	69.1	47	123				Y
3,3´-Dichlorobenzidine	17	19	19.42	0	89.1	27	129				J
3-Nitroaniline	16	9.7	19.42	0	84.6	41	128				
3/4-Methylphenol [m/p-Cresol]	20	9.7	38.83	0	52.4	25	120				
4,6-Dinitro-2-methylphenol	23	9.7	19.42	0	120	44	137				Y
4-Bromophenyl phenyl ether	11	4.9	19.42	0	54.8	55	124				Q
4-Chloro-3-methylphenol	17	4.9	19.42	0	85.5	52	119				
4-Chloroaniline [p-Chloroaniline]	16	9.7	19.42	0	81.0	33	117				
4-Chlorophenyl phenyl ether	12	4.9	19.42	0	62.3	53	121				
4-Nitroaniline	17	9.7	19.42	0	87.3	50	130				
4-Nitrophenol	21	24	48.54	0	42.7	50	130				JQ
Benzoic acid	29	24	38.83	0	74.1	50	130				Z
Benzyl alcohol	11	24	19.42	0	56.5	31	112				J
Bis(2-chloroethoxy) methane	11	4.9	19.42	0	57.6	48	120				
Bis(2-chloroethyl) ether	9.1	4.9	19.42	0	46.7	43	118				
Bis(2-chloroisopropyl)ether	9.0	4.9	19.42	0	46.3	37	130				Z
Bis(2-ethylhexyl) phthalate	15	4.9	19.42	0	76.5	55	135				
Butyl benzyl phthalate	15	4.9	19.42	0	77.8	53	134				
Carbazole	16	4.9	19.42	0	83.0	60	122				
Di-n-butyl phthalate	14	4.9	19.42	0	73.6	59	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	ZZZZZZ	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682912

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	15	4.9	19.42	0	76.9	51	140				
Dibenzofuran	12	3.9	19.42	0	61.6	53	118				
Diethyl phthalate	16	4.9	19.42	0	84.4	56	125				
Dimethyl phthalate	15	4.9	19.42	0	78.8	45	127				
Hexachlorobenzene	9.5	4.9	19.42	0	49.2	53	125				Q
Hexachlorobutadiene	5.9	4.9	19.42	0	30.4	22	124				
Hexachloroethane	5.5	4.9	19.42	0	28.3	21	115				
Isophorone	12	4.9	19.42	0	59.2	42	124				
N-Nitroso-di-n-propylamine	11	4.9	19.42	0	57.8	50	130				
N-Nitrosodimethylamine	5.5	4.9	19.42	0	28.5	50	130				Q
N-Nitrosodiphenylamine	13	4.9	19.42	0	68.8	51	123				
Nitrobenzene	10	2.9	19.42	0	51.6	45	121				
Pentachlorophenol	19	4.9	19.42	0	99.7	35	138				
Phenol	4.5	4.9	19.42	0	23.0	34	121				JQ
Surr: 2,4,6-Tribromophenol	25		24.27		102	43	140				
Surr: 2-Fluorobiphenyl	16		24.27		67.8	44	119				
Surr: 2-Fluorophenol	8.8		24.27		36.4	19	119				
Surr: Nitrobenzene-d5	15		24.27		61.5	44	120				
Surr: Phenol-d5	6.8		24.27		28.2	33	122				Q
Surr: Terphenyl-d14	24		24.27		99.9	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	**MB-40174**	Samp Type:	**MBLK**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**6/16/2016**	RunNo:	**87545**
Client ID:	**PBW**	Batch ID:	**40174**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/25/2016**	SeqNo:	**1700956**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9.8	50									JG
Arsenic	1.5	1.5									U
Barium	25	25									U
Cadmium	1.0	1.0									U
Calcium	1,000	1,000									U
Chromium	10	10									UG
Cobalt	5.0	5.0									U
Copper	5.0	5.0									U
Iron	200	200									U
Lead	1.0	1.0									U
Magnesium	500	500									U
Manganese	5.0	5.0									U
Nickel	0.23	10									J
Potassium	500	500									U
Selenium	5.0	5.0									U
Sodium	500	500									U
Thallium	2.0	2.0									U
Vanadium	4.0	4.0									U
Zinc	50	50									U

Sample ID:	**LCS-40174**	Samp Type:	**LCS**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**6/16/2016**	RunNo:	**87545**
Client ID:	**LCSW**	Batch ID:	**40174**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/25/2016**	SeqNo:	**1701009**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	200	50	200.0	0	102	84	117				G
Arsenic	190	1.5	200.0	0	93.7	84	116				
Barium	180	25	200.0	0	90.9	86	114				
Cadmium	180	1.0	200.0	0	90.0	87	115				
Calcium	2,100	1,000	2,000	0	103	87	118				
Chromium	180	10	200.0	0	91.1	85	116				G
Cobalt	180	5.0	200.0	0	90.9	86	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	LCS-40174	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	LCSW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701009

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Copper	220	5.0	200.0	0	108	85	118				
Iron	1,800	200	2,000	0	89.7	87	118				
Lead	190	1.0	200.0	0	92.9	88	115				
Magnesium	1,900	500	2,000	0	96.9	83	118				
Manganese	180	5.0	200.0	0	91.7	87	115				
Nickel	200	10	200.0	0	102	85	117				
Potassium	2,000	500	2,000	0	99.4	87	115				
Selenium	180	5.0	200.0	0	92.0	80	120				
Sodium	2,300	500	2,000	0	115	85	117				
Thallium	180	2.0	200.0	0	90.6	82	116				
Vanadium	180	4.0	200.0	0	89.7	86	115				
Zinc	2,300	50	2,000	0	116	83	119				

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	1,600	50	200.0	1,129	254	84	117				QG
Arsenic	220	1.5	200.0	8.730	103	84	116				
Barium	240	25	200.0	38.45	102	86	114				
Cadmium	200	1.0	200.0	0	101	87	115				
Calcium	51,000	1,000	2,000	47,600	179	87	118				Q
Chromium	200	10	200.0	2.025	98.3	85	116				G
Cobalt	200	5.0	200.0	1.815	99.9	86	115				
Copper	200	5.0	200.0	1.535	102	85	118				
Iron	40,000	200	2,000	36,990	174	87	118				Q
Lead	200	1.0	200.0	3.795	99.3	88	115				
Magnesium	9,100	500	2,000	6,805	116	83	118				
Manganese	1,700	5.0	200.0	1,402	144	87	115				Q
Nickel	210	10	200.0	2.965	101	85	117				
Potassium	11,000	500	2,000	8,164	117	87	115				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40174

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Selenium	210	5.0	200.0	0	104	80	120				
Sodium	13,000	500	2,000	10,600	129	85	117				Q
Thallium	200	2.0	200.0	0	99.3	82	116				
Vanadium	200	4.0	200.0	3.590	98.1	86	115				
Zinc	200	50	200.0	8.840	98.0	83	119				

Sample ID:	1606387-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701012

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	1,600	50	200.0	1,129	251	84	117	1,637	0.319	20	QG
Arsenic	210	1.5	200.0	8.730	103	84	116	215.6	0.773	20	
Barium	240	25	200.0	38.45	101	86	114	243.1	0.782	20	
Cadmium	200	1.0	200.0	0	99.9	87	115	203.0	1.56	20	
Calcium	51,000	1,000	2,000	47,600	169	87	118	51,180	0.405	20	Q
Chromium	200	10	200.0	2.025	98.1	85	116	198.6	0.202	20	G
Cobalt	200	5.0	200.0	1.815	98.8	86	115	201.6	1.03	20	
Copper	200	5.0	200.0	1.535	100	85	118	204.8	1.18	20	
Iron	40,000	200	2,000	36,990	150	87	118	40,470	1.21	20	Q
Lead	210	1.0	200.0	3.795	101	88	115	202.4	1.67	20	
Magnesium	9,100	500	2,000	6,805	117	83	118	9,125	0.188	20	
Manganese	1,700	5.0	200.0	1,402	142	87	115	1,690	0.283	20	Q
Nickel	200	10	200.0	2.965	99.6	85	117	205.8	1.76	20	
Potassium	11,000	500	2,000	8,164	118	87	115	10,510	0.189	20	Q
Selenium	200	5.0	200.0	0	99.6	80	120	207.6	4.09	20	
Sodium	13,000	500	2,000	10,600	122	85	117	13,180	1.11	20	Q
Thallium	200	2.0	200.0	0	101	82	116	198.7	1.29	20	
Vanadium	200	4.0	200.0	3.590	98.2	86	115	199.9	0.0350	20	
Zinc	200	50	200.0	8.840	96.0	83	119	204.8	2.01	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	MB-40174	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	PBW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701379

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	1.0	1.0									U

Sample ID:	LCS-40174	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	LCSW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701380

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	180	1.0	200.0	0	92.2	83	121				

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701412

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	190	1.0	200.0	0	93.2	83	121				

Sample ID:	1606387-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701413

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	190	1.0	200.0	0	93.5	83	121	186.4	0.319	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	LCS-40212	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86925
Client ID:	LCSW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1686475

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.10	2.000	0	70.4	50	114				
Aroclor 1260	1.7	0.15	2.000	0	87.2	20	127				
Surr: Tetrachloro-m-xylene	0.053		0.1000		52.6	48	111				
Surr: Decachlorobiphenyl	0.087		0.1000		87.1	47	122				

Sample ID:	MB-40212	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86925
Client ID:	PBW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1686476

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.062		0.1000		61.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.5	40	135				

Sample ID:	1606387-005CMS	Samp Type:	MS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87005
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688027

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.093	1.869	0	76.0	50	114				
Aroclor 1260	1.1	0.14	1.869	0	59.8	20	127				
Surr: Tetrachloro-m-xylene	0.048		0.09346		51.1	48	111				
Surr: Decachlorobiphenyl	0.0030		0.09346		3.24	47	122				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	1606387-005CMSD	Samp Type:	MSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87005
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688028

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.6	50	114	1.421	7.95	25	
Aroclor 1260	1.2	0.14	1.887	0	64.0	20	127	1.118	7.73	25	
Surr: Tetrachloro-m-xylene	0.063		0.09434		67.1	48	111		0	25	
Surr: Decachlorobiphenyl	0.031		0.09434		32.5	47	122		0	25	Q

Sample ID:	LCS-40212	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87004
Client ID:	LCSW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1688015

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.10	2.000	0	70.4	46	129				
Aroclor 1260	1.7	0.20	2.000	0	87.2	45	134				
Surr: Tetrachloro-m-xylene	0.053		0.1000		52.6	40	135				
Surr: Decachlorobiphenyl	0.087		0.1000		87.1	40	135				

Sample ID:	MB-40212	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87004
Client ID:	PBW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1688016

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.062		0.1000		61.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.5	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	1606387-005CMS	Samp Type:	MS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87006
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688065

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.093	1.869	0	76.0	46	129				
Aroclor 1260	1.1	0.19	1.869	0	59.8	45	134				
Surr: Tetrachloro-m-xylene	0.048		0.09346		51.1	40	135				
Surr: Decachlorobiphenyl	0.0030		0.09346		3.24	40	135				Q

Sample ID:	1606387-005CMSD	Samp Type:	MSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87006
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688066

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.6	46	129	1.421	7.95	25	
Aroclor 1260	1.2	0.19	1.887	0	64.0	45	134	1.118	7.73	25	
Surr: Tetrachloro-m-xylene	0.063		0.09434		67.1	40	135		0	25	
Surr: Decachlorobiphenyl	0.031		0.09434		32.5	40	135		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86698

Sample ID: **VOA10 LCS 061516** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/15/2016** RunNo: **86698**

Client ID: **LCSW** Batch ID: **R86698** TestNo: **SW8260B** Analysis Date: **6/15/2016** SeqNo: **1681997**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	11	1.0	10.00	0	106	78	124				
1,1,1-Trichloroethane	9.5	1.0	10.00	0	94.9	74	131				
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	102	71	121				
1,1,2-Trichloroethane	10	1.0	10.00	0	103	80	119				
1,1-Dichloroethane	10	2.0	10.00	0	101	77	125				
1,1-Dichloroethene	9.3	1.0	10.00	0	92.9	71	131				
1,2,3-Trichloropropane	9.6	1.0	10.00	0	95.8	73	122				
1,2-Dibromo-3-chloropropane	8.2	5.0	10.00	0	81.6	62	128				
1,2-Dibromoethane	10	1.0	10.00	0	100	77	121				
1,2-Dichloroethane	10	1.0	10.00	0	104	73	128				
1,2-Dichloropropane	9.9	1.0	10.00	0	99.1	78	122				
2-Butanone [MEK]	11	10	10.00	0	107	56	143				
2-Hexanone	10	2.0	10.00	0	101	57	139				Y
Acetone	11	10	10.00	0	111	39	160				
Benzene	9.8	1.0	10.00	0	98.4	79	120				
Bromodichloromethane	10	1.0	10.00	0	103	79	125				
Bromoform	7.9	1.0	10.00	0	79.0	66	130				
Carbon disulfide	9.2	1.0	10.00	0	92.0	64	133				
Carbon tetrachloride	9.8	1.0	10.00	0	98.3	72	136				
Chlorobenzene	9.7	1.0	10.00	0	96.9	82	118				
Chlorodibromomethane	9.9	1.0	10.00	0	98.6	74	126				Y
Chloroethane	10	2.0	10.00	0	103	60	138				
Chloroform	9.3	1.0	10.00	0	92.9	79	124				
Chloromethane	11	1.0	10.00	0	107	50	139				
cis-1,2-Dichloroethene	9.6	1.0	10.00	0	96.3	78	123				
cis-1,3-Dichloropropene	9.6	1.0	10.00	0	96.3	75	124				
Dichlorodifluoromethane [Freon-12]	12	1.0	10.00	0	115	32	152				
Ethylbenzene	9.7	1.0	10.00	0	96.7	79	121				
Methylene chloride	11	5.0	10.00	0	112	74	124				
Styrene	10	1.0	10.00	0	102	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86698

Sample ID: **VOA10 LCS 061516** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/15/2016** RunNo: **86698**

Client ID: **LCSW** Batch ID: **R86698** TestNo: **SW8260B** Analysis Date: **6/15/2016** SeqNo: **1681997**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	9.7	1.0	10.00	0	96.7	74	129				
Toluene	11	1.0	10.00	0	106	80	121				
trans-1,2-Dichloroethene	10	1.0	10.00	0	104	75	124				
trans-1,3-Dichloropropene	10	1.0	10.00	0	101	73	127				
Trichloroethene	9.4	1.0	10.00	0	94.1	79	123				
Trichlorofluoromethane [Freon-11]	10	1.0	10.00	0	105	65	141				
Vinyl acetate	11	5.0	10.00	0	105	54	146				Y
Vinyl chloride	11	1.0	10.00	0	112	58	137				
Xylene (total)	30	3.0	30.00	0	101	79	121				
Surr: 4-Bromofluorobenzene	59		60.00		98.0	85	114				
Surr: Dibromofluoromethane	57		60.00		94.6	80	119				
Surr: Toluene-d8	57		60.00		95.8	89	112				

Sample ID: **VOA10 LCSD 06151** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/15/2016** RunNo: **86698**

Client ID: **LCSS02** Batch ID: **R86698** TestNo: **SW8260B** Analysis Date: **6/15/2016** SeqNo: **1682018**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.7	1.0	10.00	0	96.6	78	124	10.59	9.19	25	
1,1,1-Trichloroethane	8.9	1.0	10.00	0	88.8	74	131	9.490	6.64	25	
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	102	71	121	10.16	0.491	25	
1,1,2-Trichloroethane	9.9	1.0	10.00	0	99.2	80	119	10.25	3.27	25	
1,1-Dichloroethane	9.2	2.0	10.00	0	92.3	77	125	10.09	8.90	25	
1,1-Dichloroethene	9.1	1.0	10.00	0	90.9	71	131	9.290	2.18	25	
1,2,3-Trichloropropane	9.7	1.0	10.00	0	97.2	73	122	9.580	1.45	25	
1,2-Dibromo-3-chloropropane	8.5	5.0	10.00	0	85.0	62	128	8.160	4.08	25	
1,2-Dibromoethane	10	1.0	10.00	0	102	77	121	10.04	1.48	25	
1,2-Dichloroethane	10	1.0	10.00	0	102	73	128	10.35	1.95	25	
1,2-Dichloropropane	9.7	1.0	10.00	0	97.3	78	122	9.910	1.83	25	
2-Butanone [MEK]	10	10	10.00	0	102	56	143	10.74	4.86	25	
2-Hexanone	10	2.0	10.00	0	104	57	139	10.12	3.02	25	Y
Acetone	11	10	10.00	0	112	39	160	11.07	1.35	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86698

Sample ID: **VOA10 LCSD 06151** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/15/2016** RunNo: **86698**

Client ID: **LCSS02** Batch ID: **R86698** TestNo: **SW8260B** Analysis Date: **6/15/2016** SeqNo: **1682018**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	9.1	1.0	10.00	0	90.9	79	120	9.840	7.92	25	
Bromodichloromethane	10	1.0	10.00	0	102	79	125	10.31	1.56	25	
Bromoform	7.7	1.0	10.00	0	76.6	66	130	7.900	3.08	25	
Carbon disulfide	8.2	1.0	10.00	0	82.4	64	133	9.200	11.0	25	
Carbon tetrachloride	8.9	1.0	10.00	0	88.8	72	136	9.830	10.2	25	
Chlorobenzene	9.4	1.0	10.00	0	94.5	82	118	9.690	2.51	25	
Chlorodibromomethane	9.9	1.0	10.00	0	99.2	74	126	9.860	0.607	25	Y
Chloroethane	10	2.0	10.00	0	99.7	60	138	10.26	2.87	25	
Chloroform	9.4	1.0	10.00	0	94.2	79	124	9.290	1.39	25	
Chloromethane	10	1.0	10.00	0	102	50	139	10.70	4.78	25	
cis-1,2-Dichloroethene	9.5	1.0	10.00	0	95.1	78	123	9.630	1.25	25	
cis-1,3-Dichloropropene	9.4	1.0	10.00	0	94.4	75	124	9.630	1.99	25	
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	103	32	152	11.52	11.0	25	
Ethylbenzene	9.2	1.0	10.00	0	92.5	79	121	9.670	4.44	25	
Methylene chloride	11	5.0	10.00	0	110	74	124	11.25	1.88	25	
Styrene	10	1.0	10.00	0	100	78	123	10.17	1.49	25	
Tetrachloroethene	9.6	1.0	10.00	0	95.8	74	129	9.670	0.935	25	
Toluene	10	1.0	10.00	0	104	80	121	10.61	2.38	25	
trans-1,2-Dichloroethene	9.5	1.0	10.00	0	95.2	75	124	10.36	8.45	25	
trans-1,3-Dichloropropene	9.8	1.0	10.00	0	98.3	73	127	10.10	2.71	25	
Trichloroethene	9.4	1.0	10.00	0	93.9	79	123	9.410	0.213	25	
Trichlorofluoromethane [Freon-11]	9.4	1.0	10.00	0	94.1	65	141	10.46	10.6	25	
Vinyl acetate	11	5.0	10.00	0	108	54	146	10.53	2.07	0	Y
Vinyl chloride	10	1.0	10.00	0	103	58	137	11.24	9.12	25	
Xylene (total)	29	3.0	30.00	0	96.3	79	121	30.39	5.10	25	
Surr: 4-Bromofluorobenzene	59		60.00		97.6	85	114		0	25	
Surr: Dibromofluoromethane	57		60.00		94.6	80	119		0	25	
Surr: Toluene-d8	58		60.00		96.7	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86698**

Sample ID:	**VOA10 MBLK 06151**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/15/2016**	RunNo:	**86698**
Client ID:	**PBW**	Batch ID:	**R86698**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1682022**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									U
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									UY
Acetone	10	10									U
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									UY
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	5.0	5.0									U
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86698**

Sample ID:	**VOA10 MBLK 06151**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/15/2016**	RunNo:	**86698**
Client ID:	**PBW**	Batch ID:	**R86698**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1682022**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									UY
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	46		50.00		93.0	85	114				
Surr: Dibromofluoromethane	50		50.00		100	80	119				
Surr: Toluene-d8	46		50.00		92.7	89	112				

RTI Laboratories - Definitions and Acronyms

WO#: 1606337

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606337

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	060916-03
Address	Point of Contact / Phone No.	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / State / Zip Code	Site Contact / Phone No.	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
Field QC	–	–	TB	1	TB-GW-060816-01	06/08/16	0900	WG	3	009	3										
WDS-SB25	–	–	~~EB~~	1	WDS-SB25-GW		1100	WG	10		3			4			2	1			SA Code: N
WDS-SB26	–	–	N	1	WDS-SB26-GW		1005	WG	3		3			4			2	1			
WDS-SB26	–	–	FD	1	WDS-SB26-GWDUP		1005	WG	3		3			4			2	1			
WDS-SB27	–	–	N	1	WDS-SB27-GW		1000	WG	3		3					2		1			
WDS-SB22	–	–	N	1	WDS-SB22-GW		1500	WG	3		3			4			2	1			
WDS-SB22	–	–	FD	1	WDS-SB22-GWDUP		1500	WG	3		3			4			2	1			

1. Relinquished By / Company: Amanda Martin AECOM	Date 06/09/16	Time 1630	1. Received By / Company: Transfer to FedEx
2. Relinquished By / Company	Date	Time	2. Received By / Company
3. Relinquished By / Company	Date	Time	3. Received By / Company: RTI Labs

Date 06/09/16 Time 1630
Date 6/10/16 Time 09:32

Comments: Cooler ID: T22
Second ID: 1009

Shipment Method/Airbill No: 8105 0202 6026

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

1606337

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060916-06
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
WDS-SB22	—	—	FD	1	WDS-SB22-GW-DUP	06/08/16	1500	WG	7	012				4			2	1			SA Code: FD
HIL-SB01	—	—	N	1	HIL-SB01-GW	06/08/16	1400	WG	2	012						2	2	1			

1. Relinquished By / Company: Amanda Martin AECOM — Date: 06/09/16 — Time: 0830
1. Received By / Company: Transfer to FedEx — Date: 06/09/16 — Time: 1030
2. Relinquished By / Company — Date — Time
2. Received By / Company — Date — Time
3. Relinquished By / Company — Date — Time
3. Received By / Company: RTI Labs — Date: 6-10-16 — Time: 0913Z

Comments

Shipment Method/Airbill No.: 8103 0202 5990

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLE

Cooler ID X
Second ID 012
Temp 3 3 TB

Original CoC

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060916-03
Batch May16

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
Field QC	—	—	TB	1	TB-GW-060816-01	06/08/16	0900	WG	3	009	3										
WDS-SB25	—	—	~~VOC~~	1	WDS-SB25-GW		1100	WG	10		3			4			2	1			SA Code: N
WDS-SB26	—	—	N	1	WDS-SB26-GW		1005	WG	3		3										
WDS-SB26	—	—	FD	1	WDS-SB26-GWDUP		1005	WG	3		3										
WDS-SB27	—	—	N	1	WDS-SB27-GW		1000	WG	3		3										
WDS-SB22	—	—	N	1	WDS-SB22-GW		1500	WG	3		3										
WDS-SB22	—	—	FD	1	WDS-SB22-GWDUP		1500	WG	3		3										

1. Relinquished By / Company: Amanda Martin AECOM	Date: 06/09/16	Time: 1130	1. Received By / Company: Transfer to FedEx	Date: 06/09/16	Time: 1030
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: Linda Flax / RTI Labs	Date: 6/10/16	Time: 09:32

Comments

Shipment Method/Airbill No.: 8109 0202 6026

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler ID: T22
Second ID: 1009
Temp: 1.5 TB

Original COC

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060916-06
Batch May16

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.
WDS-SB22	—	—	FD	1	WDS-SB22-GWDUP	06/08/16	1800	WG	7	012
HII-SB01	—	—	N	1	HII-SB01-GW	06/08/16	1400	WG	2	012

Analysis

VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)
			4			2	1		
					2	2			

Comment: SA Code: FD

1. Relinquished By / Company: Amanda Martin AECOM	Date: 06/09/16	Time: 1630	1. Received By / Company: Transfer to FedEx	Date: 06/09/16	Time: 1630
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date: 6-10-16	Time: 0913

Comments

Shipment Method/Airbill No.: 8103 0202 5990

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler ID X
Second ID: #012
Temp: 3.3 TB

Original COC

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060916-07
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
WDS-SB22	—	—	N	1	WDS-SB22-GW	06/08/16	1500	WG	7	013				4		3	2	1			
HII-SB01	—	—	N	1	HII-SB01-GW	↓	1400	WG	3	013							2	1			

1. Relinquished By / Company	AECOM	06/09/16	Time	1. Received By / Company	Transfer to FedEx	06/09/16	Time
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	RTI	6/10/16	09:3

Comments

Shipment Method/Airbill No. 810302025980

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler ID: SAME-1
Second ID: #013
Temp: 0.1 TB

Original COC

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060916-05
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB26	--	--	N	1	WDS-SB26-GWDUP	06/08/16	1005	WG	7	011				4			2	1				

1. Relinquished By / Company: Amanda Martin AECOM — Date: 06/09/16 — Time: 1030
1. Received By / Company: Transfer to FedEx — Date: 06/09/16 — Time: 1030
2. Relinquished By / Company — Date — Time
2. Received By / Company — Date — Time
3. Relinquished By / Company — Date — Time
3. Received By / Company: RTI — Date: 6-10-16 — Time: 0732

Comments

Shipment Method/Airbill No.: 8105 0202 6004

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler ID: Blue Ford
Second ID: #011
Temp: 1.2 1B

Chain of Custody

Original COC

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	0609160-04 Batch May16
Address	**Point of Contact / Phone No.**	
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
WDS-SB26	-	-	N	1	WDS-SB26-GW	06/08/16	1005	WG	7	010					4			2	1			
WDS-SB27	-	-	N	1	WDS-SB27-GW	↓	1000	WG	3	010							2		1			

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date / Time
Amanda AECOM	06/09/16	1030	Transfer to FedEx	06/09/16 1032
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date / Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date / Time
			RTI Labs	6/10/16 09:32

Comments

Shipment Method/Airbill No. 8103 0202 6015

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

Cooler ID: LI10
Second ID: HH010
Temp: 2.4 TB

FedEx Express Package US Airbill

FedEx Tracking Number 8103 0202 5990

Form ID No. 0215

1 From

Date 06/09/16

Sender's Name Amanda Martin Phone [redacted]

Company QEC

Address 3141 WILSON BLVD STE 900

City ARLINGTON State VA ZIP 22201-4446

Dept/Floor/Suite/Room

2 Your Internal Billing Reference

3 To

Recipient's Name KATHY GRIFFIN Phone 734 292-2100

Company PPT LABORATORIES - ENV SCI DIV

Address 2148 GLENDALE STREET

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City LIVONIA State MI ZIP 48150

Hold Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0123659941

8103 0202 5990

4 Express Package Service * To most locations.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | [X] Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [X] No Signature Required — Package may be left without obtaining a signature for delivery.
- Direct Signature — Someone at recipient's address may sign for delivery.
- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- Yes — As per attached Shipper's Declaration.
- Yes — Shipper's Declaration not required.
- Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. Cargo Aircraft Only

7 Payment Bill to:

Sender Acct. No. in Section 1 will be billed. | Recipient | Third Party | Credit Card | Cash/Check

Enter FedEx Acct. No. or Credit Card No. below. Obtain Credit Card Acct. No.

Total Packages Total Weight Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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fedex.com 1.800.GoFedEx 1.800.463.3339

Courier or Driver

CUSTODY SEAL

DATE 06/09/16

SIGNATURE A Martin

QEC Quality Environmental Containers 800-255-3950 • 304-255-3900

FedEx 0215 8103 0202 5990

FRI - 10 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

ID 48251 09JUN16 WSHA 539C2/30BD/6A08

A38

FedEx Express Package US Airbill

FedEx Tracking Number 8103 0202 6015

Form ID No. 0215

1 From
Date 06/09/16
Sender's Name Amanda Martin Phone 434 284-6047
Company AECOM GCP
Address 3101 WILSON BLVD STE 900 Dept./Floor/Suite/Room
City ARLINGTON State VA ZIP 22201-4446

2 Your Internal Billing Reference 60449903.4.1

3 To
Recipient's Name KATHY GRIFFIN Phone 734 692-7100
Company RTI LABORATORIES - ENV SCI DIV
Address 31628 GLENDALE STREET Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
Use this line for the HOLD location address or for continuation of your shipping address.
City LIVONIA State MI ZIP 48150

Hold Weekday: FedEx location address REQUIRED. NOT available for FedEx First Overnight.
Hold Saturday: FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8103 0202 6015

4 Express Package Service * To most locations.

Next Business Day
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- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Day
- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.
FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.
Saturday Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
No Signature Required — Package may be left without obtaining a signature for delivery.
Direct Signature — Someone at recipient's address may sign for delivery.
Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?
No | Yes — As per attached Shipper's Declaration | Yes — Shipper's Declaration not required | Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg | Cargo Aircraft Only
Restrictions apply for dangerous goods — see the current FedEx Service Guide.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.
Sender Acct. No. in Section 1 will be billed. | Recipient | Third Party | Credit Card | Cash/Check
Total Packages ____ Total Weight ____ lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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0215 8103 0202 6015

FRI - 10 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 48251 09JUN16 WSHA 539C2/30BD/6A08

CUSTODY SEAL
DATE 06/09/16
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

RT 438 ST 6 5 16:00 A 6015 06.10

FRI - 10 JUN AA
STANDARD OVERNIGHT

FedEx 0215 8103 0202 6004

4815
DTY

ET CFAA

CUSTODY SEAL
DATE
SIGNATURE

QEC
Quality Enviror
800-255-3950

State | City | Street Address We cannot | Dept./Floor/Suite/Room

00142
00152

FID 48251 09JUN16 WSHA 539C2/30BD/6A08

Tracking Number 8103 0202 6004

COC # 060916-05
Cooler # 01

Form ID No. 0215 Sender's Copy

1 From
Date 06/09/16
Sender's Name Amanda Martin
Phone
Company
Address
City State ZIP Dept./Floor/Suite/Room

2 Your Internal Billing Reference

3 To
Recipient's Name
Phone
Company
Address
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept./Floor/Suite/Room
Address
Use this line for the HOLD location address or for continuation of your shipping address.
City State ZIP

Hold Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day
- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☒ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days
- ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.
☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.
☐ Saturday Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

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Does this shipment contain dangerous goods?
☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry ice, 9, UN 1845 ____ x ____ kg
Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

7 Payment Bill to:
☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check
Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐
Total Packages Total Weight ____ lbs.
Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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fedex.com 1.800.GoFedEx 1.800.463.3339

Courier or Driver:
Place Astra or Barcoded Label Here

FedEx Express — Package US Airbill

FedEx Tracking Number 8103 0202 5980

Form ID No. 0215

1 From
Date 06/09/16
Sender's Name Amanda Martin
Phone [redacted]
Company AECOM
Address 3101 WILSON BLVD STE 900
Dept./Floor/Suite/Room
City ARLINGTON
State VA
ZIP [redacted]

2 Your Internal Billing Reference 60443983.4.1

3 To
Recipient's Name KATHY GRIFFIN
Phone 734 282-2100
Company PSC LABORATORIES - ENV SCI DIV
Address 31626 GLENDALE STREET
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept./Floor/Suite/Room
Address
Use this line for the HOLD location address or for continuation of your shipping address.
City LIVONIA
State MI
ZIP 48150

Hold Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.
Hold Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

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FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | Other

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No | Yes As per attached Shipper's Declaration | Yes Shipper's Declaration not required | Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg
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7 Payment Bill to:
Sender Acct. No. in Section 1 will be billed | Recipient | Third Party | Credit Card | Cash/Check
Enter FedEx Acct. No. or Credit Card No. below.
Credit Card Auth.

Service Guide for details.

611

8103 0202 5980

FedEx 0215 8103 0202 5980

FRI - 10 JUN AA
STANDARD OVERNIGHT

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CUSTODY SEAL
DATE 06/09/16
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Courier or Driver: Place Astra or Barcoded Label Here

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R1 438 5 16:00 A 06.10 5980 ST 6

Company
Dept./Floor/Suite/Room
Street Address We cannot deliver to P.O. boxes or P.O. ZIP codes.
Country

00152

FedEx Express Package US Airbill

FedEx Tracking Number 8103 0202 6026

Form ID No. 0215

COC #060916-03
Cooler #009

1 From

Date 06/09/16

Sender's Name Amanda Martin Phone [redacted]

Company ALCOM LLC

Address 1500 WILSON BLVD STE 810

City ARLINGTON State VA ZIP 22209-2404

Dept./Floor/Suite/Room

2 Your Internal Billing Reference

3 To

Recipient's Name KATHY GRIFFIN Phone 734 272-2100

Company RTI LABORATORIES - ENV SCI DIV

Address 31620 GLENDALE STREET

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City LIVONIA State MI ZIP 48150

Hold Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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Next Business Day

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- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | Other

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- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

- No
- Yes — As per attached Shipper's Declaration.
- Yes — Shipper's Declaration not required.
- Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. Cargo Aircraft Only

7 Payment *Bill to:*

Sender Acct. No. in Section 1 will be billed | Recipient | Third Party | Credit Card | Cash/Check

Enter FedEx Acct. No. or Credit Card No. below.

Total Packages ____ Total Weight ____ lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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Company | Dept./Floor/Suite/Room | Street Address | City | State | ZIP codes | Country

FID 48251 09JUN16 WSHA 5392/30BD/6A08

48150
MI-US
DTW

FRI - 10 JUN AA
STANDARD OVERNIGHT

8103 0202 6026

ET CFAA

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606387

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606387-001A	TB-GW-060916-01		6/9/2016 9:00 AM	6/11/2016 10:30 AM	Water
1606387-002A	WDS-SB23-GW		6/9/2016 2:00 PM	6/11/2016 10:30 AM	Groundwater
1606387-002B	WDS-SB23-GW		6/9/2016 2:00 PM	6/11/2016 10:30 AM	Groundwater
1606387-002C	WDS-SB23-GW		6/9/2016 2:00 PM	6/11/2016 10:30 AM	Groundwater
1606387-002D	WDS-SB23-GW		6/9/2016 2:00 PM	6/11/2016 10:30 AM	Groundwater
1606387-003A	WDS-SB23-GW DUP		6/9/2016 2:00 PM	6/11/2016 10:30 AM	Groundwater
1606387-003B	WDS-SB23-GW DUP		6/9/2016 2:00 PM	6/11/2016 10:30 AM	Groundwater
1606387-003C	WDS-SB23-GW DUP		6/9/2016 2:00 PM	6/11/2016 10:30 AM	Groundwater
1606387-003D	WDS-SB23-GW DUP		6/9/2016 2:00 PM	6/11/2016 10:30 AM	Groundwater
1606387-004A	WDS-SB24-GW		6/9/2016 3:15 PM	6/11/2016 10:30 AM	Groundwater
1606387-004B	WDS-SB24-GW		6/9/2016 3:15 PM	6/11/2016 10:30 AM	Groundwater
1606387-004C	WDS-SB24-GW		6/9/2016 3:15 PM	6/11/2016 10:30 AM	Groundwater
1606387-004D	WDS-SB24-GW		6/9/2016 3:15 PM	6/11/2016 10:30 AM	Groundwater
1606387-005A	H12-SB01-GW		6/9/2016 10:15 AM	6/11/2016 10:30 AM	Groundwater
1606387-005B	H12-SB01-GW		6/9/2016 10:15 AM	6/11/2016 10:30 AM	Groundwater
1606387-005C	H12-SB01-GW		6/9/2016 10:15 AM	6/11/2016 10:30 AM	Groundwater
1606387-005D	H12-SB01-GW		6/9/2016 10:15 AM	6/11/2016 10:30 AM	Groundwater

RTI Laboratories - Case Narrative

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)
Project:	Camp Hero

Analytical report revised: Compounds 1,2,4-Trichlorobenzene and 1,2-Dichlorobenzene have been removed from the 8260C analysis.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Metals, ICP/MS - 6020
Silver and/or Antimony, ICP/MS - 6020A-SA
Polychlorinated Biphenyls - 8082A
Volatile Organic Compounds - 8260C
Semi-Volatile Organic Compounds - 8270D-MOD
Semi-Volatile Organic Compounds - 8270D SIM

Prep Batch (SW_3510BNA) / 40262:
Sample 1606387-004B: Sample was re-extracted and reanalyzed due to poor surrogate recoveries in the original analysis. Prep Method hold time was exceeded by 10.724 days for re-extraction. Both original analysis and re-analysis are reported as requested.

Analytical Comments for Test EPA_8082, Analytical Run No 87006, Batch ID 40212:
Sample 1606387-005C: Surrogate DCB exceeded control limits.
Sample 1606387-005CMS: Surrogate DCB exceeded control limits.
Sample 1606387-005CMSD: Surrogate DCB exceeded control limits.

Analytical Comments for Test SW_6020A, Analytical Run No 87545, Batch ID 40174:
Sample 1606387-005DMS: Recoveries for Calcium, Iron, Manganese, Potassium, Sodium and Aluminum exceeded control limits due to elevated concentration of analytes in the sample.
Sample 1606387-005DMSD: Recoveries for Calcium, Iron, Manganese, Potassium, Sodium and Aluminum exceeded control limits due to elevated concentration of analytes in the sample.

Analytical Comments for Test SW_8082A, Analytical Run No 87006, Batch ID 40212:
Sample 1606387-005C: Decachlorobiphenyl surrogate exceeded control limit.
Sample 1606387-005CMS: Decachlorobiphenyl surrogate exceeded control limit.
Sample 1606387-005CMSD: Decachlorobiphenyl surrogate exceeded control limit.

Analytical Comments for Test SW_8260A, Analytical Run No 86781, Batch ID R86781:
Sample VOA10 CCV 062016: CCV results for 2-hexanone, and Chlorodibromomethane exceed the 20% criteria.
Sample 1606387-005AMS: 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane and acetone exceed limits.
Sample 1606387-005AMSD: Acetone and Methylene chloride exceed limits.
Sample VOA10 CCVE 062016: Dichlorodifluoromethane and 1,2,4-Trichlorobenzene exceed the 50%

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86748, Batch ID 40156:
Sample LCS-40156: LCS results for4-Nitrophenol, N-Nitrosodimethylamine exceeded recovery control limits
Sample 1606387-002B: Surrogate Phenol-d5 exceeded recovery control limit.
Sample 1606387-003B: Surrogate Phenol-d5 exceeded recovery control limit.
Sample 1606387-004B: Surrogates Phenol-d5,Terphenyl-d14, Nitrobenzene-d5 and 2-Fluorobiphenyl exceeded recovery control limit.
Sample 1606387-005BMS: MS results for 3,3´-Dichlorobenzidine, N-Nitrosodimethylamine, Pentachlorophenol and Phenol exceeded recovery control limit. Surrogate Phenol-d5 exceeded control limits.
Sample 1606387-005BMSD: MSD results 3,3´-Dichlorobenzidine, N-Nitrosodimethylamine, Pentachlorophenol and Phenol exceeded recovery control limit. Surrogate Phenol-d5 exceeded control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86748, Batch ID 40170:
Sample LCS-40170: LCS results for N-Nitrosodimethylamine exceeded recovery control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86748, Batch ID R86748:
Sample ICV S8 050216: ICV results for Benzoic acid and Bis(2-chloroisopropyl) ether exceeded the 20% criteria.
Sample CCV S8 061616: CCV results for 2,4-Dinitrophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, and 2-Nitroaniline exceeded the 20% criteria.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87381, Batch ID 40262:
Sample LCS-40262: Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine, Phenol exceeded the control limit.
Samples 1606422-008B MS/MSD: Several recoveries and RPDs were outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87381, Batch ID R87381:
Sample ICV S7 031416: Benzoic acid and Bis(2-chloroisopropyl) ether exceeded the 20% criteria.
Sample CCV S7 063016: Benzoic acid, Bis(2-chloroisopropyl) ether exceeded the 20% criteria.
Sample CCVE S7 063016: Pentachlorophenol, Benzoic acid exceeded the 50% criteria.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87458, Batch ID 40160:
Sample 1606387-004B: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.
Sample 1606387-005B: Surrogate recoveries for 2-Fluorobiphenyl, and Nitrobenzene-d5 were outside the control limits.
Samples 1606387-005B MS/MSD: Spike recoveries for several compounds were outside the control limits. RPD for several compounds were outside the control limits.
Sample MB-40160: Surrogate recoveries for 2-Fluorobiphenyl, and Nitrobenzene-d5 were outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606387-001	**Matrix:**	Water
Client Sample ID:	TB-GW-060916-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/20/2016 10:03 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/20/2016 10:03 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/20/2016 10:03 AM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/20/2016 10:03 AM
Acetone	4.3	J	0.56	0.60	10	µg/L	1	6/20/2016 10:03 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/20/2016 10:03 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/20/2016 10:03 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/20/2016 10:03 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/20/2016 10:03 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/20/2016 10:03 AM
Surr: 4-Bromofluorobenzene	92.6			85-114		%Rec	1	6/20/2016 10:03 AM
Surr: Dibromofluoromethane	85.4			80-119		%Rec	1	6/20/2016 10:03 AM
Surr: Toluene-d8	90.8			89-112		%Rec	1	6/20/2016 10:03 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 2:00:00 PM
Project:	Camp Hero		
Lab ID:	1606387-002	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB23-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/25/2016 12:28 PM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/25/2016 12:28 PM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/25/2016 12:28 PM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/25/2016 12:28 PM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/25/2016 12:28 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/25/2016 12:28 PM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/25/2016 12:28 PM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/25/2016 12:28 PM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/25/2016 12:28 PM
Surr: Tetrachloro-m-xylene	81.7			40-135		%Rec	1	6/25/2016 12:28 PM
Surr: Decachlorobiphenyl	58.2			40-135		%Rec	1	6/25/2016 12:28 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	210,000		550	1,000	20,000	µg/L	2000	7/25/2016 6:46 PM
Arsenic	95	G	0.61	1.0	1.5	µg/L	5	7/25/2016 1:39 PM
Barium	1,200		0.18	0.50	25	µg/L	5	7/25/2016 1:39 PM
Beryllium	8.2	J	5.0	10	20	µg/L	100	7/25/2016 5:27 PM
Cadmium	3.5		0.27	0.50	1.0	µg/L	5	7/25/2016 1:39 PM
Calcium	51,000		1,800	2,500	20,000	µg/L	100	7/25/2016 3:42 PM
Chromium	480	G	6.1	10	200	µg/L	100	7/25/2016 3:42 PM
Cobalt	77	J	2.4	10	100	µg/L	100	7/25/2016 3:42 PM
Copper	510		4.9	10	100	µg/L	100	7/25/2016 3:42 PM
Iron	320,000		950	2,500	4,000	µg/L	100	7/25/2016 3:42 PM
Lead	69		0.24	0.50	1.0	µg/L	5	7/25/2016 1:39 PM
Magnesium	43,000		810	2,500	10,000	µg/L	100	7/25/2016 3:42 PM
Manganese	2,500		5.3	10	100	µg/L	100	7/25/2016 3:42 PM
Nickel	190	J	4.1	10	200	µg/L	100	7/25/2016 3:42 PM
Potassium	27,000		2,100	2,500	10,000	µg/L	100	7/25/2016 3:42 PM
Selenium	5.5		1.5	2.5	5.0	µg/L	5	7/25/2016 1:39 PM
Sodium	17,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:27 PM
Thallium	1.8	J	0.16	0.50	2.0	µg/L	5	7/25/2016 1:39 PM
Vanadium	470		9.8	10	80	µg/L	100	7/25/2016 3:42 PM
Zinc	460		1.8	2.5	50	µg/L	5	7/25/2016 1:39 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.92	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:25 AM
Silver	1.1	J	0.24	0.50	1.5	µg/L	5	6/16/2016 11:25 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.95	U	0.86	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
1,2-Dichlorobenzene	0.95	U	0.88	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
1,3-Dichlorobenzene	0.95	U	0.72	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
1,4-Dichlorobenzene	2.4	U	0.99	2.4	4.8	µg/L	1	6/17/2016 12:44 AM

RTI Laboratories - Analytical Report

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606387-002 **Matrix:** Groundwater
Client Sample ID: WDS-SB23-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
2,4,6-Trichlorophenol	0.95	U	0.91	0.95	3.8	µg/L	1	6/17/2016 12:44 AM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
2,4-Dinitrophenol	9.5	UY	4.8	9.5	24	µg/L	1	6/17/2016 12:44 AM
2,4-Dinitrotoluene	0.95	U	0.57	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
2,6-Dinitrotoluene	0.95	U	0.81	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
2-Chloronaphthalene	0.95	U	0.84	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
2-Chlorophenol	0.95	U	0.83	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
2-Methylphenol (o-Cresol)	0.95	U	0.95	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
2-Nitroaniline	0.95	U	0.84	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
2-Nitrophenol	2.4	UY	1.2	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/17/2016 12:44 AM
3-Nitroaniline	0.95	U	0.79	0.95	9.5	µg/L	1	6/17/2016 12:44 AM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.7	4.8	9.5	µg/L	1	6/17/2016 12:44 AM
4,6-Dinitro-2-methylphenol	0.95	UY	0.85	0.95	9.5	µg/L	1	6/17/2016 12:44 AM
4-Bromophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
4-Chloroaniline [p-Chloroaniline]	0.95	U	0.77	0.95	9.5	µg/L	1	6/17/2016 12:44 AM
4-Chlorophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
4-Nitroaniline	2.4	U	1.1	2.4	9.5	µg/L	1	6/17/2016 12:44 AM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/17/2016 12:44 AM
Benzoic acid	2.4	UZ	1.9	2.4	24	µg/L	1	6/17/2016 12:44 AM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/17/2016 12:44 AM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
Bis(2-chloroethyl) ether	2.4	U	0.98	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
Bis(2-chloroisopropyl)ether	2.4	UZ	1.1	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
Bis(2-ethylhexyl) phthalate	0.95	U	0.67	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Butyl benzyl phthalate	2.4	U	0.98	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
Carbazole	0.95	U	0.58	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Di-n-butyl phthalate	0.95	U	0.55	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
Dibenzofuran	0.95	U	0.72	0.95	3.8	µg/L	1	6/17/2016 12:44 AM
Diethyl phthalate	0.95	U	0.59	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Dimethyl phthalate	0.95	U	0.68	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Hexachlorobenzene	0.95	U	0.58	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Hexachlorobutadiene	0.95	U	0.81	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Hexachloroethane	0.95	U	0.70	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
N-Nitrosodi-n-propylamine	2.4	U	1.1	2.4	4.8	µg/L	1	6/17/2016 12:44 AM
N-Nitrosodimethylamine	0.95	UQ	0.60	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
N-Nitrosodiphenylamine	0.95	U	0.63	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/17/2016 12:44 AM
Pentachlorophenol	0.95	U	0.88	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Phenol	0.95	U	0.57	0.95	4.8	µg/L	1	6/17/2016 12:44 AM
Surr: 2,4,6-Tribromophenol	105			43-140		%Rec	1	6/17/2016 12:44 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606387-002 **Matrix:** Groundwater
Client Sample ID: WDS-SB23-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	79.3			44-119		%Rec	1	6/17/2016 12:44 AM
Surr: 2-Fluorophenol	43.4			19-119		%Rec	1	6/17/2016 12:44 AM
Surr: Nitrobenzene-d5	77.0			44-120		%Rec	1	6/17/2016 12:44 AM
Surr: Phenol-d5	29.4	Q		30-130		%Rec	1	6/17/2016 12:44 AM
Surr: Terphenyl-d14	91.9			50-134		%Rec	1	6/17/2016 12:44 AM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.041		0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
2-Methylnaphthalene	0.057		0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Naphthalene	0.11		0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Phenanthrene	0.028		0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:19 PM
Surr: 2-Fluorobiphenyl	62.9			53-106		%Rec	1	6/17/2016 7:19 PM
Surr: Nitrobenzene-d5	64.1			55-111		%Rec	1	6/17/2016 7:19 PM
Surr: Terphenyl-d14	78.5			58-132		%Rec	1	6/17/2016 7:19 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/20/2016 1:48 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/20/2016 1:48 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/20/2016 1:48 PM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/20/2016 1:48 PM
Acetone	4.6	J	0.56	0.60	10	µg/L	1	6/20/2016 1:48 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/20/2016 1:48 PM

RTI Laboratories - Analytical Report

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606387-002 **Matrix:** Groundwater
Client Sample ID: WDS-SB23-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/20/2016 1:48 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/20/2016 1:48 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/20/2016 1:48 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/20/2016 1:48 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/20/2016 1:48 PM
Surr: 4-Bromofluorobenzene	88.6			85-114		%Rec	1	6/20/2016 1:48 PM
Surr: Dibromofluoromethane	93.6			80-119		%Rec	1	6/20/2016 1:48 PM
Surr: Toluene-d8	92.6			89-112		%Rec	1	6/20/2016 1:48 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606387-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB23-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/24/2016 11:37 PM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/24/2016 11:37 PM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/24/2016 11:37 PM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/24/2016 11:37 PM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/24/2016 11:37 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/24/2016 11:37 PM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/24/2016 11:37 PM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/24/2016 11:37 PM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/24/2016 11:37 PM
Surr: Tetrachloro-m-xylene	83.3			40-135		%Rec	1	6/24/2016 11:37 PM
Surr: Decachlorobiphenyl	47.4			40-135		%Rec	1	6/24/2016 11:37 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	100,000		550	1,000	20,000	µg/L	2000	7/25/2016 6:47 PM
Arsenic	140	G	0.61	1.0	1.5	µg/L	5	7/25/2016 1:41 PM
Barium	630		0.18	0.50	25	µg/L	5	7/25/2016 1:41 PM
Beryllium	10	U	5.0	10	20	µg/L	100	7/25/2016 5:28 PM
Cadmium	1.6		0.27	0.50	1.0	µg/L	5	7/25/2016 1:41 PM
Calcium	27,000		1,800	2,500	20,000	µg/L	100	7/25/2016 3:44 PM
Chromium	190	JG	6.1	10	200	µg/L	100	7/25/2016 3:44 PM
Cobalt	40	J	2.4	10	100	µg/L	100	7/25/2016 3:44 PM
Copper	230		4.9	10	100	µg/L	100	7/25/2016 3:44 PM
Iron	140,000		950	2,500	4,000	µg/L	100	7/25/2016 3:44 PM
Lead	44		0.24	0.50	1.0	µg/L	5	7/25/2016 1:41 PM
Magnesium	25,000		810	2,500	10,000	µg/L	100	7/25/2016 3:44 PM
Manganese	1,100		5.3	10	100	µg/L	100	7/25/2016 3:44 PM
Nickel	100	J	4.1	10	200	µg/L	100	7/25/2016 3:44 PM
Potassium	13,000		2,100	2,500	10,000	µg/L	100	7/25/2016 3:44 PM
Selenium	5.8		1.5	2.5	5.0	µg/L	5	7/25/2016 1:41 PM
Sodium	15,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:28 PM
Thallium	1.0	J	0.16	0.50	2.0	µg/L	5	7/25/2016 1:41 PM
Vanadium	190		9.8	10	80	µg/L	100	7/25/2016 3:44 PM
Zinc	220		1.8	2.5	50	µg/L	5	7/25/2016 1:41 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.50	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:26 AM
Silver	0.76	J	0.24	0.50	1.5	µg/L	5	6/16/2016 11:26 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.94	U	0.85	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
1,2-Dichlorobenzene	0.94	U	0.87	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
1,3-Dichlorobenzene	0.94	U	0.71	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
1,4-Dichlorobenzene	2.4	U	0.98	2.4	4.7	µg/L	1	6/17/2016 1:09 AM

RTI Laboratories - Analytical Report

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606387-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB23-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.4	U	1.0	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
2,4,6-Trichlorophenol	0.94	U	0.91	0.94	3.8	µg/L	1	6/17/2016 1:09 AM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
2,4-Dinitrophenol	9.4	UY	4.8	9.4	24	µg/L	1	6/17/2016 1:09 AM
2,4-Dinitrotoluene	0.94	U	0.57	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
2,6-Dinitrotoluene	0.94	U	0.80	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
2-Chloronaphthalene	0.94	U	0.83	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
2-Chlorophenol	0.94	U	0.82	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
2-Methylphenol (o-Cresol)	0.94	U	0.94	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
2-Nitroaniline	0.94	U	0.83	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
2-Nitrophenol	2.4	UY	1.2	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
3,3´-Dichlorobenzidine	2.4	U	1.5	2.4	19	µg/L	1	6/17/2016 1:09 AM
3-Nitroaniline	0.94	U	0.79	0.94	9.4	µg/L	1	6/17/2016 1:09 AM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.4	µg/L	1	6/17/2016 1:09 AM
4,6-Dinitro-2-methylphenol	0.94	UY	0.84	0.94	9.4	µg/L	1	6/17/2016 1:09 AM
4-Bromophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
4-Chloroaniline [p-Chloroaniline]	0.94	U	0.76	0.94	9.4	µg/L	1	6/17/2016 1:09 AM
4-Chlorophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
4-Nitroaniline	2.4	U	1.1	2.4	9.4	µg/L	1	6/17/2016 1:09 AM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/17/2016 1:09 AM
Benzoic acid	2.4	UZ	1.9	2.4	24	µg/L	1	6/17/2016 1:09 AM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/17/2016 1:09 AM
Bis(2-chloroethoxy) methane	2.4	U	0.99	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
Bis(2-chloroethyl) ether	2.4	U	0.97	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
Bis(2-chloroisopropyl)ether	2.4	UZ	1.1	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
Bis(2-ethylhexyl) phthalate	0.94	U	0.66	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Butyl benzyl phthalate	2.4	U	0.97	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
Carbazole	0.94	U	0.57	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Di-n-butyl phthalate	0.94	U	0.55	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
Dibenzofuran	0.94	U	0.71	0.94	3.8	µg/L	1	6/17/2016 1:09 AM
Diethyl phthalate	0.94	U	0.58	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Dimethyl phthalate	0.94	U	0.67	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Hexachlorobenzene	0.94	U	0.58	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Hexachlorobutadiene	0.94	U	0.81	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Hexachloroethane	0.94	U	0.69	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Isophorone	0.94	U	0.91	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
N-Nitrosodi-n-propylamine	2.4	U	1.1	2.4	4.7	µg/L	1	6/17/2016 1:09 AM
N-Nitrosodimethylamine	0.94	UQ	0.60	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
N-Nitrosodiphenylamine	0.94	U	0.62	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Nitrobenzene	2.4	U	1.2	2.4	2.8	µg/L	1	6/17/2016 1:09 AM
Pentachlorophenol	0.94	U	0.87	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Phenol	0.94	U	0.57	0.94	4.7	µg/L	1	6/17/2016 1:09 AM
Surr: 2,4,6-Tribromophenol	101			43-140		%Rec	1	6/17/2016 1:09 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606387-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB23-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	77.0			44-119		%Rec	1	6/17/2016 1:09 AM
Surr: 2-Fluorophenol	42.0			19-119		%Rec	1	6/17/2016 1:09 AM
Surr: Nitrobenzene-d5	73.6			44-120		%Rec	1	6/17/2016 1:09 AM
Surr: Phenol-d5	28.7	Q		30-130		%Rec	1	6/17/2016 1:09 AM
Surr: Terphenyl-d14	89.4			50-134		%Rec	1	6/17/2016 1:09 AM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.030		0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
2-Methylnaphthalene	0.043		0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Naphthalene	0.078		0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Phenanthrene	0.024		0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 7:46 PM
Surr: 2-Fluorobiphenyl	57.1			53-106		%Rec	1	6/17/2016 7:46 PM
Surr: Nitrobenzene-d5	58.9			55-111		%Rec	1	6/17/2016 7:46 PM
Surr: Terphenyl-d14	80.3			58-132		%Rec	1	6/17/2016 7:46 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/20/2016 2:15 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/20/2016 2:15 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/20/2016 2:15 PM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/20/2016 2:15 PM
Acetone	4.2	J	0.56	0.60	10	µg/L	1	6/20/2016 2:15 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/20/2016 2:15 PM

RTI Laboratories - Analytical Report

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606387-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB23-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/20/2016 2:15 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/20/2016 2:15 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/20/2016 2:15 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/20/2016 2:15 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/20/2016 2:15 PM
Surr: 4-Bromofluorobenzene	90.5			85-114		%Rec	1	6/20/2016 2:15 PM
Surr: Dibromofluoromethane	90.4			80-119		%Rec	1	6/20/2016 2:15 PM
Surr: Toluene-d8	94.9			89-112		%Rec	1	6/20/2016 2:15 PM

RTI Laboratories - Analytical Report

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 3:15:00 PM
Project: Camp Hero
Lab ID: 1606387-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB24-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.095	µg/L	1	6/25/2016 12:01 AM
Aroclor 1221	0.038	U	0.029	0.038	0.095	µg/L	1	6/25/2016 12:01 AM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/25/2016 12:01 AM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/25/2016 12:01 AM
Aroclor 1248	0.038	U	0.030	0.038	0.095	µg/L	1	6/25/2016 12:01 AM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/25/2016 12:01 AM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/25/2016 12:01 AM
Aroclor 1262	0.095	U	0.049	0.095	0.19	µg/L	1	6/25/2016 12:01 AM
Aroclor 1268	0.038	U	0.027	0.038	0.095	µg/L	1	6/25/2016 12:01 AM
Surr: Tetrachloro-m-xylene	64.5			40-135		%Rec	1	6/25/2016 12:01 AM
Surr: Decachlorobiphenyl	41.3			40-135		%Rec	1	6/25/2016 12:01 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	680,000		28	50	1,000	µg/L	100	7/25/2016 5:42 PM
Arsenic	310	G	12	20	30	µg/L	100	7/25/2016 4:02 PM
Barium	10,000		3.7	10	500	µg/L	100	7/25/2016 4:02 PM
Beryllium	87		5.0	10	20	µg/L	100	7/25/2016 5:42 PM
Cadmium	15		0.27	0.50	1.0	µg/L	5	7/25/2016 1:43 PM
Calcium	180,000		1,800	2,500	20,000	µg/L	100	7/25/2016 4:02 PM
Chromium	1,600		6.1	10	200	µg/L	100	7/25/2016 4:02 PM
Cobalt	560		2.4	10	100	µg/L	100	7/25/2016 4:02 PM
Copper	1,300		4.9	10	100	µg/L	100	7/25/2016 4:02 PM
Iron	930,000		950	2,500	4,000	µg/L	100	7/25/2016 4:02 PM
Lead	530		4.8	10	20	µg/L	100	7/25/2016 4:02 PM
Magnesium	260,000		810	2,500	10,000	µg/L	100	7/25/2016 4:02 PM
Manganese	8,900		5.3	10	100	µg/L	100	7/25/2016 4:02 PM
Nickel	1,100		4.1	10	200	µg/L	100	7/25/2016 4:02 PM
Potassium	130,000		2,100	2,500	10,000	µg/L	100	7/25/2016 4:02 PM
Selenium	50	U	29	50	100	µg/L	100	7/25/2016 4:02 PM
Sodium	34,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:42 PM
Thallium	17	J	3.3	10	40	µg/L	100	7/25/2016 4:02 PM
Vanadium	2,700		9.8	10	80	µg/L	100	7/25/2016 4:02 PM
Zinc	5,400		35	50	1,000	µg/L	100	7/25/2016 4:02 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	4.1	G	0.19	0.75	2.5	µg/L	5	6/16/2016 11:26 AM
Silver	5.0		0.24	0.50	1.5	µg/L	5	6/16/2016 11:26 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.93	U	0.84	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
1,2,4-Trichlorobenzene	0.94	UH	0.85	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
1,2-Dichlorobenzene	0.93	U	0.86	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
1,2-Dichlorobenzene	0.94	UH	0.87	0.94	4.7	µg/L	1	6/30/2016 5:00 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 3:15:00 PM
Project:	Camp Hero		
Lab ID:	1606387-004	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB24-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,3-Dichlorobenzene	0.93	U	0.71	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
1,3-Dichlorobenzene	0.94	UH	0.71	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
1,4-Dichlorobenzene	2.3	U	0.97	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
1,4-Dichlorobenzene	2.4	UH	0.98	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
2,4,5-Trichlorophenol	2.3	U	1.0	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
2,4,5-Trichlorophenol	2.4	UH	1.0	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
2,4,6-Trichlorophenol	0.93	U	0.90	0.93	3.7	µg/L	1	6/17/2016 1:33 AM
2,4,6-Trichlorophenol	0.94	UH	0.91	0.94	3.8	µg/L	1	6/30/2016 5:00 PM
2,4-Dichlorophenol	2.3	U	1.3	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
2,4-Dichlorophenol	2.4	UH	1.3	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
2,4-Dimethyl phenol	2.3	U	2.1	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
2,4-Dimethyl phenol	2.4	UH	2.1	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
2,4-Dinitrophenol	9.3	UY	4.7	9.3	23	µg/L	1	6/17/2016 1:33 AM
2,4-Dinitrophenol	9.4	UH	4.8	9.4	24	µg/L	1	6/30/2016 5:00 PM
2,4-Dinitrotoluene	0.93	U	0.56	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
2,4-Dinitrotoluene	0.94	UH	0.57	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
2,6-Dinitrotoluene	0.93	U	0.79	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
2,6-Dinitrotoluene	0.94	UH	0.80	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
2-Chloronaphthalene	0.93	U	0.83	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
2-Chloronaphthalene	0.94	UH	0.83	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
2-Chlorophenol	0.93	U	0.81	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
2-Chlorophenol	0.94	UH	0.82	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
2-Methylphenol (o-Cresol)	0.93	U	0.93	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
2-Methylphenol (o-Cresol)	0.94	UH	0.94	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
2-Nitroaniline	0.93	U	0.82	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
2-Nitroaniline	0.94	UH	0.83	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
2-Nitrophenol	2.3	UY	1.2	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
2-Nitrophenol	2.4	UH	1.2	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
3,3´-Dichlorobenzidine	2.3	U	1.5	2.3	19	µg/L	1	6/17/2016 1:33 AM
3,3´-Dichlorobenzidine	2.4	UH	1.5	2.4	19	µg/L	1	6/30/2016 5:00 PM
3-Nitroaniline	0.93	U	0.78	0.93	9.3	µg/L	1	6/17/2016 1:33 AM
3-Nitroaniline	0.94	UH	0.79	0.94	9.4	µg/L	1	6/30/2016 5:00 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.3	µg/L	1	6/17/2016 1:33 AM
3/4-Methylphenol [m/p-Cresol]	4.7	UH	1.7	4.7	9.4	µg/L	1	6/30/2016 5:00 PM
4,6-Dinitro-2-methylphenol	0.93	UY	0.83	0.93	9.3	µg/L	1	6/17/2016 1:33 AM
4,6-Dinitro-2-methylphenol	0.94	UH	0.84	0.94	9.4	µg/L	1	6/30/2016 5:00 PM
4-Bromophenyl phenyl ether	0.93	U	0.74	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
4-Bromophenyl phenyl ether	0.94	UH	0.74	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
4-Chloro-3-methylphenol	2.3	U	1.2	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
4-Chloro-3-methylphenol	2.4	UH	1.2	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
4-Chloroaniline [p-Chloroaniline]	0.93	U	0.76	0.93	9.3	µg/L	1	6/17/2016 1:33 AM
4-Chloroaniline [p-Chloroaniline]	0.94	UH	0.76	0.94	9.4	µg/L	1	6/30/2016 5:00 PM
4-Chlorophenyl phenyl ether	0.93	U	0.74	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
4-Chlorophenyl phenyl ether	0.94	UH	0.74	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
4-Nitroaniline	2.3	U	1.1	2.3	9.3	µg/L	1	6/17/2016 1:33 AM
4-Nitroaniline	2.4	UH	1.1	2.4	9.4	µg/L	1	6/30/2016 5:00 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 3:15:00 PM
Project: Camp Hero
Lab ID: 1606387-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB24-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
4-Nitrophenol	2.3	UQ	1.3	2.3	23	µg/L	1	6/17/2016 1:33 AM
4-Nitrophenol	2.4	UH	1.3	2.4	24	µg/L	1	6/30/2016 5:00 PM
Benzoic acid	2.3	UZ	1.9	2.3	23	µg/L	1	6/17/2016 1:33 AM
Benzoic acid	2.4	UY QH	1.9	2.4	24	µg/L	1	6/30/2016 5:00 PM
Benzyl alcohol	2.3	U	2.0	2.3	23	µg/L	1	6/17/2016 1:33 AM
Benzyl alcohol	2.4	UH	2.0	2.4	24	µg/L	1	6/30/2016 5:00 PM
Bis(2-chloroethoxy) methane	2.3	U	0.98	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
Bis(2-chloroethoxy) methane	2.4	UH	0.99	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
Bis(2-chloroethyl) ether	2.3	U	0.97	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
Bis(2-chloroethyl) ether	2.4	UH	0.97	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
Bis(2-chloroisopropyl)ether	2.3	UZ	1.0	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
Bis(2-chloroisopropyl)ether	2.4	UY ZH	1.1	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
Bis(2-ethylhexyl) phthalate	0.93	U	0.66	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Bis(2-ethylhexyl) phthalate	0.94	UH	0.66	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Butyl benzyl phthalate	2.3	U	0.96	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
Butyl benzyl phthalate	2.4	UH	0.97	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
Carbazole	0.93	U	0.57	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Carbazole	0.94	UH	0.57	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Di-n-butyl phthalate	0.93	U	0.54	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Di-n-butyl phthalate	0.94	UH	0.55	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Di-n-octyl phthalate	2.3	U	1.1	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
Di-n-octyl phthalate	2.4	UH	1.1	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
Dibenzofuran	0.93	U	0.70	0.93	3.7	µg/L	1	6/17/2016 1:33 AM
Dibenzofuran	0.94	UH	0.71	0.94	3.8	µg/L	1	6/30/2016 5:00 PM
Diethyl phthalate	0.93	U	0.58	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Diethyl phthalate	0.94	UH	0.58	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Dimethyl phthalate	0.93	U	0.67	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Dimethyl phthalate	0.94	UH	0.67	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Hexachlorobenzene	0.93	U	0.57	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Hexachlorobenzene	0.94	UH	0.58	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Hexachlorobutadiene	0.93	U	0.80	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Hexachlorobutadiene	0.94	UH	0.81	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Hexachloroethane	0.93	U	0.69	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Hexachloroethane	0.94	UH	0.69	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Isophorone	0.93	U	0.90	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Isophorone	0.94	UH	0.91	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
N-Nitrosodi-n-propylamine	2.3	U	1.0	2.3	4.7	µg/L	1	6/17/2016 1:33 AM
N-Nitrosodi-n-propylamine	2.4	UH	1.1	2.4	4.7	µg/L	1	6/30/2016 5:00 PM
N-Nitrosodimethylamine	0.93	UQ	0.59	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
N-Nitrosodimethylamine	0.94	UQ H	0.60	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
N-Nitrosodiphenylamine	0.93	U	0.62	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
N-Nitrosodiphenylamine	0.94	UH	0.62	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Nitrobenzene	2.3	U	1.1	2.3	2.8	µg/L	1	6/17/2016 1:33 AM
Nitrobenzene	2.4	UH	1.2	2.4	2.8	µg/L	1	6/30/2016 5:00 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 3:15:00 PM
Project: Camp Hero
Lab ID: 1606387-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB24-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pentachlorophenol	0.93	U	0.86	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Pentachlorophenol	0.94	UH	0.87	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Phenol	0.93	U	0.56	0.93	4.7	µg/L	1	6/17/2016 1:33 AM
Phenol	0.94	UQH	0.57	0.94	4.7	µg/L	1	6/30/2016 5:00 PM
Surr: 2,4,6-Tribromophenol	44.8			43-140		%Rec	1	6/17/2016 1:33 AM
Surr: 2,4,6-Tribromophenol	86.9	H		43-140		%Rec	1	6/30/2016 5:00 PM
Surr: 2-Fluorobiphenyl	37.3	Q		44-119		%Rec	1	6/17/2016 1:33 AM
Surr: 2-Fluorobiphenyl	50.4	H		44-119		%Rec	1	6/30/2016 5:00 PM
Surr: 2-Fluorophenol	33.8			19-119		%Rec	1	6/17/2016 1:33 AM
Surr: 2-Fluorophenol	31.4	H		19-119		%Rec	1	6/30/2016 5:00 PM
Surr: Nitrobenzene-d5	37.3	Q		44-120		%Rec	1	6/17/2016 1:33 AM
Surr: Nitrobenzene-d5	49.7	H		44-120		%Rec	1	6/30/2016 5:00 PM
Surr: Phenol-d5	23.7	Q		30-130		%Rec	1	6/17/2016 1:33 AM
Surr: Phenol-d5	24.0	QH		30-130		%Rec	1	6/30/2016 5:00 PM
Surr: Terphenyl-d14	40.1	Q		50-134		%Rec	1	6/17/2016 1:33 AM
Surr: Terphenyl-d14	68.1	H		50-134		%Rec	1	6/30/2016 5:00 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
2-Methylnaphthalene	0.026		0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Acenaphthene	0.056		0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Naphthalene	0.069		0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Phenanthrene	0.025		0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:14 PM
Surr: 2-Fluorobiphenyl	41.8	Q		53-106		%Rec	1	6/17/2016 8:14 PM
Surr: Nitrobenzene-d5	49.0	Q		55-111		%Rec	1	6/17/2016 8:14 PM
Surr: Terphenyl-d14	35.3	Q		58-132		%Rec	1	6/17/2016 8:14 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/20/2016 2:41 PM

RTI Laboratories - Analytical Report

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 3:15:00 PM
Project: Camp Hero
Lab ID: 1606387-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB24-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/20/2016 2:41 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/20/2016 2:41 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
2-Butanone [MEK]	3.3	J	2.3	5.0	10	µg/L	1	6/20/2016 2:41 PM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/20/2016 2:41 PM
Acetone	7.8	J	0.56	0.60	10	µg/L	1	6/20/2016 2:41 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/20/2016 2:41 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Methylene chloride	2.2	J	0.27	0.60	5.0	µg/L	1	6/20/2016 2:41 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/20/2016 2:41 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/20/2016 2:41 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/20/2016 2:41 PM
Surr: 4-Bromofluorobenzene	87.5			85-114		%Rec	1	6/20/2016 2:41 PM
Surr: Dibromofluoromethane	92.7			80-119		%Rec	1	6/20/2016 2:41 PM
Surr: Toluene-d8	95.6			89-112		%Rec	1	6/20/2016 2:41 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 10:15:00 AM
Project: Camp Hero
Lab ID: 1606387-005 **Matrix:** Groundwater
Client Sample ID: H12-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/24/2016 3:29 PM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/24/2016 3:29 PM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/24/2016 3:29 PM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/24/2016 3:29 PM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/24/2016 3:29 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/24/2016 3:29 PM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/24/2016 3:29 PM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/24/2016 3:29 PM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/24/2016 3:29 PM
Surr: Tetrachloro-m-xylene	57.1			40-135		%Rec	1	6/24/2016 3:29 PM
Surr: Decachlorobiphenyl	40.3			40-135		%Rec	1	6/24/2016 3:29 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	1,100	GX	1.4	2.5	50	µg/L	5	7/25/2016 12:12 PM
Arsenic	8.7		0.61	1.0	1.5	µg/L	5	7/25/2016 12:12 PM
Barium	38		0.18	0.50	25	µg/L	5	7/25/2016 12:12 PM
Beryllium	0.50	U	0.25	0.50	1.0	µg/L	5	7/25/2016 5:13 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/25/2016 12:12 PM
Calcium	48,000	X	90	120	1,000	µg/L	5	7/25/2016 12:12 PM
Chromium	2.0	JG	0.30	0.50	10	µg/L	5	7/25/2016 12:12 PM
Cobalt	1.8	J	0.12	0.50	5.0	µg/L	5	7/25/2016 12:12 PM
Copper	1.5	J	0.24	0.50	5.0	µg/L	5	7/25/2016 12:12 PM
Iron	37,000	X	48	120	200	µg/L	5	7/25/2016 12:12 PM
Lead	3.8		0.24	0.50	1.0	µg/L	5	7/25/2016 12:12 PM
Magnesium	6,800		41	120	500	µg/L	5	7/25/2016 12:12 PM
Manganese	1,400	X	0.26	0.50	5.0	µg/L	5	7/25/2016 12:12 PM
Nickel	3.0	J	0.20	0.50	10	µg/L	5	7/25/2016 12:12 PM
Potassium	8,200	X	110	120	500	µg/L	5	7/25/2016 12:12 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/25/2016 12:12 PM
Sodium	11,000	X	58	120	500	µg/L	5	7/25/2016 12:12 PM
Thallium	0.50	U	0.16	0.50	2.0	µg/L	5	7/25/2016 12:12 PM
Vanadium	3.6	J	0.49	0.50	4.0	µg/L	5	7/25/2016 12:12 PM
Zinc	8.8	J	1.8	2.5	50	µg/L	5	7/25/2016 12:12 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.0	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:10 AM
Silver	0.30	J	0.24	0.50	1.5	µg/L	5	6/16/2016 11:10 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.93	U	0.84	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
1,2-Dichlorobenzene	0.93	U	0.86	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
1,3-Dichlorobenzene	0.93	U	0.71	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
1,4-Dichlorobenzene	2.3	U	0.97	2.3	4.7	µg/L	1	6/16/2016 6:58 PM

RTI Laboratories - Analytical Report

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 10:15:00 AM
Project: Camp Hero
Lab ID: 1606387-005 **Matrix:** Groundwater
Client Sample ID: H12-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.3	U	1.0	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
2,4,6-Trichlorophenol	0.93	U	0.90	0.93	3.7	µg/L	1	6/16/2016 6:58 PM
2,4-Dichlorophenol	2.3	U	1.3	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
2,4-Dimethyl phenol	2.3	U	2.1	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
2,4-Dinitrophenol	9.3	UY	4.7	9.3	23	µg/L	1	6/16/2016 6:58 PM
2,4-Dinitrotoluene	0.93	U	0.56	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
2,6-Dinitrotoluene	0.93	U	0.79	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
2-Chloronaphthalene	0.93	U	0.83	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
2-Chlorophenol	0.93	U	0.81	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
2-Methylphenol (o-Cresol)	0.93	U	0.93	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
2-Nitroaniline	0.93	U	0.82	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
2-Nitrophenol	2.3	UY	1.2	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
3,3´-Dichlorobenzidine	2.3	UX	1.5	2.3	19	µg/L	1	6/16/2016 6:58 PM
3-Nitroaniline	0.93	U	0.78	0.93	9.3	µg/L	1	6/16/2016 6:58 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.3	µg/L	1	6/16/2016 6:58 PM
4,6-Dinitro-2-methylphenol	0.93	UY	0.83	0.93	9.3	µg/L	1	6/16/2016 6:58 PM
4-Bromophenyl phenyl ether	0.93	U	0.74	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
4-Chloro-3-methylphenol	2.3	U	1.2	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
4-Chloroaniline [p-Chloroaniline]	0.93	U	0.76	0.93	9.3	µg/L	1	6/16/2016 6:58 PM
4-Chlorophenyl phenyl ether	0.93	U	0.74	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
4-Nitroaniline	2.3	U	1.1	2.3	9.3	µg/L	1	6/16/2016 6:58 PM
4-Nitrophenol	2.3	UQ	1.3	2.3	23	µg/L	1	6/16/2016 6:58 PM
Benzoic acid	2.3	UZ	1.9	2.3	23	µg/L	1	6/16/2016 6:58 PM
Benzyl alcohol	2.3	U	2.0	2.3	23	µg/L	1	6/16/2016 6:58 PM
Bis(2-chloroethoxy) methane	2.3	U	0.98	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
Bis(2-chloroethyl) ether	2.3	U	0.97	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
Bis(2-chloroisopropyl)ether	2.3	UZ	1.0	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
Bis(2-ethylhexyl) phthalate	0.93	U	0.66	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Butyl benzyl phthalate	2.3	U	0.96	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
Carbazole	3.3	J	0.57	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Di-n-butyl phthalate	0.93	U	0.54	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Di-n-octyl phthalate	2.3	U	1.1	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
Dibenzofuran	4.2		0.70	0.93	3.7	µg/L	1	6/16/2016 6:58 PM
Diethyl phthalate	0.93	U	0.58	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Dimethyl phthalate	0.93	U	0.67	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Hexachlorobenzene	0.93	U	0.57	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Hexachlorobutadiene	0.93	U	0.80	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Hexachloroethane	0.93	U	0.69	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Isophorone	0.93	U	0.90	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
N-Nitrosodi-n-propylamine	2.3	U	1.0	2.3	4.7	µg/L	1	6/16/2016 6:58 PM
N-Nitrosodimethylamine	0.93	UQ X	0.59	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
N-Nitrosodiphenylamine	0.93	U	0.62	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Nitrobenzene	2.3	U	1.1	2.3	2.8	µg/L	1	6/16/2016 6:58 PM
Pentachlorophenol	0.93	UX	0.86	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Phenol	0.93	UX	0.56	0.93	4.7	µg/L	1	6/16/2016 6:58 PM
Surr: 2,4,6-Tribromophenol	110			43-140		%Rec	1	6/16/2016 6:58 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 10:15:00 AM
Project:	Camp Hero		
Lab ID:	1606387-005	**Matrix:**	Groundwater
Client Sample ID:	H12-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	86.6			44-119		%Rec	1	6/16/2016 6:58 PM
Surr: 2-Fluorophenol	44.0			19-119		%Rec	1	6/16/2016 6:58 PM
Surr: Nitrobenzene-d5	82.5			44-120		%Rec	1	6/16/2016 6:58 PM
Surr: Phenol-d5	31.1			30-130		%Rec	1	6/16/2016 6:58 PM
Surr: Terphenyl-d14	93.7			50-134		%Rec	1	6/16/2016 6:58 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	12		0.75	0.75	0.75	µg/L	40	6/25/2016 1:58 AM
2-Methylnaphthalene	12		0.75	0.75	0.75	µg/L	40	6/25/2016 1:58 AM
Acenaphthene	11		0.75	0.75	0.75	µg/L	40	6/25/2016 1:58 AM
Acenaphthylene	0.39		0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Anthracene	0.28		0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Benz(a)anthracene	0.026		0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Benzo(b)fluoranthene	0.027		0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Chrysene	0.024		0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Fluoranthene	0.73		0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Fluorene	5.5		0.75	0.75	0.75	µg/L	40	6/25/2016 1:58 AM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Naphthalene	97	J	0.75	0.75	0.75	µg/L	40	6/25/2016 1:58 AM
Phenanthrene	13		0.75	0.75	0.75	µg/L	40	6/25/2016 1:58 AM
Pyrene	0.34		0.019	0.019	0.019	µg/L	1	6/17/2016 8:42 PM
Surr: 2-Fluorobiphenyl	45.4	Q		53-106		%Rec	1	6/17/2016 8:42 PM
Surr: Nitrobenzene-d5	50.4	Q		55-111		%Rec	1	6/17/2016 8:42 PM
Surr: Terphenyl-d14	71.1			58-132		%Rec	1	6/17/2016 8:42 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/20/2016 3:07 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
1,2-Dibromo-3-chloropropane	2.0	UX	1.0	2.0	5.0	µg/L	1	6/20/2016 3:07 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
2-Butanone [MEK]	3.1	J	2.3	5.0	10	µg/L	1	6/20/2016 3:07 PM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/20/2016 3:07 PM
Acetone	15	X	0.56	0.60	10	µg/L	1	6/20/2016 3:07 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/20/2016 3:07 PM

RTI Laboratories - Analytical Report

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 10:15:00 AM
Project: Camp Hero
Lab ID: 1606387-005 **Matrix:** Groundwater
Client Sample ID: H12-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/20/2016 3:07 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Methylene chloride	0.60	UX	0.27	0.60	5.0	µg/L	1	6/20/2016 3:07 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/20/2016 3:07 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/20/2016 3:07 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/20/2016 3:07 PM
Surr: 4-Bromofluorobenzene	93.3			85-114		%Rec	1	6/20/2016 3:07 PM
Surr: Dibromofluoromethane	96.1			80-119		%Rec	1	6/20/2016 3:07 PM
Surr: Toluene-d8	93.6			89-112		%Rec	1	6/20/2016 3:07 PM

RTI Laboratories - DATES REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606387-001A	TB-GW-060916-01	6/9/2016 9:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/20/2016 10:03 AM	6/20/2016 10:03 AM
1606387-002A	WDS-SB23-GW	6/9/2016 2:00 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/20/2016 1:48 PM	6/20/2016 1:48 PM
1606387-002B	WDS-SB23-GW	6/9/2016 2:00 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/14/2016 4:50 PM	6/17/2016 12:44 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 7:19 PM
1606387-002C	WDS-SB23-GW	6/9/2016 2:00 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/25/2016 12:28 PM
1606387-002D	WDS-SB23-GW	6/9/2016 2:00 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 1:39 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 3:42 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:27 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 6:46 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:25 AM
1606387-003A	WDS-SB23-GW DUP	6/9/2016 2:00 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/20/2016 2:15 PM	6/20/2016 2:15 PM
1606387-003B	WDS-SB23-GW DUP	6/9/2016 2:00 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/14/2016 4:50 PM	6/17/2016 1:09 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 7:46 PM
1606387-003C	WDS-SB23-GW DUP	6/9/2016 2:00 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/24/2016 11:37 PM
1606387-003D	WDS-SB23-GW DUP	6/9/2016 2:00 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 1:41 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 3:44 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:28 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 6:47 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:26 AM
1606387-004A	WDS-SB24-GW	6/9/2016 3:15 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/20/2016 2:41 PM	6/20/2016 2:41 PM
1606387-004B	WDS-SB24-GW	6/9/2016 3:15 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/14/2016 4:50 PM	6/17/2016 1:33 AM

RTI Laboratories - DATES REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606387-004B	WDS-SB24-GW	6/9/2016 3:15 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/14/2016 4:50 PM	6/20/2016 6:44 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 8:14 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 5:00 PM
1606387-004C	WDS-SB24-GW	6/9/2016 3:15 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/25/2016 12:01 AM
1606387-004D	WDS-SB24-GW	6/9/2016 3:15 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 1:43 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 4:02 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:42 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:26 AM
1606387-005A	H12-SB01-GW	6/9/2016 10:15 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/20/2016 3:07 PM	6/20/2016 3:07 PM
1606387-005B	H12-SB01-GW	6/9/2016 10:15 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/14/2016 4:50 PM	6/16/2016 6:58 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/17/2016 8:42 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/15/2016 9:41 AM	6/25/2016 1:58 AM
1606387-005C	H12-SB01-GW	6/9/2016 10:15 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/24/2016 3:29 PM
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/25/2016 8:47 AM
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/25/2016 9:13 AM
1606387-005D	H12-SB01-GW	6/9/2016 10:15 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 12:12 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 3:23 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:13 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:10 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40156**

Sample ID:	**MB-40156**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/14/2016**	RunNo:	**86748**
Client ID:	**PBW**	Batch ID:	**40156**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682887**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									UY
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									UY
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40156**

Sample ID:	MB-40156	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	PBW	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682887

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	5.0	5.0									UZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	29		25.00		115	43	140				
Surr: 2-Fluorobiphenyl	22		25.00		89.7	44	119				
Surr: 2-Fluorophenol	14		25.00		56.4	19	119				
Surr: Nitrobenzene-d5	22		25.00		88.9	44	120				
Surr: Phenol-d5	9.1		25.00		36.4	33	122				
Surr: Terphenyl-d14	27		25.00		110	50	134				

Sample ID:	LCS-40156	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	LCSW	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682888

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	12	5.0	20.00	0	59.2	29	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40156**

Sample ID:	**LCS-40156**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/14/2016**	RunNo:	**86748**
Client ID:	**LCSW**	Batch ID:	**40156**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682888**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	11	5.0	20.00	0	55.2	32	111				
1,3-Dichlorobenzene	10	5.0	20.00	0	52.0	28	110				
1,4-Dichlorobenzene	11	5.0	20.00	0	53.2	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	97.1	53	123				
2,4,6-Trichlorophenol	20	4.0	20.00	0	100	50	125				
2,4-Dichlorophenol	19	5.0	20.00	0	95.4	47	121				
2,4-Dimethyl phenol	15	5.0	20.00	0	74.9	31	124				
2,4-Dinitrophenol	62	25	50.00	0	124	23	143				JY
2,4-Dinitrotoluene	21	5.0	20.00	0	105	57	128				
2,6-Dinitrotoluene	19	5.0	20.00	0	92.6	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	64.7	40	116				
2-Chlorophenol	16	5.0	20.00	0	77.7	38	117				
2-Methylphenol (o-Cresol)	15	5.0	20.00	0	74.1	30	117				
2-Nitroaniline	19	5.0	20.00	0	97.1	55	127				
2-Nitrophenol	19	5.0	20.00	0	94.6	47	123				Y
3,3´-Dichlorobenzidine	19	20	20.00	0	94.4	27	129				J
3-Nitroaniline	18	10	20.00	0	90.9	41	128				
3/4-Methylphenol [m/p-Cresol]	27	10	40.00	0	67.1	25	120				
4,6-Dinitro-2-methylphenol	25	10	20.00	0	125	44	137				Y
4-Bromophenyl phenyl ether	16	5.0	20.00	0	78.6	55	124				
4-Chloro-3-methylphenol	20	5.0	20.00	0	102	52	119				
4-Chloroaniline [p-Chloroaniline]	18	10	20.00	0	88.6	33	117				
4-Chlorophenyl phenyl ether	17	5.0	20.00	0	86.6	53	121				
4-Nitroaniline	17	10	20.00	0	87.2	50	130				
4-Nitrophenol	24	25	50.00	0	47.8	50	130				JQ
Benzoic acid	33	25	40.00	0	82.6	50	130				Z
Benzyl alcohol	14	25	20.00	0	71.6	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	75.6	48	120				
Bis(2-chloroethyl) ether	14	5.0	20.00	0	67.7	43	118				
Bis(2-chloroisopropyl)ether	13	5.0	20.00	0	66.3	37	130				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40156**

Sample ID:	LCS-40156	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	LCSW	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682888

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	20	5.0	20.00	0	99.2	55	135				
Butyl benzyl phthalate	20	5.0	20.00	0	98.1	53	134				
Carbazole	18	5.0	20.00	0	88.0	60	122				
Di-n-butyl phthalate	18	5.0	20.00	0	88.8	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	99.0	51	140				
Dibenzofuran	16	4.0	20.00	0	79.8	53	118				
Diethyl phthalate	19	5.0	20.00	0	96.2	56	125				
Dimethyl phthalate	19	5.0	20.00	0	92.6	45	127				
Hexachlorobenzene	16	5.0	20.00	0	79.4	53	125				
Hexachlorobutadiene	10	5.0	20.00	0	52.0	22	124				
Hexachloroethane	8.6	5.0	20.00	0	43.2	21	115				
Isophorone	15	5.0	20.00	0	77.4	42	124				
N-Nitrosodi-n-propylamine	15	5.0	20.00	0	73.5	50	130				
N-Nitrosodimethylamine	8.0	5.0	20.00	0	39.9	50	130				Q
N-Nitrosodiphenylamine	16	5.0	20.00	0	79.2	51	123				
Nitrobenzene	15	3.0	20.00	0	76.6	45	121				
Pentachlorophenol	23	5.0	20.00	0	113	35	138				
Phenol	8.3	5.0	20.00	0	41.6	34	121				
Surr: 2,4,6-Tribromophenol	29		25.00		117	43	140				
Surr: 2-Fluorobiphenyl	22		25.00		89.7	44	119				
Surr: 2-Fluorophenol	14		25.00		56.2	19	119				
Surr: Nitrobenzene-d5	23		25.00		90.2	44	120				
Surr: Phenol-d5	10		25.00		40.6	33	122				
Surr: Terphenyl-d14	26		25.00		106	50	134				

Sample ID:	1606387-005BMSD	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	H12-SB01-GWSD1	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682893

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	12	4.8	19.05	0	61.0	29	116	10.88	6.55	25	
1,2-Dichlorobenzene	11	4.8	19.05	0	57.1	32	111	10.72	1.40	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40156

Sample ID:	**1606387-005BMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/14/2016**	RunNo:	**86748**
Client ID:	**H12-SB01-GWSD1**	Batch ID:	**40156**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682893**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	10	4.8	19.05	0	52.8	28	110	10.06	0.0779	25	
1,4-Dichlorobenzene	10	4.8	19.05	0	54.0	29	112	10.13	1.46	25	
2,4,5-Trichlorophenol	17	4.8	19.05	0	90.7	53	123	17.63	2.07	25	
2,4,6-Trichlorophenol	18	3.8	19.05	0	94.4	50	125	17.42	3.21	25	
2,4-Dichlorophenol	16	4.8	19.05	0	83.8	47	121	15.68	1.86	25	
2,4-Dimethyl phenol	14	4.8	19.05	0	74.1	31	124	13.39	5.25	25	
2,4-Dinitrophenol	58	24	47.62	0	122	23	143	62.77	8.04	25	JY
2,4-Dinitrotoluene	18	4.8	19.05	0	93.4	57	128	18.81	5.64	25	
2,6-Dinitrotoluene	16	4.8	19.05	0	84.4	57	124	16.39	2.01	25	
2-Chloronaphthalene	12	4.8	19.05	0	60.6	40	116	11.00	4.90	25	
2-Chlorophenol	12	4.8	19.05	0	65.0	38	117	12.24	1.26	25	
2-Methylphenol (o-Cresol)	12	4.8	19.05	0	63.6	30	117	12.03	0.624	25	
2-Nitroaniline	17	4.8	19.05	0	88.1	55	127	16.84	0.427	25	
2-Nitrophenol	17	4.8	19.05	0	87.5	47	123	15.98	4.20	25	Y
3,3´-Dichlorobenzidine	1.9	19	19.05	0	10.1	27	129	1.667	14.3	25	JQ
3-Nitroaniline	16	9.5	19.05	0	82.0	41	128	15.90	1.86	25	
3/4-Methylphenol [m/p-Cresol]	22	9.5	38.10	0	57.6	25	120	20.93	4.67	25	
4,6-Dinitro-2-methylphenol	23	9.5	19.05	0	120	44	137	24.86	8.24	25	Y
4-Bromophenyl phenyl ether	13	4.8	19.05	0	68.8	55	124	12.66	3.48	25	
4-Chloro-3-methylphenol	17	4.8	19.05	0	91.8	52	119	17.05	2.53	25	
4-Chloroaniline [p-Chloroaniline]	15	9.5	19.05	0	77.6	33	117	13.53	8.84	25	
4-Chlorophenyl phenyl ether	14	4.8	19.05	0	75.6	53	121	13.64	5.44	25	
4-Nitroaniline	16	9.5	19.05	0	83.0	50	130	16.26	2.84	25	
4-Nitrophenol	24	24	47.62	0	51.0	50	130	25.87	6.41	25	
Benzoic acid	41	24	38.10	0	107	50	130	45.39	10.9	25	Z
Benzyl alcohol	12	24	19.05	0	63.8	31	112	11.23	8.01	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.05	0	66.8	48	120	12.20	4.31	25	
Bis(2-chloroethyl) ether	11	4.8	19.05	0	59.8	43	118	11.22	1.46	25	
Bis(2-chloroisopropyl)ether	11	4.8	19.05	0	59.6	37	130	11.23	1.12	25	Z
Bis(2-ethylhexyl) phthalate	16	4.8	19.05	0	86.2	55	135	15.76	4.01	25	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40156

Sample ID:	1606387-005BMSD	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	H12-SB01-GWSD1	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682893

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	16	4.8	19.05	0	84.0	53	134	15.58	2.61	25	
Carbazole	18	4.8	19.05	3.252	77.7	60	122	18.66	3.27	25	
Di-n-butyl phthalate	15	4.8	19.05	0	77.0	59	127	14.89	1.53	25	
Di-n-octyl phthalate	16	4.8	19.05	0	85.9	51	140	15.87	2.98	25	
Dibenzofuran	17	3.8	19.05	4.234	66.3	53	118	14.98	11.8	25	
Diethyl phthalate	17	4.8	19.05	0	86.9	56	125	17.29	4.38	25	
Dimethyl phthalate	16	4.8	19.05	0	82.3	45	127	15.37	1.96	25	
Hexachlorobenzene	13	4.8	19.05	0	68.5	53	125	12.60	3.51	25	
Hexachlorobutadiene	11	4.8	19.05	0	56.2	22	124	10.08	6.03	25	
Hexachloroethane	8.6	4.8	19.05	0	45.4	21	115	8.245	4.66	25	
Isophorone	13	4.8	19.05	0	66.6	42	124	12.32	2.82	25	
N-Nitrosodi-n-propylamine	13	4.8	19.05	0	67.5	50	130	12.90	0.348	25	
N-Nitrosodimethylamine	6.3	4.8	19.05	0	33.2	50	130	6.176	2.21	25	Q
N-Nitrosodiphenylamine	14	4.8	19.05	0	74.2	51	123	14.33	1.34	25	
Nitrobenzene	12	2.9	19.05	0	65.0	45	121	12.09	2.47	25	
Pentachlorophenol	27	4.8	19.05	0	140	35	138	30.73	13.9	25	Q
Phenol	5.7	4.8	19.05	0	29.8	34	121	6.559	14.4	25	Q
Surr: 2,4,6-Tribromophenol	26		23.81		109	43	140		0	25	
Surr: 2-Fluorobiphenyl	19		23.81		78.4	44	119		0	25	
Surr: 2-Fluorophenol	10		23.81		43.1	19	119		0	25	
Surr: Nitrobenzene-d5	18		23.81		74.5	44	120		0	25	
Surr: Phenol-d5	7.5		23.81		31.6	33	122		0	25	Q
Surr: Terphenyl-d14	21		23.81		89.1	50	134		0	25	

Sample ID:	1606387-005BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	H12-SB01-GWMS1	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682910

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	4.9	19.61	0	55.5	29	116				
1,2-Dichlorobenzene	11	4.9	19.61	0	54.6	32	111				
1,3-Dichlorobenzene	10	4.9	19.61	0	51.3	28	110				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40156**

Sample ID:	**1606387-005BMS**	Samp Type:	**MS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/14/2016**	RunNo:	**86748**
Client ID:	**H12-SB01-GWMS1**	Batch ID:	**40156**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682910**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	10	4.9	19.61	0	51.6	29	112				
2,4,5-Trichlorophenol	18	4.9	19.61	0	89.9	53	123				
2,4,6-Trichlorophenol	17	3.9	19.61	0	88.9	50	125				
2,4-Dichlorophenol	16	4.9	19.61	0	80.0	47	121				
2,4-Dimethyl phenol	13	4.9	19.61	0	68.3	31	124				
2,4-Dinitrophenol	63	25	49.02	0	128	23	143				JY
2,4-Dinitrotoluene	19	4.9	19.61	0	96.0	57	128				
2,6-Dinitrotoluene	16	4.9	19.61	0	83.6	57	124				
2-Chloronaphthalene	11	4.9	19.61	0	56.1	40	116				
2-Chlorophenol	12	4.9	19.61	0	62.4	38	117				
2-Methylphenol (o-Cresol)	12	4.9	19.61	0	61.4	30	117				
2-Nitroaniline	17	4.9	19.61	0	85.9	55	127				
2-Nitrophenol	16	4.9	19.61	0	81.5	47	123				Y
3,3´-Dichlorobenzidine	1.7	20	19.61	0	8.50	27	129				JQ
3-Nitroaniline	16	9.8	19.61	0	81.1	41	128				
3/4-Methylphenol [m/p-Cresol]	21	9.8	39.22	0	53.4	25	120				
4,6-Dinitro-2-methylphenol	25	9.8	19.61	0	127	44	137				Y
4-Bromophenyl phenyl ether	13	4.9	19.61	0	64.6	55	124				
4-Chloro-3-methylphenol	17	4.9	19.61	0	87.0	52	119				
4-Chloroaniline [p-Chloroaniline]	14	9.8	19.61	0	69.0	33	117				
4-Chlorophenyl phenyl ether	14	4.9	19.61	0	69.6	53	121				
4-Nitroaniline	16	9.8	19.61	0	83.0	50	130				
4-Nitrophenol	26	25	49.02	0	52.8	50	130				
Benzoic acid	45	25	39.22	0	116	50	130				Z
Benzyl alcohol	11	25	19.61	0	57.2	31	112				J
Bis(2-chloroethoxy) methane	12	4.9	19.61	0	62.2	48	120				
Bis(2-chloroethyl) ether	11	4.9	19.61	0	57.2	43	118				
Bis(2-chloroisopropyl)ether	11	4.9	19.61	0	57.2	37	130				Z
Bis(2-ethylhexyl) phthalate	16	4.9	19.61	0	80.4	55	135				
Butyl benzyl phthalate	16	4.9	19.61	0	79.4	53	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40156

Sample ID:	1606387-005BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/14/2016	RunNo:	86748
Client ID:	H12-SB01-GWMS1	Batch ID:	40156	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682910

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	19	4.9	19.61	3.252	78.6	60	122				
Di-n-butyl phthalate	15	4.9	19.61	0	76.0	59	127				
Di-n-octyl phthalate	16	4.9	19.61	0	81.0	51	140				
Dibenzofuran	15	3.9	19.61	4.234	54.8	53	118				
Diethyl phthalate	17	4.9	19.61	0	88.2	56	125				
Dimethyl phthalate	15	4.9	19.61	0	78.4	45	127				
Hexachlorobenzene	13	4.9	19.61	0	64.2	53	125				
Hexachlorobutadiene	10	4.9	19.61	0	51.4	22	124				
Hexachloroethane	8.2	4.9	19.61	0	42.0	21	115				
Isophorone	12	4.9	19.61	0	62.9	42	124				
N-Nitrosodi-n-propylamine	13	4.9	19.61	0	65.8	50	130				
N-Nitrosodimethylamine	6.2	4.9	19.61	0	31.5	50	130				Q
N-Nitrosodiphenylamine	14	4.9	19.61	0	73.1	51	123				
Nitrobenzene	12	2.9	19.61	0	61.6	45	121				
Pentachlorophenol	31	4.9	19.61	0	157	35	138				Q
Phenol	6.6	4.9	19.61	0	33.4	34	121				Q
Surr: 2,4,6-Tribromophenol	28		24.51		115	43	140				
Surr: 2-Fluorobiphenyl	19		24.51		77.4	44	119				
Surr: 2-Fluorophenol	11		24.51		43.1	19	119				
Surr: Nitrobenzene-d5	18		24.51		74.0	44	120				
Surr: Phenol-d5	7.7		24.51		31.6	33	122				Q
Surr: Terphenyl-d14	22		24.51		91.7	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40160**

Sample ID:	MB-40160	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	PBW	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1698350

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									U
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.24		0.5000		47.2	53	106				Q
Surr: Nitrobenzene-d5	0.24		0.5000		48.7	55	111				Q
Surr: Terphenyl-d14	0.43		0.5000		87.0	58	132				

Sample ID:	LCS-40160	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	LCSW	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1698351

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.21	0.020	0.4000	0	53.0	41	115				
2-Methylnaphthalene	0.25	0.020	0.4000	0	61.5	39	114				
Acenaphthene	0.25	0.020	0.4000	0	61.8	48	114				
Acenaphthylene	0.24	0.020	0.4000	0	59.7	35	121				
Anthracene	0.28	0.020	0.4000	0	70.9	53	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40160**

Sample ID:	LCS-40160	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	LCSW	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1698351

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.34	0.020	0.4000	0	84.2	59	120				
Benzo(a)pyrene	0.31	0.020	0.4000	0	76.5	53	120				
Benzo(b)fluoranthene	0.46	0.020	0.4000	0	114	53	126				
Benzo(g,h,i)perylene	0.36	0.020	0.4000	0	89.5	44	128				
Benzo(k)fluoranthene	0.33	0.020	0.4000	0	82.0	54	125				
Chrysene	0.33	0.020	0.4000	0	83.7	57	120				
Dibenzo(a,h)anthracene	0.43	0.020	0.4000	0	108	44	131				
Fluoranthene	0.34	0.020	0.4000	0	84.0	58	120				
Fluorene	0.26	0.020	0.4000	0	65.7	50	118				
Indeno(1,2,3-cd)pyrene	0.38	0.020	0.4000	0	95.6	48	130				
Naphthalene	0.24	0.020	0.4000	0	60.0	43	114				
Phenanthrene	0.27	0.020	0.4000	0	66.9	53	115				
Pyrene	0.29	0.020	0.4000	0	72.8	53	124				
Surr: 2-Fluorobiphenyl	0.29		0.5000		57.7	53	106				
Surr: Nitrobenzene-d5	0.31		0.5000		61.4	55	111				
Surr: Terphenyl-d14	0.46		0.5000		91.8	58	132				

Sample ID:	1606387-005BMS	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	H12-SB01-GWMS1	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1700089

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	3.7	0.020	0.4040	11.92	-2,050	41	115				JQ
2-Methylnaphthalene	3.6	0.020	0.4040	11.97	-2,070	39	114				JQ
Acenaphthene	3.5	0.020	0.4040	10.94	-1,850	48	114				JQ
Acenaphthylene	0.38	0.020	0.4040	0	92.8	35	121				
Anthracene	0.52	0.020	0.4040	10.89	-2,570	53	119				Q
Benz(a)anthracene	0.31	0.020	0.4040	0	77.9	59	120				
Benzo(a)pyrene	0.27	0.020	0.4040	0	67.9	53	120				
Benzo(b)fluoranthene	0.40	0.020	0.4040	0	98.3	53	126				
Benzo(g,h,i)perylene	0.16	0.020	0.4040	0	38.7	44	128				Q
Benzo(k)fluoranthene	0.26	0.020	0.4040	0	63.3	54	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40160**

Sample ID:	1606387-005BMS	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	H12-SB01-GWMS1	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1700089

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.30	0.020	0.4040	0	73.2	57	120				
Dibenzo(a,h)anthracene	0.22	0.020	0.4040	0	53.2	44	131				
Fluoranthene	0.97	0.020	0.4040	1.645	-167	58	120				Q
Fluorene	2.1	0.020	0.4040	5.494	-848	50	118				JQ
Indeno(1,2,3-cd)pyrene	0.19	0.020	0.4040	0	47.1	48	130				Q
Naphthalene	15	0.020	0.4040	97.29	-20,500	43	114				JQ
Phenanthrene	3.9	0.020	0.4040	12.56	-2,150	53	115				JQ
Pyrene	0.56	0.020	0.4040	0	138	53	124				Q
Surr: 2-Fluorobiphenyl	0.18		0.5051		35.9	53	106				Q
Surr: Nitrobenzene-d5	0.19		0.5051		37.3	55	111				Q
Surr: Terphenyl-d14	0.43		0.5051		86.0	58	132				

Sample ID:	1606387-005BMSD	Samp Type:	MSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	H12-SB01-GWSD1	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1700090

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	4.2	0.020	0.3960	11.92	-1,950	41	115	3.656	13.8	20	JQ
2-Methylnaphthalene	4.6	0.020	0.3960	11.97	-1,870	39	114	3.606	23.5	20	JRQ
Acenaphthene	4.1	0.020	0.3960	10.94	-1,740	48	114	3.480	15.3	20	JQ
Acenaphthylene	0.39	0.020	0.3960	0	99.0	35	121	0.3751	4.41	20	
Anthracene	0.49	0.020	0.3960	10.89	-2,630	53	119	0.5186	5.46	20	Q
Benz(a)anthracene	0.26	0.020	0.3960	0	66.6	59	120	0.3147	17.6	20	
Benzo(a)pyrene	0.19	0.020	0.3960	0	47.2	53	120	0.2741	37.9	20	RQ
Benzo(b)fluoranthene	0.26	0.020	0.3960	0	64.7	53	126	0.3971	43.1	20	R
Benzo(g,h,i)perylene	0.088	0.020	0.3960	0	22.3	44	128	0.1562	55.5	20	RQ
Benzo(k)fluoranthene	0.21	0.020	0.3960	0	52.2	54	125	0.2556	21.1	20	RQ
Chrysene	0.25	0.020	0.3960	0	62.2	57	120	0.2957	18.3	20	
Dibenzo(a,h)anthracene	0.12	0.020	0.3960	0	29.7	44	131	0.2150	58.5	20	RQ
Fluoranthene	1.1	0.020	0.3960	1.645	-133	58	120	0.9705	14.2	20	JQ
Fluorene	2.4	0.020	0.3960	5.494	-775	50	118	2.067	16.0	20	JQ
Indeno(1,2,3-cd)pyrene	0.11	0.020	0.3960	0	26.6	48	130	0.1902	57.3	20	RQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40160**

Sample ID:	1606387-005BMSD	Samp Type:	MSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	87458
Client ID:	H12-SB01-GWSD1	Batch ID:	40160	TestNo:	SW8270C	SW3510C		Analysis Date:	6/17/2016	SeqNo:	1700090

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	15	0.020	0.3960	97.29	-20,700	43	114	14.55	5.84	20	JQ
Phenanthrene	3.4	0.020	0.3960	12.56	-2,310	53	115	3.897	13.5	20	JQ
Pyrene	0.73	0.020	0.3960	0	184	53	124	0.5572	26.8	20	RQ
Surr: 2-Fluorobiphenyl	0.20		0.4950		40.5	53	106		0	20	Q
Surr: Nitrobenzene-d5	0.19		0.4950		39.2	55	111		0	20	Q
Surr: Terphenyl-d14	0.33		0.4950		66.2	58	132		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40163**

Sample ID:	MB-40163	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	PBW	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682208	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	0.87	2.5									JG	
Silver	1.5	1.5									U	

Sample ID:	LCS-40163	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	LCSW	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682209	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	440	2.5	400.0	0	109	85	117				G	
Silver	430	1.5	400.0	0	108	85	116					

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	H12-SB01-GWMS1	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682211	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	410	2.5	400.0	1.030	103	85	117				G	
Silver	400	1.5	400.0	0.3000	98.9	85	116					

Sample ID:	1606387-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	H12-SB01-GWSD1	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682213	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	440	2.5	400.0	1.030	109	85	117	413.2	5.29	20	G	
Silver	410	1.5	400.0	0.3000	102	85	116	396.1	3.28	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	MB-40174	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	PBW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1700956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9.8	50									JG
Arsenic	1.5	1.5									U
Barium	25	25									U
Cadmium	1.0	1.0									U
Calcium	1,000	1,000									U
Chromium	10	10									UG
Cobalt	5.0	5.0									U
Copper	5.0	5.0									U
Iron	200	200									U
Lead	1.0	1.0									U
Magnesium	500	500									U
Manganese	5.0	5.0									U
Nickel	0.23	10									J
Potassium	500	500									U
Selenium	5.0	5.0									U
Sodium	500	500									U
Thallium	2.0	2.0									U
Vanadium	4.0	4.0									U
Zinc	50	50									U

Sample ID:	LCS-40174	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	LCSW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701009

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	200	50	200.0	0	102	84	117				G
Arsenic	190	1.5	200.0	0	93.7	84	116				
Barium	180	25	200.0	0	90.9	86	114				
Cadmium	180	1.0	200.0	0	90.0	87	115				
Calcium	2,100	1,000	2,000	0	103	87	118				
Chromium	180	10	200.0	0	91.1	85	116				G
Cobalt	180	5.0	200.0	0	90.9	86	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	LCS-40174	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	LCSW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701009

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Copper	220	5.0	200.0	0	108	85	118				
Iron	1,800	200	2,000	0	89.7	87	118				
Lead	190	1.0	200.0	0	92.9	88	115				
Magnesium	1,900	500	2,000	0	96.9	83	118				
Manganese	180	5.0	200.0	0	91.7	87	115				
Nickel	200	10	200.0	0	102	85	117				
Potassium	2,000	500	2,000	0	99.4	87	115				
Selenium	180	5.0	200.0	0	92.0	80	120				
Sodium	2,300	500	2,000	0	115	85	117				
Thallium	180	2.0	200.0	0	90.6	82	116				
Vanadium	180	4.0	200.0	0	89.7	86	115				
Zinc	2,300	50	2,000	0	116	83	119				

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	H12-SB01-GWMS1	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	1,600	50	200.0	1,129	254	84	117				QG
Arsenic	220	1.5	200.0	8.730	103	84	116				
Barium	240	25	200.0	38.45	102	86	114				
Cadmium	200	1.0	200.0	0	101	87	115				
Calcium	51,000	1,000	2,000	47,600	179	87	118				Q
Chromium	200	10	200.0	2.025	98.3	85	116				G
Cobalt	200	5.0	200.0	1.815	99.9	86	115				
Copper	200	5.0	200.0	1.535	102	85	118				
Iron	40,000	200	2,000	36,990	174	87	118				Q
Lead	200	1.0	200.0	3.795	99.3	88	115				
Magnesium	9,100	500	2,000	6,805	116	83	118				
Manganese	1,700	5.0	200.0	1,402	144	87	115				Q
Nickel	210	10	200.0	2.965	101	85	117				
Potassium	11,000	500	2,000	8,164	117	87	115				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40174

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	H12-SB01-GWMS1	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Selenium	210	5.0	200.0	0	104	80	120				
Sodium	13,000	500	2,000	10,600	129	85	117				Q
Thallium	200	2.0	200.0	0	99.3	82	116				
Vanadium	200	4.0	200.0	3.590	98.1	86	115				
Zinc	200	50	200.0	8.840	98.0	83	119				

Sample ID:	1606387-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	H12-SB01-GWSD1	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701012

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	1,600	50	200.0	1,129	251	84	117	1,637	0.319	20	QG
Arsenic	210	1.5	200.0	8.730	103	84	116	215.6	0.773	20	
Barium	240	25	200.0	38.45	101	86	114	243.1	0.782	20	
Cadmium	200	1.0	200.0	0	99.9	87	115	203.0	1.56	20	
Calcium	51,000	1,000	2,000	47,600	169	87	118	51,180	0.405	20	Q
Chromium	200	10	200.0	2.025	98.1	85	116	198.6	0.202	20	G
Cobalt	200	5.0	200.0	1.815	98.8	86	115	201.6	1.03	20	
Copper	200	5.0	200.0	1.535	100	85	118	204.8	1.18	20	
Iron	40,000	200	2,000	36,990	150	87	118	40,470	1.21	20	Q
Lead	210	1.0	200.0	3.795	101	88	115	202.4	1.67	20	
Magnesium	9,100	500	2,000	6,805	117	83	118	9,125	0.188	20	
Manganese	1,700	5.0	200.0	1,402	142	87	115	1,690	0.283	20	Q
Nickel	200	10	200.0	2.965	99.6	85	117	205.8	1.76	20	
Potassium	11,000	500	2,000	8,164	118	87	115	10,510	0.189	20	Q
Selenium	200	5.0	200.0	0	99.6	80	120	207.6	4.09	20	
Sodium	13,000	500	2,000	10,600	122	85	117	13,180	1.11	20	Q
Thallium	200	2.0	200.0	0	101	82	116	198.7	1.29	20	
Vanadium	200	4.0	200.0	3.590	98.2	86	115	199.9	0.0350	20	
Zinc	200	50	200.0	8.840	96.0	83	119	204.8	2.01	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	MB-40174	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	PBW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701379

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	1.0	1.0									U

Sample ID:	LCS-40174	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	LCSW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701380

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	180	1.0	200.0	0	92.2	83	121				

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	H12-SB01-GWMS1	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701412

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	190	1.0	200.0	0	93.2	83	121				

Sample ID:	1606387-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	H12-SB01-GWSD1	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701413

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	190	1.0	200.0	0	93.5	83	121	186.4	0.319	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	LCS-40212	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86925
Client ID:	LCSW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1686475

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.10	2.000	0	70.4	50	114				
Aroclor 1260	1.7	0.15	2.000	0	87.2	20	127				
Surr: Tetrachloro-m-xylene	0.053		0.1000		52.6	48	111				
Surr: Decachlorobiphenyl	0.087		0.1000		87.1	47	122				

Sample ID:	MB-40212	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86925
Client ID:	PBW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1686476

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.062		0.1000		61.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.5	40	135				

Sample ID:	1606387-005CMS	Samp Type:	MS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87005
Client ID:	H12-SB01-GWMS1	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688027

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.093	1.869	0	76.0	50	114				
Aroclor 1260	1.1	0.14	1.869	0	59.8	20	127				
Surr: Tetrachloro-m-xylene	0.048		0.09346		51.1	48	111				
Surr: Decachlorobiphenyl	0.0030		0.09346		3.24	47	122				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	1606387-005CMSD	Samp Type:	MSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87005
Client ID:	H12-SB01-GWSD1	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688028

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.6	50	114	1.421	7.95	25	
Aroclor 1260	1.2	0.14	1.887	0	64.0	20	127	1.118	7.73	25	
Surr: Tetrachloro-m-xylene	0.063		0.09434		67.1	48	111		0	25	
Surr: Decachlorobiphenyl	0.031		0.09434		32.5	47	122		0	25	Q

Sample ID:	LCS-40212	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87004
Client ID:	LCSW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1688015

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.10	2.000	0	70.4	46	129				
Aroclor 1260	1.7	0.20	2.000	0	87.2	45	134				
Surr: Tetrachloro-m-xylene	0.053		0.1000		52.6	40	135				
Surr: Decachlorobiphenyl	0.087		0.1000		87.1	40	135				

Sample ID:	MB-40212	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87004
Client ID:	PBW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1688016

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.062		0.1000		61.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.5	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	**1606387-005CMS**	Samp Type:	**MS**	Test Code:	**SW_8082A**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**87006**
Client ID:	**H12-SB01-GWMS1**	Batch ID:	**40212**	TestNo:	**SW8082**	**SW3510C**		Analysis Date:	**6/25/2016**	SeqNo:	**1688065**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.093	1.869	0	76.0	46	129				
Aroclor 1260	1.1	0.19	1.869	0	59.8	45	134				
Surr: Tetrachloro-m-xylene	0.048		0.09346		51.1	40	135				
Surr: Decachlorobiphenyl	0.0030		0.09346		3.24	40	135				Q

Sample ID:	**1606387-005CMSD**	Samp Type:	**MSD**	Test Code:	**SW_8082A**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**87006**
Client ID:	**H12-SB01-GWSD1**	Batch ID:	**40212**	TestNo:	**SW8082**	**SW3510C**		Analysis Date:	**6/25/2016**	SeqNo:	**1688066**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.6	46	129	1.421	7.95	25	
Aroclor 1260	1.2	0.19	1.887	0	64.0	45	134	1.118	7.73	25	
Surr: Tetrachloro-m-xylene	0.063		0.09434		67.1	40	135		0	25	
Surr: Decachlorobiphenyl	0.031		0.09434		32.5	40	135		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696498

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,6-Trichlorophenol	5.0	5.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	20	20									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitrophenol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Diethyl phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696498

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	5.0	5.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	40	125				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	50	110				
Surr: 2-Fluorophenol	11		25.00		44.0	20	110				
Surr: Nitrobenzene-d5	18		25.00		70.5	40	110				
Surr: Phenol-d5	7.7		25.00		30.7	20	130				
Surr: Terphenyl-d14	27		25.00		107	50	135				

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696499

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,2-Dichlorobenzene	9.8	5.0	20.00	0	49.1	32	111				
1,3-Dichlorobenzene	8.7	5.0	20.00	0	43.4	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	20	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696499

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	37	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitrophenol	26	25	50.00	0	52.0	30	150				
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	1.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	1.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitrosodi-n-propylamine	14	5.0	20.00	0	70.6	49	119				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	30	150				
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	3.0	20.00	0	62.3	45	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696499

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	21	5.0	20.00	0	103	38	138				
Phenol	6.2	5.0	20.00	0	31.2	30	150				
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	50	130				Q
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696502

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.1	4.9	19.42	0	36.4	29	116				
1,2-Dichlorobenzene	7.1	4.9	19.42	0	36.7	32	111				
1,3-Dichlorobenzene	6.0	4.9	19.42	0	31.2	28	110				
1,4-Dichlorobenzene	6.3	4.9	19.42	0	32.3	29	112				
2,4,6-Trichlorophenol	14	3.9	19.42	0	71.9	50	125				
2,4-Dichlorophenol	12	4.9	19.42	0	63.1	47	121				
2,4-Dimethyl phenol	12	4.9	19.42	0	60.4	31	124				
2,4-Dinitrophenol	48	19	48.54	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.9	19.42	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.9	19.42	0	77.1	57	124				
2-Chloronaphthalene	9.7	4.9	19.42	0	49.7	40	116				
2-Chlorophenol	9.8	4.9	19.42	0	50.5	37	117				
2-Methylphenol (o-Cresol)	11	4.9	19.42	0	55.1	30	117				
2-Nitrophenol	11	4.9	19.42	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.42	0	84.5	27	129				J
3/4-Methylphenol [m/p-Cresol]	19	9.7	38.83	0	48.9	25	120				
4,6-Dinitro-2-methylphenol	19	9.7	19.42	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.7	4.9	19.42	0	49.8	55	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696502

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	14	4.9	19.42	0	72.8	52	119				
4-Chlorophenyl phenyl ether	11	4.9	19.42	0	55.8	53	121				
4-Nitrophenol	23	24	48.54	0	47.6	30	150				J
Bis(2-chloroethoxy) methane	11	4.9	19.42	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.2	0.97	19.42	0	47.5	43	118				
Bis(2-chloroisopropyl)ether	7.9	4.9	19.42	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.9	19.42	0	68.4	55	135				
Butyl benzyl phthalate	13	4.9	19.42	0	64.8	53	134				
Carbazole	19	4.9	19.42	0	97.2	60	122				
Di-n-butyl phthalate	13	4.9	19.42	0	65.0	59	127				
Di-n-octyl phthalate	14	4.9	19.42	0	72.2	51	140				
Diethyl phthalate	15	4.9	19.42	0	79.7	56	125				
Dimethyl phthalate	15	4.9	19.42	0	74.8	45	127				
Hexachlorobenzene	8.9	0.97	19.42	0	45.8	53	125				Q
Hexachlorobutadiene	5.0	4.9	19.42	0	25.9	22	124				
Hexachloroethane	5.6	4.9	19.42	0	28.9	21	115				
Isophorone	11	4.9	19.42	0	56.7	42	124				
N-Nitrosodi-n-propylamine	11	4.9	19.42	0	55.8	49	119				
N-Nitrosodimethylamine	4.9	4.9	19.42	0	25.4	30	150				Q
N-Nitrosodiphenylamine	13	4.9	19.42	0	65.0	51	123				
Nitrobenzene	9.4	2.9	19.42	0	48.5	45	121				
Pentachlorophenol	19	4.9	19.42	0	96.4	38	138				
Phenol	5.0	4.9	19.42	0	25.6	30	150				Q
Surr: 2,4,6-Tribromophenol	25		24.27		103	43	140				
Surr: 2-Fluorobiphenyl	15		24.27		62.3	44	119				
Surr: 2-Fluorophenol	8.1		24.27		33.3	19	119				
Surr: Nitrobenzene-d5	13		24.27		54.4	44	120				
Surr: Phenol-d5	6.6		24.27		27.3	50	130				Q
Surr: Terphenyl-d14	21		24.27		86.8	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696503

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.4	4.8	19.23	0	43.4	29	116	7.068	16.7	25	
1,2-Dichlorobenzene	8.6	4.8	19.23	0	45.0	32	111	7.117	19.4	25	
1,3-Dichlorobenzene	7.8	4.8	19.23	0	40.4	28	110	6.049	24.9	25	
1,4-Dichlorobenzene	8.0	4.8	19.23	0	41.6	29	112	6.262	24.3	25	
2,4,6-Trichlorophenol	16	3.8	19.23	0	80.6	50	125	13.95	10.5	25	
2,4-Dichlorophenol	14	4.8	19.23	0	72.3	47	121	12.25	12.6	25	
2,4-Dimethyl phenol	13	4.8	19.23	0	68.2	31	124	11.73	11.2	25	
2,4-Dinitrophenol	48	19	48.08	0	99.7	23	143	48.23	0.584	25	
2,4-Dinitrotoluene	18	4.8	19.23	0	91.6	57	128	17.43	1.07	25	
2,6-Dinitrotoluene	16	4.8	19.23	0	81.4	57	124	14.96	4.53	25	
2-Chloronaphthalene	11	4.8	19.23	0	59.0	40	116	9.650	16.1	25	
2-Chlorophenol	11	4.8	19.23	0	59.1	37	117	9.806	14.7	25	
2-Methylphenol (o-Cresol)	12	4.8	19.23	0	64.1	30	117	10.70	14.1	25	
2-Nitrophenol	13	4.8	19.23	0	68.2	47	123	11.20	15.8	25	
3,3´-Dichlorobenzidine	17	19	19.23	0	87.9	27	129	16.41	2.98	25	J
3/4-Methylphenol [m/p-Cresol]	22	9.6	38.46	0	57.2	25	120	18.98	14.8	25	
4,6-Dinitro-2-methylphenol	19	9.6	19.23	0	97.0	44	137	18.68	0.138	25	
4-Bromophenyl phenyl ether	10	4.8	19.23	0	54.2	55	124	9.660	7.69	25	Q
4-Chloro-3-methylphenol	16	4.8	19.23	0	80.8	52	119	14.13	9.58	25	
4-Chlorophenyl phenyl ether	12	4.8	19.23	0	62.4	53	121	10.83	10.4	25	
4-Nitrophenol	22	24	48.08	0	46.1	30	150	23.09	4.00	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.23	0	66.9	48	120	11.41	12.0	25	
Bis(2-chloroethyl) ether	11	0.96	19.23	0	56.6	43	118	9.214	16.5	25	
Bis(2-chloroisopropyl)ether	9.4	4.8	19.23	0	48.7	37	130	7.874	17.3	25	YZ
Bis(2-ethylhexyl) phthalate	12	4.8	19.23	0	61.6	55	135	13.27	11.4	25	
Butyl benzyl phthalate	12	4.8	19.23	0	61.4	53	134	12.57	6.20	25	
Carbazole	18	4.8	19.23	0	94.4	60	122	18.86	3.84	25	
Di-n-butyl phthalate	12	4.8	19.23	0	63.8	59	127	12.63	2.91	25	
Di-n-octyl phthalate	12	4.8	19.23	0	63.8	51	140	14.03	13.3	25	
Diethyl phthalate	16	4.8	19.23	0	81.0	56	125	15.48	0.652	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696503

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	15	4.8	19.23	0	77.4	45	127	14.51	2.58	25	
Hexachlorobenzene	8.8	0.96	19.23	0	45.6	53	125	8.893	1.29	25	Q
Hexachlorobutadiene	6.2	4.8	19.23	0	32.1	22	124	5.029	20.4	25	
Hexachloroethane	7.0	4.8	19.23	0	36.6	21	115	5.612	22.4	25	
Isophorone	12	4.8	19.23	0	64.2	42	124	11.01	11.4	25	
N-Nitrosodi-n-propylamine	12	4.8	19.23	0	64.8	49	119	10.84	14.0	25	
N-Nitrosodimethylamine	6.7	4.8	19.23	0	34.8	30	150	4.942	30.1	25	R
N-Nitrosodiphenylamine	14	4.8	19.23	0	71.3	51	123	12.63	8.20	25	
Nitrobenzene	11	2.9	19.23	0	56.3	45	121	9.408	14.0	25	
Pentachlorophenol	18	4.8	19.23	0	94.2	38	138	18.72	3.33	25	
Phenol	5.6	4.8	19.23	0	29.2	30	150	4.971	12.3	25	Q
Surr: 2,4,6-Tribromophenol	26		24.04		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		24.04		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.8		24.04		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		24.04		64.4	44	120		0	25	
Surr: Phenol-d5	7.6		24.04		31.6	50	130		0	25	Q
Surr: Terphenyl-d14	20		24.04		85.0	50	134		0	25	

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697973

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697973

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UY
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**MB-40262**	Samp Type:	**MBLK**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87440**
Client ID:	**PBW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697973**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	5.0	5.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	43	140				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	44	119				
Surr: 2-Fluorophenol	11		25.00		44.0	19	119				
Surr: Nitrobenzene-d5	18		25.00		70.5	44	120				
Surr: Phenol-d5	7.7		25.00		30.7	30	130				J
Surr: Terphenyl-d14	27		25.00		107	50	134				

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87440**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697974**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	92.7	53	123				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	25	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	38	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697974

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitroaniline	19	5.0	20.00	0	96.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3-Nitroaniline	20	10	20.00	0	101	41	128				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chloroaniline [p-Chloroaniline]	16	10	20.00	0	82.0	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitroaniline	23	10	20.00	0	113	50	130				
4-Nitrophenol	26	25	50.00	0	52.0	50	130				
Benzyl alcohol	10	25	20.00	0	52.5	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	5.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Dibenzofuran	16	4.0	20.00	0	78.5	53	118				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	5.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitrosodi-n-propylamine	14	5.0	20.00	0	70.6	50	130				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	50	130				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697974

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	5.0	20.00	0	62.3	45	121				
Pentachlorophenol	21	5.0	20.00	0	103	35	138				
Phenol	6.2	5.0	20.00	0	31.2	50	130				Q
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	30	130				J
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.9	4.8	19.05	0	36.4	29	116				
1,4-Dichlorobenzene	6.1	4.8	19.05	0	32.3	29	112				
2,4,5-Trichlorophenol	15	4.8	19.05	0	78.4	53	123				
2,4,6-Trichlorophenol	14	3.8	19.05	0	71.8	50	125				
2,4-Dichlorophenol	12	4.8	19.05	0	63.1	47	121				
2,4-Dimethyl phenol	12	4.8	19.05	0	60.4	31	124				
2,4-Dinitrophenol	47	24	47.62	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.8	19.05	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.8	19.05	0	77.0	57	124				
2-Chloronaphthalene	9.5	4.8	19.05	0	49.7	40	116				
2-Chlorophenol	9.6	4.8	19.05	0	50.5	38	117				
2-Methylphenol (o-Cresol)	10	4.8	19.05	0	55.1	30	117				
2-Nitroaniline	15	4.8	19.05	0	80.7	55	127				
2-Nitrophenol	11	4.8	19.05	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.05	0	84.5	27	129				J
3-Nitroaniline	16	9.5	19.05	0	86.0	41	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
3/4-Methylphenol [m/p-Cresol]	19	9.5	38.10	0	48.9	25	120				
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.5	4.8	19.05	0	49.8	55	124				Q
4-Chloro-3-methylphenol	14	4.8	19.05	0	72.8	52	119				
4-Chloroaniline [p-Chloroaniline]	14	9.5	19.05	0	72.0	33	117				
4-Chlorophenyl phenyl ether	11	4.8	19.05	0	55.8	53	121				
4-Nitroaniline	19	9.5	19.05	0	98.7	50	130				
4-Nitrophenol	23	24	47.62	0	47.6	50	130				JQ
Benzyl alcohol	8.3	24	19.05	0	43.6	31	112				J
Bis(2-chloroethoxy) methane	11	4.8	19.05	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.0	4.8	19.05	0	47.5	43	118				
Bis(2-chloroisopropyl)ether	7.7	4.8	19.05	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.8	19.05	0	68.4	55	135				
Butyl benzyl phthalate	12	4.8	19.05	0	64.8	53	134				
Carbazole	19	4.8	19.05	0	97.2	60	122				
Di-n-butyl phthalate	12	4.8	19.05	0	65.0	59	127				
Di-n-octyl phthalate	14	4.8	19.05	0	72.3	51	140				
Dibenzofuran	11	3.8	19.05	0	59.3	53	118				
Diethyl phthalate	15	4.8	19.05	0	79.7	56	125				
Dimethyl phthalate	14	4.8	19.05	0	74.8	45	127				
Hexachlorobenzene	8.7	4.8	19.05	0	45.8	53	125				Q
Hexachlorobutadiene	4.9	4.8	19.05	0	25.9	22	124				
Hexachloroethane	5.5	4.8	19.05	0	28.9	21	115				
Isophorone	11	4.8	19.05	0	56.7	42	124				
N-Nitrosodi-n-propylamine	11	4.8	19.05	0	55.8	50	130				
N-Nitrosodimethylamine	4.8	4.8	19.05	0	25.4	50	130				Q
N-Nitrosodiphenylamine	12	4.8	19.05	0	65.0	51	123				
Nitrobenzene	9.2	4.8	19.05	0	48.5	45	121				
Pentachlorophenol	18	4.8	19.05	0	96.4	35	138				
Phenol	4.9	4.8	19.05	0	25.6	50	130				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	25		23.81		103	43	140				
Surr: 2-Fluorobiphenyl	15		23.81		62.3	44	119				
Surr: 2-Fluorophenol	7.9		23.81		33.3	19	119				
Surr: Nitrobenzene-d5	13		23.81		54.4	44	120				
Surr: Phenol-d5	6.5		23.81		27.3	30	130				JQ
Surr: Terphenyl-d14	21		23.81		86.8	50	134				

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.3	4.8	19.05	0	43.5	29	116	6.933	17.7	25	
1,4-Dichlorobenzene	7.9	4.8	19.05	0	41.6	29	112	6.143	25.2	25	R
2,4,5-Trichlorophenol	16	4.8	19.05	0	84.0	53	123	14.93	6.90	25	
2,4,6-Trichlorophenol	15	3.8	19.05	0	80.6	50	125	13.69	11.5	25	
2,4-Dichlorophenol	14	4.8	19.05	0	72.3	47	121	12.02	13.5	25	
2,4-Dimethyl phenol	13	4.8	19.05	0	68.2	31	124	11.50	12.1	25	
2,4-Dinitrophenol	47	24	47.62	0	99.7	23	143	47.31	0.382	25	
2,4-Dinitrotoluene	17	4.8	19.05	0	91.6	57	128	17.10	2.04	25	
2,6-Dinitrotoluene	16	4.8	19.05	0	81.4	57	124	14.68	5.49	25	
2-Chloronaphthalene	11	4.8	19.05	0	59.0	40	116	9.467	17.0	25	
2-Chlorophenol	11	4.8	19.05	0	59.1	38	117	9.619	15.7	25	
2-Methylphenol (o-Cresol)	12	4.8	19.05	0	64.1	30	117	10.50	15.1	25	
2-Nitroaniline	17	4.8	19.05	0	88.4	55	127	15.37	9.16	25	
2-Nitrophenol	13	4.8	19.05	0	68.2	47	123	10.99	16.8	25	
3,3´-Dichlorobenzidine	17	19	19.05	0	87.9	27	129	16.10	3.94	25	J
3-Nitroaniline	19	9.5	19.05	0	98.6	41	128	16.37	13.7	25	
3/4-Methylphenol [m/p-Cresol]	22	9.5	38.10	0	57.2	25	120	18.62	15.7	25	
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	97.0	44	137	18.32	0.828	25	
4-Bromophenyl phenyl ether	10	4.8	19.05	0	54.2	55	124	9.476	8.65	25	Q
4-Chloro-3-methylphenol	15	4.8	19.05	0	80.8	52	119	13.86	10.5	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloroaniline [p-Chloroaniline]	16	9.5	19.05	0	81.6	33	117	13.72	12.4	25	
4-Chlorophenyl phenyl ether	12	4.8	19.05	0	62.4	53	121	10.62	11.3	25	
4-Nitroaniline	19	9.5	19.05	0	99.6	50	130	18.80	0.858	25	
4-Nitrophenol	22	24	47.62	0	46.1	50	130	22.65	3.03	25	JQ
Benzyl alcohol	9.9	24	19.05	0	52.2	31	112	8.305	18.0	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.05	0	66.9	48	120	11.19	13.0	25	
Bis(2-chloroethyl) ether	11	4.8	19.05	0	56.6	43	118	9.038	17.5	25	
Bis(2-chloroisopropyl)ether	9.3	4.8	19.05	0	48.7	37	130	7.724	18.3	25	YZ
Bis(2-ethylhexyl) phthalate	12	4.8	19.05	0	61.6	55	135	13.02	10.4	25	
Butyl benzyl phthalate	12	4.8	19.05	0	61.4	53	134	12.33	5.23	25	
Carbazole	18	4.8	19.05	0	94.4	60	122	18.50	2.87	25	
Di-n-butyl phthalate	12	4.8	19.05	0	63.8	59	127	12.39	1.94	25	
Di-n-octyl phthalate	12	4.8	19.05	0	63.8	51	140	13.76	12.3	25	
Dibenzofuran	13	3.8	19.05	0	66.4	53	118	11.30	11.2	25	
Diethyl phthalate	15	4.8	19.05	0	81.0	56	125	15.18	1.62	25	
Dimethyl phthalate	15	4.8	19.05	0	77.4	45	127	14.24	3.55	25	
Hexachlorobenzene	8.7	4.8	19.05	0	45.7	53	125	8.724	0.328	25	Q
Hexachlorobutadiene	6.1	4.8	19.05	0	32.1	22	124	4.933	21.4	25	
Hexachloroethane	7.0	4.8	19.05	0	36.6	21	115	5.505	23.4	25	
Isophorone	12	4.8	19.05	0	64.2	42	124	10.80	12.4	25	
N-Nitrosodi-n-propylamine	12	4.8	19.05	0	64.9	50	130	10.64	14.9	25	
N-Nitrosodimethylamine	6.6	4.8	19.05	0	34.8	50	130	4.848	31.0	25	RQ
N-Nitrosodiphenylamine	14	4.8	19.05	0	71.3	51	123	12.39	9.17	25	
Nitrobenzene	11	4.8	19.05	0	56.3	45	121	9.229	15.0	25	
Pentachlorophenol	18	4.8	19.05	0	94.2	35	138	18.36	2.36	25	
Phenol	5.6	4.8	19.05	0	29.2	50	130	4.876	13.3	25	Q
Surr: 2,4,6-Tribromophenol	25		23.81		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		23.81		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.7		23.81		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		23.81		64.4	44	120		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Phenol-d5	7.5		23.81		31.6	30	130		0	25	J
Surr: Terphenyl-d14	20		23.81		85.0	50	134		0	25	

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**MB-40262**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**PBW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697665**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UY
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	43	140				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	44	119				
Surr: 2-Fluorophenol	11		25.00		44.0	19	119				
Surr: Nitrobenzene-d5	18		25.00		70.5	44	120				
Surr: Phenol-d5	7.7		25.00		30.7	33	122				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Terphenyl-d14	27		25.00		107	50	134				

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697666

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,2-Dichlorobenzene	9.8	5.0	20.00	0	49.1	32	111				
1,3-Dichlorobenzene	8.7	5.0	20.00	0	43.4	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	92.7	53	123				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	25	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	38	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				
2-Nitroaniline	19	5.0	20.00	0	96.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3-Nitroaniline	20	10	20.00	0	101	41	128				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chloroaniline [p-Chloroaniline]	16	10	20.00	0	82.0	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitroaniline	23	10	20.00	0	113	50	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697666**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitrophenol	26	25	50.00	0	52.0	50	130				
Benzoic acid	20	25	40.00	0	48.8	50	130				JQY
Benzyl alcohol	10	25	20.00	0	52.5	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	5.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Dibenzofuran	16	4.0	20.00	0	78.5	53	118				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	5.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitrosodi-n-propylamine	14	5.0	20.00	0	70.6	50	130				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	50	130				Q
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	3.0	20.00	0	62.3	45	121				
Pentachlorophenol	21	5.0	20.00	0	103	35	138				
Phenol	6.2	5.0	20.00	0	31.2	34	121				Q
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	33	122				
Surr: Terphenyl-d14	26		25.00		105	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**1606422-008BMS-2**	Samp Type:	**MS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**ZZZZZZ**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697669**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.9	4.8	19.05	0	36.4	29	116				
1,2-Dichlorobenzene	7.0	4.8	19.05	0	36.6	32	111				
1,3-Dichlorobenzene	5.9	4.8	19.05	0	31.2	28	110				
1,4-Dichlorobenzene	6.1	4.8	19.05	0	32.3	29	112				
2,4,5-Trichlorophenol	15	4.8	19.05	0	78.4	53	123				
2,4,6-Trichlorophenol	14	3.8	19.05	0	71.8	50	125				
2,4-Dichlorophenol	12	4.8	19.05	0	63.1	47	121				
2,4-Dimethyl phenol	12	4.8	19.05	0	60.4	31	124				
2,4-Dinitrophenol	47	24	47.62	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.8	19.05	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.8	19.05	0	77.0	57	124				
2-Chloronaphthalene	9.5	4.8	19.05	0	49.7	40	116				
2-Chlorophenol	9.6	4.8	19.05	0	50.5	38	117				
2-Methylphenol (o-Cresol)	10	4.8	19.05	0	55.1	30	117				
2-Nitroaniline	15	4.8	19.05	0	80.7	55	127				
2-Nitrophenol	11	4.8	19.05	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.05	0	84.5	27	129				J
3-Nitroaniline	16	9.5	19.05	0	86.0	41	128				
3/4-Methylphenol [m/p-Cresol]	19	9.5	38.10	0	48.9	25	120				
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.5	4.8	19.05	0	49.8	55	124				Q
4-Chloro-3-methylphenol	14	4.8	19.05	0	72.8	52	119				
4-Chloroaniline [p-Chloroaniline]	14	9.5	19.05	0	72.0	33	117				
4-Chlorophenyl phenyl ether	11	4.8	19.05	0	55.8	53	121				
4-Nitroaniline	19	9.5	19.05	0	98.7	50	130				
4-Nitrophenol	23	24	47.62	0	47.6	50	130				JQ
Benzoic acid	20	24	38.10	0	52.0	50	130				JY
Benzyl alcohol	8.3	24	19.05	0	43.6	31	112				J
Bis(2-chloroethoxy) methane	11	4.8	19.05	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.0	4.8	19.05	0	47.5	43	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMS-2	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697669

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	7.7	4.8	19.05	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.8	19.05	0	68.4	55	135				
Butyl benzyl phthalate	12	4.8	19.05	0	64.8	53	134				
Carbazole	19	4.8	19.05	0	97.2	60	122				
Di-n-butyl phthalate	12	4.8	19.05	0	65.0	59	127				
Di-n-octyl phthalate	14	4.8	19.05	0	72.3	51	140				
Dibenzofuran	11	3.8	19.05	0	59.3	53	118				
Diethyl phthalate	15	4.8	19.05	0	79.7	56	125				
Dimethyl phthalate	14	4.8	19.05	0	74.8	45	127				
Hexachlorobenzene	8.7	4.8	19.05	0	45.8	53	125				Q
Hexachlorobutadiene	4.9	4.8	19.05	0	25.9	22	124				
Hexachloroethane	5.5	4.8	19.05	0	28.9	21	115				
Isophorone	11	4.8	19.05	0	56.7	42	124				
N-Nitrosodi-n-propylamine	11	4.8	19.05	0	55.8	50	130				
N-Nitrosodimethylamine	4.8	4.8	19.05	0	25.4	50	130				Q
N-Nitrosodiphenylamine	12	4.8	19.05	0	65.0	51	123				
Nitrobenzene	9.2	2.9	19.05	0	48.5	45	121				
Pentachlorophenol	18	4.8	19.05	0	96.4	35	138				
Phenol	4.9	4.8	19.05	0	25.6	34	121				Q
Surr: 2,4,6-Tribromophenol	25		23.81		103	43	140				
Surr: 2-Fluorobiphenyl	15		23.81		62.3	44	119				
Surr: 2-Fluorophenol	7.9		23.81		33.3	19	119				
Surr: Nitrobenzene-d5	13		23.81		54.4	44	120				
Surr: Phenol-d5	6.5		23.81		27.3	33	122				Q
Surr: Terphenyl-d14	21		23.81		86.8	50	134				

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.3	4.8	19.05	0	43.5	29	116	7.951	4.00	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	8.6	4.8	19.05	0	45.0	32	111	7.544	12.6	25	
1,3-Dichlorobenzene	7.7	4.8	19.05	0	40.4	28	110	6.777	12.7	25	
1,4-Dichlorobenzene	7.9	4.8	19.05	0	41.6	29	112	6.670	17.1	25	
2,4,5-Trichlorophenol	16	4.8	19.05	0	84.0	53	123	16.17	1.03	25	
2,4,6-Trichlorophenol	15	3.8	19.05	0	80.6	50	125	16.45	6.88	25	
2,4-Dichlorophenol	14	4.8	19.05	0	72.3	47	121	14.20	3.16	25	
2,4-Dimethyl phenol	13	4.8	19.05	0	68.2	31	124	12.62	2.88	25	
2,4-Dinitrophenol	47	24	47.62	0	99.7	23	143	56.35	17.1	25	
2,4-Dinitrotoluene	17	4.8	19.05	0	91.6	57	128	18.40	5.30	25	
2,6-Dinitrotoluene	16	4.8	19.05	0	81.4	57	124	15.63	0.811	25	
2-Chloronaphthalene	11	4.8	19.05	0	59.0	40	116	9.583	15.8	25	
2-Chlorophenol	11	4.8	19.05	0	59.1	38	117	10.36	8.31	25	
2-Methylphenol (o-Cresol)	12	4.8	19.05	0	64.1	30	117	10.98	10.6	25	
2-Nitroaniline	17	4.8	19.05	0	88.4	55	127	15.97	5.34	25	
2-Nitrophenol	13	4.8	19.05	0	68.2	47	123	13.42	3.16	25	
3,3´-Dichlorobenzidine	17	19	19.05	0	87.9	27	129	17.29	3.22	25	J
3-Nitroaniline	19	9.5	19.05	0	98.6	41	128	16.43	13.3	25	
3/4-Methylphenol [m/p-Cresol]	22	9.5	38.10	0	57.2	25	120	20.35	6.88	25	
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	97.0	44	137	23.24	22.9	25	
4-Bromophenyl phenyl ether	10	4.8	19.05	0	54.2	55	124	10.63	2.84	25	Q
4-Chloro-3-methylphenol	15	4.8	19.05	0	80.8	52	119	16.60	7.51	25	
4-Chloroaniline [p-Chloroaniline]	16	9.5	19.05	0	81.6	33	117	15.73	1.19	25	
4-Chlorophenyl phenyl ether	12	4.8	19.05	0	62.4	53	121	12.09	1.60	25	
4-Nitroaniline	19	9.5	19.05	0	99.6	50	130	16.95	11.2	25	
4-Nitrophenol	22	24	47.62	0	46.1	50	130	20.71	5.92	25	JQ
Benzoic acid	16	24	38.10	0	41.1	50	130	28.77	59.1	25	JRQY
Benzyl alcohol	9.9	24	19.05	0	52.2	31	112	10.97	9.83	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.05	0	66.9	48	120	11.17	13.1	25	
Bis(2-chloroethyl) ether	11	4.8	19.05	0	56.6	43	118	9.058	17.3	25	
Bis(2-chloroisopropyl)ether	9.3	4.8	19.05	0	48.7	37	130	8.990	3.13	25	YZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**1606422-008BMSD-2**	Samp Type:	**MSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**ZZZZZZ**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697670**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	12	4.8	19.05	0	61.6	55	135	14.85	23.5	25	
Butyl benzyl phthalate	12	4.8	19.05	0	61.4	53	134	15.10	25.3	25	R
Carbazole	18	4.8	19.05	0	94.4	60	122	16.12	10.9	25	
Di-n-butyl phthalate	12	4.8	19.05	0	63.8	59	127	14.29	16.2	25	
Di-n-octyl phthalate	12	4.8	19.05	0	63.8	51	140	14.93	20.4	25	
Dibenzofuran	13	3.8	19.05	0	66.4	53	118	11.95	5.58	25	
Diethyl phthalate	15	4.8	19.05	0	81.0	56	125	16.39	6.03	25	
Dimethyl phthalate	15	4.8	19.05	0	77.4	45	127	15.30	3.65	25	
Hexachlorobenzene	8.7	4.8	19.05	0	45.7	53	125	9.544	9.30	25	Q
Hexachlorobutadiene	6.1	4.8	19.05	0	32.1	22	124	5.913	3.35	25	
Hexachloroethane	7.0	4.8	19.05	0	36.6	21	115	5.485	23.7	25	
Isophorone	12	4.8	19.05	0	64.2	42	124	11.50	6.10	25	
N-Nitrosodi-n-propylamine	12	4.8	19.05	0	64.9	50	130	11.21	9.66	25	
N-Nitrosodimethylamine	6.6	4.8	19.05	0	34.8	50	130	5.534	18.0	25	Q
N-Nitrosodiphenylamine	14	4.8	19.05	0	71.3	51	123	13.36	1.65	25	
Nitrobenzene	11	2.9	19.05	0	56.3	45	121	10.01	6.89	25	
Pentachlorophenol	18	4.8	19.05	0	94.2	35	138	19.35	7.60	25	
Phenol	5.6	4.8	19.05	0	29.2	34	121	4.456	22.2	25	Q
Surr: 2,4,6-Tribromophenol	25		23.81		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		23.81		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.7		23.81		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		23.81		64.4	44	120		0	25	
Surr: Phenol-d5	7.5		23.81		31.6	33	122		0	25	Q
Surr: Terphenyl-d14	20		23.81		85.0	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86781

Sample ID:	VOA10 LCS 062016	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/20/2016	RunNo:	86781
Client ID:	LCSW	Batch ID:	R86781	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683699

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.7	1.0	10.00	0	96.6	78	124				
1,1,1-Trichloroethane	9.4	1.0	10.00	0	94.5	74	131				
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	99.5	71	121				
1,1,2-Trichloroethane	10	1.0	10.00	0	103	80	119				
1,1-Dichloroethane	9.1	2.0	10.00	0	91.0	77	125				
1,1-Dichloroethene	8.6	1.0	10.00	0	85.7	71	131				
1,2,3-Trichloropropane	9.4	1.0	10.00	0	94.1	73	122				
1,2-Dibromo-3-chloropropane	8.5	5.0	10.00	0	85.4	62	128				
1,2-Dibromoethane	10	1.0	10.00	0	100	77	121				
1,2-Dichloroethane	10	1.0	10.00	0	99.7	73	128				
1,2-Dichloropropane	10	1.0	10.00	0	102	78	122				
2-Butanone [MEK]	10	10	10.00	0	105	56	143				
2-Hexanone	9.7	2.0	10.00	0	97.1	57	139				Y
Acetone	11	10	10.00	0	105	39	160				
Benzene	9.2	1.0	10.00	0	92.4	79	120				
Bromodichloromethane	11	1.0	10.00	0	105	79	125				
Bromoform	8.0	1.0	10.00	0	79.8	66	130				
Carbon disulfide	8.1	1.0	10.00	0	81.0	64	133				
Carbon tetrachloride	9.5	1.0	10.00	0	95.2	72	136				
Chlorobenzene	9.4	1.0	10.00	0	94.2	82	118				
Chlorodibromomethane	10	1.0	10.00	0	99.6	74	126				Y
Chloroethane	10	2.0	10.00	0	102	60	138				
Chloroform	9.3	1.0	10.00	0	92.6	79	124				
Chloromethane	9.9	1.0	10.00	0	99.1	50	139				
cis-1,2-Dichloroethene	9.3	1.0	10.00	0	92.6	78	123				
cis-1,3-Dichloropropene	9.4	1.0	10.00	0	93.7	75	124				
Dichlorodifluoromethane [Freon-12]	9.2	1.0	10.00	0	92.2	32	152				
Ethylbenzene	9.4	1.0	10.00	0	94.3	79	121				
Methylene chloride	10	5.0	10.00	0	105	74	124				
Styrene	10	1.0	10.00	0	100	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86781

Sample ID: **VOA10 LCS 062016** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/20/2016** RunNo: **86781**

Client ID: **LCSW** Batch ID: **R86781** TestNo: **SW8260B** Analysis Date: **6/20/2016** SeqNo: **1683699**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	9.4	1.0	10.00	0	94.4	74	129				
Toluene	11	1.0	10.00	0	107	80	121				
trans-1,2-Dichloroethene	9.4	1.0	10.00	0	93.7	75	124				
trans-1,3-Dichloropropene	9.6	1.0	10.00	0	96.3	73	127				
Trichloroethene	9.8	1.0	10.00	0	98.0	79	123				
Trichlorofluoromethane [Freon-11]	10	1.0	10.00	0	101	65	141				
Vinyl acetate	10	5.0	10.00	0	103	54	146				
Vinyl chloride	10	1.0	10.00	0	104	58	137				
Xylene (total)	29	3.0	30.00	0	97.8	79	121				
Surr: 4-Bromofluorobenzene	59		60.00		97.8	85	114				
Surr: Dibromofluoromethane	52		60.00		86.2	80	119				
Surr: Toluene-d8	57		60.00		94.7	89	112				

Sample ID: **VOA10 MBLK 06201** Samp Type: **MBLK** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/20/2016** RunNo: **86781**

Client ID: **PBW** Batch ID: **R86781** TestNo: **SW8260B** Analysis Date: **6/20/2016** SeqNo: **1683701**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									U
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									UY
Acetone	2.7	10									J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86781

Sample ID:	VOA10 MBLK 06201	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/20/2016	RunNo:	86781
Client ID:	PBW	Batch ID:	R86781	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683701

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									UY
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	5.0	5.0									U
Styrene	1.0	1.0									U
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	46		50.00		91.3	85	114				
Surr: Dibromofluoromethane	42		50.00		84.4	80	119				
Surr: Toluene-d8	47		50.00		93.1	89	112				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86781

Sample ID: **1606387-005AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/20/2016** RunNo: **86781**

Client ID: **H12-SB01-GWSD1** Batch ID: **R86781** TestNo: **SW8260B** Analysis Date: **6/20/2016** SeqNo: **1683913**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	11	1.0	10.00	0	107	78	124	9.640	10.7	25	
1,1,1-Trichloroethane	11	1.0	10.00	0	106	74	131	10.60	0.283	25	
1,1,2,2-Tetrachloroethane	9.8	1.0	10.00	0	98.0	71	121	9.760	0.409	25	
1,1,2-Trichloroethane	10	1.0	10.00	0	103	80	119	10.63	3.64	25	
1,1-Dichloroethane	11	2.0	10.00	0	106	77	125	10.54	0.850	25	
1,1-Dichloroethene	11	1.0	10.00	0	108	71	131	10.46	2.73	25	
1,2,3-Trichloropropane	8.6	1.0	10.00	0	86.5	73	122	8.540	1.28	25	
1,2-Dibromo-3-chloropropane	7.5	5.0	10.00	0	75.4	62	128	5.880	24.7	25	
1,2-Dibromoethane	10	1.0	10.00	0	104	77	121	9.920	4.53	25	
1,2-Dichloroethane	11	1.0	10.00	0	114	73	128	10.84	5.47	25	
1,2-Dichloropropane	11	1.0	10.00	0	111	78	122	10.86	2.28	25	
2-Butanone [MEK]	13	10	10.00	3.140	96.6	56	143	11.86	7.62	25	
2-Hexanone	9.0	2.0	10.00	0	90.3	57	139	9.980	9.99	25	Y
Acetone	13	10	10.00	14.52	-13.9	39	160	13.46	2.48	25	Q
Benzene	11	1.0	10.00	0	105	79	120	10.19	3.28	25	
Bromodichloromethane	12	1.0	10.00	0	120	79	125	11.73	2.44	25	
Bromoform	7.5	1.0	10.00	0	74.6	66	130	7.290	2.31	25	
Carbon disulfide	11	1.0	10.00	0	105	64	133	10.39	1.24	25	
Carbon tetrachloride	11	1.0	10.00	0	111	72	136	10.37	6.80	25	
Chlorobenzene	10	1.0	10.00	0	103	82	118	9.780	4.79	25	
Chlorodibromomethane	11	1.0	10.00	0	110	74	126	10.29	6.76	25	Y
Chloroethane	13	2.0	10.00	0	131	60	138	13.06	0.153	25	
Chloroform	10	1.0	10.00	0	103	79	124	10.40	0.966	25	
Chloromethane	9.7	1.0	10.00	0	97.3	50	139	8.430	14.3	25	
cis-1,2-Dichloroethene	10	1.0	10.00	0	105	78	123	10.09	3.70	25	
cis-1,3-Dichloropropene	9.5	1.0	10.00	0	95.0	75	124	9.040	4.96	25	
Dichlorodifluoromethane [Freon-12]	11	1.0	10.00	0	114	32	152	10.48	8.15	25	
Ethylbenzene	11	1.0	10.00	0	105	79	121	10.47	0.666	25	
Methylene chloride	12	5.0	10.00	0	124	74	124	11.92	4.03	25	Q
Styrene	10	1.0	10.00	0	104	78	123	10.41	0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86781

Sample ID: **1606387-005AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/20/2016** RunNo: **86781**

Client ID: **H12-SB01-GWSD1** Batch ID: **R86781** TestNo: **SW8260B** Analysis Date: **6/20/2016** SeqNo: **1683913**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	11	1.0	10.00	0	110	74	129	11.19	1.62	25	
Toluene	12	1.0	10.00	0	120	80	121	11.92	0.419	25	
trans-1,2-Dichloroethene	12	1.0	10.00	0	116	75	124	11.45	0.870	25	
trans-1,3-Dichloropropene	9.9	1.0	10.00	0	98.6	73	127	9.600	2.67	25	
Trichloroethene	10	1.0	10.00	0	104	79	123	11.04	6.07	25	
Trichlorofluoromethane [Freon-11]	13	1.0	10.00	0	129	65	141	12.14	6.23	25	
Vinyl acetate	10	5.0	10.00	0	99.6	54	146	10.60	6.23	25	
Vinyl chloride	13	1.0	10.00	0	125	58	137	11.55	7.98	25	
Xylene (total)	32	3.0	30.00	0	107	79	121	31.10	3.51	25	
Surr: 4-Bromofluorobenzene	59		60.00		97.9	85	114		0	25	
Surr: Dibromofluoromethane	57		60.00		95.4	80	119		0	25	
Surr: Toluene-d8	61		60.00		102	89	112		0	25	

Sample ID: **1606387-005AMS** Samp Type: **MS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/20/2016** RunNo: **86781**

Client ID: **H12-SB01-GWMS1** Batch ID: **R86781** TestNo: **SW8260B** Analysis Date: **6/20/2016** SeqNo: **1683991**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.6	1.0	10.00	0	96.4	78	124				
1,1,1-Trichloroethane	11	1.0	10.00	0	106	74	131				
1,1,2,2-Tetrachloroethane	9.8	1.0	10.00	0	97.6	71	121				
1,1,2-Trichloroethane	11	1.0	10.00	0	106	80	119				
1,1-Dichloroethane	11	2.0	10.00	0	105	77	125				
1,1-Dichloroethene	10	1.0	10.00	0	105	71	131				
1,2,3-Trichloropropane	8.5	1.0	10.00	0	85.4	73	122				
1,2-Dibromo-3-chloropropane	5.9	5.0	10.00	0	58.8	62	128				Q
1,2-Dibromoethane	9.9	1.0	10.00	0	99.2	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	108	73	128				
1,2-Dichloropropane	11	1.0	10.00	0	109	78	122				
2-Butanone [MEK]	12	10	10.00	3.140	87.2	56	143				
2-Hexanone	10	2.0	10.00	0	99.8	57	139				Y
Acetone	13	10	10.00	14.52	-10.6	39	160				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86781

Sample ID:	1606387-005AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/20/2016	RunNo:	86781
Client ID:	H12-SB01-GWMS1	Batch ID:	R86781	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683991

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	10	1.0	10.00	0	102	79	120				
Bromodichloromethane	12	1.0	10.00	0	117	79	125				
Bromoform	7.3	1.0	10.00	0	72.9	66	130				
Carbon disulfide	10	1.0	10.00	0	104	64	133				
Carbon tetrachloride	10	1.0	10.00	0	104	72	136				
Chlorobenzene	9.8	1.0	10.00	0	97.8	82	118				
Chlorodibromomethane	10	1.0	10.00	0	103	74	126				Y
Chloroethane	13	2.0	10.00	0	131	60	138				
Chloroform	10	1.0	10.00	0	104	79	124				
Chloromethane	8.4	1.0	10.00	0	84.3	50	139				
cis-1,2-Dichloroethene	10	1.0	10.00	0	101	78	123				
cis-1,3-Dichloropropene	9.0	1.0	10.00	0	90.4	75	124				
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	105	32	152				
Ethylbenzene	10	1.0	10.00	0	105	79	121				
Methylene chloride	12	5.0	10.00	0	119	74	124				
Styrene	10	1.0	10.00	0	104	78	123				
Tetrachloroethene	11	1.0	10.00	0	112	74	129				
Toluene	12	1.0	10.00	0	119	80	121				
trans-1,2-Dichloroethene	11	1.0	10.00	0	114	75	124				
trans-1,3-Dichloropropene	9.6	1.0	10.00	0	96.0	73	127				
Trichloroethene	11	1.0	10.00	0	110	79	123				
Trichlorofluoromethane [Freon-11]	12	1.0	10.00	0	121	65	141				
Vinyl acetate	11	5.0	10.00	0	106	54	146				
Vinyl chloride	12	1.0	10.00	0	116	58	137				
Xylene (total)	31	3.0	30.00	0	104	79	121				
Surr: 4-Bromofluorobenzene	60		60.00		99.5	85	114				
Surr: Dibromofluoromethane	56		60.00		93.3	80	119				
Surr: Toluene-d8	61		60.00		101	89	112				

RTI Laboratories - Definitions and Acronyms

WO#: 1606387

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606387

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	060106-03
Address	Point of Contact / Phone No.	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / State / Zip Code	Site Contact / Phone No.	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information / Other Sample Information / Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
Field QC	–	–	TB	1	TB-GW-060916-01	06/09/16	0900	WQ	3	016	3										1
WDS-SB23	–	–	N	1	WDS-SB23-GW		1400	WG	3		3			4			2	1			2
WDS-SB23	–	–	FD	1	WDS-SB23-GWDUP		1400	WG	3		3			4			2	1			3
WDS-SB24	–	–	N	1	WDS-SB24-GW		1515	WG	10		3			4			2	1			4
H12-SB01	–	–	MS	1	H12-SB01-GWMS		1015	WG	3		3			4			2	1			5
H12-SB01	–	–	SD	1	H12-SB01-GWMSD		1015	WG	3		3			4			2	1			5
H12-SB01	–	–	N	1	H12-SB01-GW		1015	WG	3		3			4			2	1			5

1. Relinquished By / Company: Amanda Martin – AECOM	Date: 6/10/16	Time: 1400	1. Received By / Company: Transfer to FedEx	Date: 6/10/16	Time: 1400
2. Relinquished By / Company	Date	Time	2. Received By / Company: Client Cab	Date: 6/11/16	Time: 10:30
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No.: 8103 0202 5902

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler ID: Socrates
Second ID: #016
Temp: 0.3 TB

1606387

Chain of Custody

original COC

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061016-03
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
Field QC	–	–	TB	1	TB-GW-060916-01	06/09/16	0900	WQ	3	01b	3											
WDS-SB23	–	–	N	1	WDS-SB23-GW		1400	WG	3		3											
WDS-SB23	–	–	FD	1	WDS-SB23-GWDUP		1400	WG	3		3											
WDS-SB24	–	–	N	1	WDS-SB24-GW		1515	WG	10		3			4			2	1				
H12-SB01	–	–	MS	1	H12-SB01-GWMS		1015	WG	3		3											
H12-SB01	–	–	SD	1	H12-SB01-GWMSD		1015	WG	3		3											
H12-SB01	–	–	N	1	H12-SB01-GW		1015	WG	3		3											

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/10/16	Time: 1400	1. Received By / Company: Transfer to FedEx	Date: 6/10/16	Time: 1400
2. Relinquished By / Company	Date	Time	2. Received By / Company: Chris Cole	Date: 6/11/16	Time: 10:30
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No.: 8103 0202 5902

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler ID: Socrates
Second ID: #01b
Temp: 0.3 TB

FedEx Express Package US Airbill

FedEx Tracking Number 8103 0202 5902

Form ID No. 0215

cooler #016 MURR
COC #dd1016-03

1 From

Date 06/10/16

Sender's Name Amanda Martin Phone

Company

Address

Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Address
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept./Floor/Suite/Room

Address
Use this line for the HOLD location address or for continuation of your shipping address.

City State ZIP

Hold Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8103 0202 5902

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

QUICENT

No Signature Required — Package may be left without obtaining a signature for delivery.
Direct Signature — Someone at recipient's address may sign for delivery.
Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

No
Yes — As per attached Shipper's Declaration.
Yes — Shipper's Declaration not required.
Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide.
Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check
Obtain recip. Acct. No.

Total Packages [redacted] Total Weight [redacted] lbs. Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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fedex.com 1.800.GoFedEx 1.800.463.3339

FedEx TRK# 0215 8103 0202 5902

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150

X0 CFAA

FID 5079582 10JUN16 WSHA 539C2/30BD/6A08

CUSTODY SEAL
DATE 06/10/16
SIGNATURE

FedEx Saturday Delivery

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

1606387

Chain of Custody

Original COC

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/10/16-06
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
H12-SB01	—	—	N	1	H12-SB01-GW	06/09/16	1015	WG	2	019				2			2	1				H12-SB01-GW: 2 containers in Cooler #019
H12-SB01	—	—	SD	1	H12-SB01-GWMSD	↓	1015	WG	7	019				4			2	1				additional H12-SB01-GW containers in coolers # 017 and 018

Amanda Martin

1. Relinquished By / Company: Amanda Martin	Date: 6/10/16	Time: 1400	1. Received By / Company: Transfer to FedEx	Date: 6/10/16	Time: 1400
2. Relinquished By / Company	Date	Time	2. Received By / Company: Chris Otis	Date: 6/11/16	Time: 10:30
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No.: 8103 0202 5935

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler ID: J-698
Second ID: #019
Temp: 0.8 TB

00135

00152

Fed Express Package US Airbill

FedEx Tracking Number 8103 0202 5935

Form ID No. 0215

1 From

Date 06/10/16

Sender's Name Amanda Martin Phone 434 [illegible]

Company [illegible] GCP

Address 3101 WILSON BLVD STE 700

City ARLINGTON State VA ZIP 22201-4446

Dept./Floor/Suite/Room

2 Your Internal Billing Reference [illegible]

3 To

Recipient's Name CATHY GRIFFIN Phone 734 [illegible]

Company [illegible] LABORATORIES - ENV SCI DIV

Address 1663 GLENDALE STREET

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City LIVONIA State MI ZIP 48150

Hold Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0123659941

8103 0202 5935

fedex.com 1.800.GoFedEx 1.800.463.3339

[illegible] 0179 MURO

Form ID No. 0215 [illegible]

4 Express Package Service * To most locations. Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [ ] Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

- [x] Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver. [illegible]
- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Enter FedEx Acct. No. or Credit Card No. below.

Total Packages [illegible] Total Weight [illegible] lbs.

Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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fedex.com 1.800.GoFedEx 1.800.463.3339

FID 5079582 10JUN16 WSHA 5392/308D/6A08

CUSTODY SEAL

DATE 06/10/16

SIGNATURE [illegible]

QEC Quality Environmental Containers 800-255-3950 • 304-255-3900

FedEx Saturday Delivery

48150 MI-US DTW

PRIORITY OVERNIGHT 12:00P

XO CFAA

0215 8103 0202 5935

1606387

Chain of Custody

Original COC

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	
WDS-SB23	-	-	FD	1	WDS-SB23-GWDUP	06/09/16	1400	WG	7	018				4			2	1			
H12-SB01	-	-	N	1	H12-SB01-GW	06/09/16	1015	WG	2	018				2							

Chain of Custody: 060106-05
Batch May16
Comment: more H12-SB01-GW in coolers #017 & #018

Amanda Martin

1. Relinquished By / Company: Amanda Martin AECOM	Date: 06/10/16	Time: 1400	1. Received By / Company: Transfer to FedEx	Date: 06/10/16	Time: 1400
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date: 6/11/16	Time: 10:30
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No.: 8103 0202 5924

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler ID: FTC#4
Second ID: #018
Temp: 1.6 TB

00134

00152

FedEx Express Package US Airbill

FedEx Tracking Number 8103 0202 5924

Form ID No. 0215

COC # 060176-05
Cooler # 018

1 From

Date 06/10/16

Sender's Name [redacted] Phone [redacted]

Company [redacted]

Address [redacted]

Dept./Floor/Suite/Room

City [redacted] State VA ZIP [redacted]

2 Your Internal Billing Reference

3 To

Recipient's Name [redacted] Phone [redacted]

Company [redacted]

Address [redacted] STREET

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City [redacted] State [redacted] ZIP [redacted]

Hold Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

012659941

8103 0202 592[illegible]

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

[ ] FedEx Envelope* [ ] FedEx Pak* [ ] FedEx Box [ ] FedEx Tube [ ] Other

6 Special Handling and Delivery Signature Options Fees may apply.

- [x] Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery.
- [ ] Adult signature required — Someone at least 21 years of age at recipient's address may sign for delivery.

06.11 5924 A 12:00 1

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

[ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No. [ ]

- [x] Sender — Acct. No. in Section will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages ____ Total Weight ____ lbs.

Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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FedEx®

RT 649 ST 11

CUSTODY SEAL

DATE 06/10/16

SIGNATURE [signature]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Phone Number | Company | Dept./Floor/Suite/Room | Street Address | City | State

FID 607958Z 10JUN16 WSHA 5392/308D/6A08

X0 CFAA

4815Ø
MI-US
DTW

1606387

Chain of Custody

Original COC

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061016-04
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB23	–	–	N	1	WDS-SB23-GW	06/09/16	1400	WG	7	017				4			2	1				
H12-SB01	–	–	N	1	~~WDS-SB6~~ H12-SB01-GW	06/09/16	1015	WG	3	017							2	1				ID: H12-SB01-GW
																						additional H12-SB01-GW samples in coolers #018 and #019

	Date	Time		Date	Time
1. Relinquished By / Company: Amanda Martin	06/10/16	1400	1. Received By / Company: Transfer to FedEx	06/10/16	1400
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date 6/11/16	Time 10:30
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5913

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler ID: Big Nasty
Second In: #017
Temp: 0.7 °C

Fed Express

Package US Airbill

FedEx Tracking Number 8103 0202 5913

Form ID No. 0215

1 From

Date 6/10/16

Sender's Name Amanda Martin Phone

Company ARCADIS BCP

Address 3101 WILCOX BLVD SUITE 900

Dept./Floor/Suite/Room

City ARLINGTON State VA ZIP 22201

2 Your Internal Billing Reference

3 To

Recipient's Name KATHY GRIFFIN Phone

Company MTI LABORATORIES - ENV SCI DIV

Address 1420 GLENDALE STREET

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City ROMULA State MI ZIP 48150

Hold Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

FID 6079582 10JUN16 WSHA 5395C/30BD/6A08

4 Express Package Service * To most locations. Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

URGENT

- [ ] Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [X] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages ____ Total Weight ____ lbs.

Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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FedEx®

0123456924

CUSTODY SEAL

DATE 6/10/16

SIGNATURE

QEC

Quality Environmental Cont

800-255-3950 • 304-255-3

SATURDAY 12:00P PRIORITY OVERNIGHT

48150 MI-US DTW

TRK# 8103 0202 5913 0215

FedEx

X0 CFAA

1606367

Chain of Custody

Original COC

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	060116-07
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
H12-SB01	—	—	N	1	H12-SB01-GWMS	06/09/16	1015	WG	7	020				4			2	1				

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
Amanda Martin - AECOM	06/10/16	1400	Transfer to FedEx	6/10/16	1400
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
				6/11/16	10:50
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8105 0202 5968

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler ID: A569
Second ID: #020
Temp: 0.2 TB

Fed Express

Package US Airbill

FedEx Tracking Number 8103 0202 5968

Form ID No. 0215

COC # 06/10/16-07
Cooler H2O

1 From

Date 06/10/16

Sender's Name [redacted] Phone

Company

Address

Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City State ZIP

Hold Weekday
FedEx location address REQUIRED. **NOT available for** FedEx First Overnight.

Hold Saturday
FedEx location address REQUIRED. **Available ONLY for** FedEx Priority Overnight and FedEx 2Day to select locations.

8103 0202 5968

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

URGENT

Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required — Package may be left without obtaining a signature for delivery.

Direct Signature — Someone at recipient's address may sign for delivery.

Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

No Yes — As per attached Shipper's Declaration. Yes — Shipper's Declaration not required. Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check

[redacted]

Total Packages Total Weight lbs. Credit Card Auth.

611

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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FedEx Saturday Delivery

06/10/16

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

FID 5079582 10JUN16 WSHA 5392/30BD/6A08

4815

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CFAA

FedEx TRK# 0215 8103 0202 5968

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Monday, August 29, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606389

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606389-001A	BG01-SS01-01		6/9/2016 11:05 AM	6/11/2016 10:30 AM	Soil
1606389-001B	BG01-SS01-01		6/9/2016 11:05 AM	6/11/2016 10:30 AM	Soil
1606389-002A	BG01-SB01-05		6/9/2016 11:10 AM	6/11/2016 10:30 AM	Soil
1606389-002B	BG01-SB01-05		6/9/2016 11:10 AM	6/11/2016 10:30 AM	Soil
1606389-003A	BG01-SB01-06		6/9/2016 11:20 AM	6/11/2016 10:30 AM	Soil
1606389-003B	BG01-SB01-06		6/9/2016 11:20 AM	6/11/2016 10:30 AM	Soil
1606389-004A	BG01-SS02-01		6/9/2016 9:40 AM	6/11/2016 10:30 AM	Soil
1606389-004B	BG01-SS02-01		6/9/2016 9:40 AM	6/11/2016 10:30 AM	Soil
1606389-005A	BG01-SB02-05		6/9/2016 9:45 AM	6/11/2016 10:30 AM	Soil
1606389-005B	BG01-SB02-05		6/9/2016 9:45 AM	6/11/2016 10:30 AM	Soil
1606389-006A	BG01-SB02-06		6/9/2016 9:50 AM	6/11/2016 10:30 AM	Soil
1606389-006B	BG01-SB02-06		6/9/2016 9:50 AM	6/11/2016 10:30 AM	Soil
1606389-007A	BG01-SS03-01		6/9/2016 9:15 AM	6/11/2016 10:30 AM	Soil
1606389-007B	BG01-SS03-01		6/9/2016 9:15 AM	6/11/2016 10:30 AM	Soil
1606389-008A	BG01-SB03-05		6/9/2016 9:20 AM	6/11/2016 10:30 AM	Soil
1606389-008B	BG01-SB03-05		6/9/2016 9:20 AM	6/11/2016 10:30 AM	Soil
1606389-009A	BG01-SB03-08		6/9/2016 9:25 AM	6/11/2016 10:30 AM	Soil
1606389-009B	BG01-SB03-08		6/9/2016 9:25 AM	6/11/2016 10:30 AM	Soil
1606389-010A	BG01-SS04-01		6/9/2016 11:40 AM	6/11/2016 10:30 AM	Soil
1606389-010B	BG01-SS04-01		6/9/2016 11:40 AM	6/11/2016 10:30 AM	Soil
1606389-011A	BG01-SB04-04		6/9/2016 11:50 AM	6/11/2016 10:30 AM	Soil
1606389-011B	BG01-SB04-04		6/9/2016 11:50 AM	6/11/2016 10:30 AM	Soil
1606389-012A	BG01-SB04-05		6/9/2016 11:45 AM	6/11/2016 10:30 AM	Soil
1606389-012B	BG01-SB04-05		6/9/2016 11:45 AM	6/11/2016 10:30 AM	Soil
1606389-013A	BG01-SB04-05 DUP		6/9/2016 11:45 AM	6/11/2016 10:30 AM	Soil
1606389-013B	BG01-SB04-05 DUP		6/9/2016 11:45 AM	6/11/2016 10:30 AM	Soil
1606389-014A	BG01-SS05-01		6/9/2016 10:50 AM	6/11/2016 10:30 AM	Soil
1606389-014B	BG01-SS05-01		6/9/2016 10:50 AM	6/11/2016 10:30 AM	Soil
1606389-015A	BG01-SS06-01		6/9/2016 12:55 PM	6/11/2016 10:30 AM	Soil
1606389-015B	BG01-SS06-01		6/9/2016 12:55 PM	6/11/2016 10:30 AM	Soil
1606389-016A	BG01-SS07-01		6/9/2016 12:25 PM	6/11/2016 10:30 AM	Soil
1606389-016B	BG01-SS07-01		6/9/2016 12:25 PM	6/11/2016 10:30 AM	Soil
1606389-017A	BG01-SS07-01 DUP		6/9/2016 12:25 PM	6/11/2016 10:30 AM	Soil
1606389-017B	BG01-SS07-01 DUP		6/9/2016 12:25 PM	6/11/2016 10:30 AM	Soil
1606389-018A	BG01-SS08-01		6/9/2016 12:10 PM	6/11/2016 10:30 AM	Soil
1606389-018B	BG01-SS08-01		6/9/2016 12:10 PM	6/11/2016 10:30 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Percent Moisture - ASTM-D2216
Metals, ICP/OES - 6010C
Metals, ICP/MS - 6020A
Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_6010S, Analytical Run No 87363, Batch ID 40157:
Sample 1606389-005BMS: Recoveries for several analytes exceeded control limits.
Sample 1606389-005BMSD: Recoveries for several analytes exceeded control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87363, Batch ID 40157:
Sample 1606392-005B MS: Spike recoveries for Al, Fe and Mn were outside the control limits.
Sample 1606392-005B MSD: Spike recoveries for Al, Ca, Fe, Mg and Mn were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87679, Batch ID 40172:
Sample 1606389-014A: Sample required multiple dilutions. The fourth dilution was performed past the recommended hold time.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87615, Batch ID 40178:
Sample 1606392-005A MS: Spike recovery for Benz(a)anthracene was outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87615, Batch ID 87615:
Sample CCVE SIM 062716S7, Batch ID R87615 : Ending CCV results for Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Dibenz (a,h)anthracene and Indeno(1,2,3-cd)pyrene exceeded the 50% criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87532, Batch ID 87532:
Sample CCV SIM 062616S7, Batch ID R87532 : CCV results for Benzo(g,h,i)perylene exceeded the 20% criteria.
Sample CCVE SIM 062616S7, Batch ID R87532 : Ending CCV results for Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenz(a,h) anthracene, Indeno(1,2,3-cd)pyrene exceeded the 50% criteria.

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 11:05:00 AM
Project: Camp Hero
Lab ID: 1606389-001 **Matrix:** Soil
Client Sample ID: BG01-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,500		55	150	370	mg/Kg-dry	100	7/13/2016 2:38 PM
Antimony	1.4		0.28	0.37	0.74	mg/Kg-dry	1	7/13/2016 12:56 PM
Arsenic	0.88	J	0.53	0.74	1.5	mg/Kg-dry	1	7/13/2016 12:56 PM
Barium	13		0.22	3.7	7.4	mg/Kg-dry	1	7/13/2016 12:56 PM
Beryllium	0.25		0.0093	0.037	0.18	mg/Kg-dry	1	7/13/2016 12:56 PM
Cadmium	0.20		0.024	0.037	0.18	mg/Kg-dry	1	7/13/2016 12:56 PM
Calcium	240		2.2	7.4	37	mg/Kg-dry	1	7/13/2016 12:56 PM
Chromium	7.6		0.061	0.29	0.37	mg/Kg-dry	1	7/13/2016 12:56 PM
Cobalt	1.4		0.066	0.18	0.74	mg/Kg-dry	1	7/13/2016 12:56 PM
Copper	12		0.31	0.74	3.7	mg/Kg-dry	1	7/13/2016 12:56 PM
Iron	5,000		23	37	110	mg/Kg-dry	10	7/13/2016 1:37 PM
Lead	5.5		0.46	0.74	3.7	mg/Kg-dry	1	7/13/2016 12:56 PM
Magnesium	450		2.6	3.7	37	mg/Kg-dry	1	7/13/2016 12:56 PM
Manganese	37		0.14	0.18	0.74	mg/Kg-dry	1	7/13/2016 12:56 PM
Nickel	4.7		0.21	0.74	3.7	mg/Kg-dry	1	7/13/2016 12:56 PM
Potassium	270		1.7	7.4	15	mg/Kg-dry	1	7/13/2016 12:56 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/13/2016 12:56 PM
Silver	0.066	J	0.060	0.18	0.74	mg/Kg-dry	1	7/13/2016 12:56 PM
Sodium	51		1.5	3.7	37	mg/Kg-dry	1	7/13/2016 12:56 PM
Vanadium	9.6		0.093	0.74	1.8	mg/Kg-dry	1	7/13/2016 12:56 PM
Zinc	17		0.28	0.37	3.7	mg/Kg-dry	1	7/13/2016 12:56 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.066	JG	0.035	0.036	0.14	mg/Kg-dry	10	7/6/2016 6:12 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
2-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Benz(a)anthracene	0.0014		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Benzo(a)pyrene	0.00094		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Benzo(b)fluoranthene	0.0020		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Benzo(g,h,i)perylene	0.00079	YQ	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Benzo(k)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Chrysene	0.00095		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Fluoranthene	0.0026		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Indeno(1,2,3-cd)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Naphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Phenanthrene	0.0020		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM
Pyrene	0.0024		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 10:21 AM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:05:00 AM
Project:	Camp Hero		
Lab ID:	1606389-001	**Matrix:**	Soil
Client Sample ID:	BG01-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	81.3			46-115		%Rec	1	6/26/2016 10:21 AM
Surr: Nitrobenzene-d5	89.0			44-125		%Rec	1	6/26/2016 10:21 AM
Surr: Terphenyl-d14	107			58-133		%Rec	1	6/26/2016 10:21 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 11:10:00 AM
Project: Camp Hero
Lab ID: 1606389-002 **Matrix:** Soil
Client Sample ID: BG01-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,800		57	150	380	mg/Kg-dry	100	7/13/2016 2:39 PM
Antimony	1.5		0.28	0.38	0.76	mg/Kg-dry	1	7/13/2016 12:58 PM
Arsenic	1.1	J	0.55	0.76	1.5	mg/Kg-dry	1	7/13/2016 12:58 PM
Barium	17		0.23	3.8	7.6	mg/Kg-dry	1	7/13/2016 12:58 PM
Beryllium	0.058	J	0.0096	0.038	0.19	mg/Kg-dry	1	7/13/2016 12:58 PM
Cadmium	0.038	U	0.025	0.038	0.19	mg/Kg-dry	1	7/13/2016 12:58 PM
Calcium	300		2.2	7.6	38	mg/Kg-dry	1	7/13/2016 12:58 PM
Chromium	8.2		0.062	0.30	0.38	mg/Kg-dry	1	7/13/2016 12:58 PM
Cobalt	1.5		0.068	0.19	0.76	mg/Kg-dry	1	7/13/2016 12:58 PM
Copper	13		0.31	0.76	3.8	mg/Kg-dry	1	7/13/2016 12:58 PM
Iron	4,300		24	38	110	mg/Kg-dry	10	7/13/2016 1:38 PM
Lead	2.1	J	0.47	0.76	3.8	mg/Kg-dry	1	7/13/2016 12:58 PM
Magnesium	850		2.6	3.8	38	mg/Kg-dry	1	7/13/2016 12:58 PM
Manganese	49		0.14	0.19	0.76	mg/Kg-dry	1	7/13/2016 12:58 PM
Nickel	4.0		0.21	0.76	3.8	mg/Kg-dry	1	7/13/2016 12:58 PM
Potassium	570		1.8	7.6	15	mg/Kg-dry	1	7/13/2016 12:58 PM
Selenium	1.1	U	0.88	1.1	1.5	mg/Kg-dry	1	7/13/2016 12:58 PM
Silver	0.19	U	0.062	0.19	0.76	mg/Kg-dry	1	7/13/2016 12:58 PM
Sodium	47		1.5	3.8	38	mg/Kg-dry	1	7/13/2016 12:58 PM
Vanadium	13		0.096	0.76	1.9	mg/Kg-dry	1	7/13/2016 12:58 PM
Zinc	8.2		0.29	0.38	3.8	mg/Kg-dry	1	7/13/2016 12:58 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.096	JG	0.036	0.037	0.15	mg/Kg-dry	10	7/6/2016 6:13 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
2-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Acenaphthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Acenaphthylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Benz(a)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Benzo(a)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Benzo(b)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Benzo(g,h,i)perylene	0.00078	UYQ	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Benzo(k)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Chrysene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Dibenzo(a,h)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Fluorene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Indeno(1,2,3-cd)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Naphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Phenanthrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:10:00 AM
Project:	Camp Hero		
Lab ID:	1606389-002	**Matrix:**	Soil
Client Sample ID:	BG01-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/26/2016 10:50 AM
Surr: 2-Fluorobiphenyl	95.7			46-115		%Rec	1	6/26/2016 10:50 AM
Surr: Nitrobenzene-d5	108			44-125		%Rec	1	6/26/2016 10:50 AM
Surr: Terphenyl-d14	116			58-133		%Rec	1	6/26/2016 10:50 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:20:00 AM
Project:	Camp Hero		
Lab ID:	1606389-003	**Matrix:**	Soil
Client Sample ID:	BG01-SB01-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,400		58	150	390	mg/Kg-dry	100	7/13/2016 2:47 PM
Antimony	2.1		0.29	0.39	0.77	mg/Kg-dry	1	7/13/2016 1:06 PM
Arsenic	2.0		0.56	0.77	1.5	mg/Kg-dry	1	7/13/2016 1:06 PM
Barium	22		0.23	3.9	7.7	mg/Kg-dry	1	7/13/2016 1:06 PM
Beryllium	0.060	J	0.0098	0.039	0.19	mg/Kg-dry	1	7/13/2016 1:06 PM
Cadmium	0.039	U	0.025	0.039	0.19	mg/Kg-dry	1	7/13/2016 1:06 PM
Calcium	380		2.3	7.7	39	mg/Kg-dry	1	7/13/2016 1:06 PM
Chromium	11		0.063	0.31	0.39	mg/Kg-dry	1	7/13/2016 1:06 PM
Cobalt	2.1		0.069	0.19	0.77	mg/Kg-dry	1	7/13/2016 1:06 PM
Copper	17		0.32	0.77	3.9	mg/Kg-dry	1	7/13/2016 1:06 PM
Iron	5,600		24	39	120	mg/Kg-dry	10	7/13/2016 1:49 PM
Lead	2.4	J	0.48	0.77	3.9	mg/Kg-dry	1	7/13/2016 1:06 PM
Magnesium	1,200		2.7	3.9	39	mg/Kg-dry	1	7/13/2016 1:06 PM
Manganese	67		0.14	0.19	0.77	mg/Kg-dry	1	7/13/2016 1:06 PM
Nickel	5.9		0.22	0.77	3.9	mg/Kg-dry	1	7/13/2016 1:06 PM
Potassium	760		1.8	7.7	15	mg/Kg-dry	1	7/13/2016 1:06 PM
Selenium	1.2	U	0.90	1.2	1.5	mg/Kg-dry	1	7/13/2016 1:06 PM
Silver	0.19	U	0.063	0.19	0.77	mg/Kg-dry	1	7/13/2016 1:06 PM
Sodium	65		1.6	3.9	39	mg/Kg-dry	1	7/13/2016 1:06 PM
Vanadium	16		0.098	0.77	1.9	mg/Kg-dry	1	7/13/2016 1:06 PM
Zinc	12		0.30	0.39	3.9	mg/Kg-dry	1	7/13/2016 1:06 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.081	JG	0.035	0.037	0.15	mg/Kg-dry	10	7/6/2016 6:14 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
2-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Benz(a)anthracene	0.0011		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Benzo(a)pyrene	0.00092		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Benzo(b)fluoranthene	0.0016		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Benzo(g,h,i)perylene	0.00077	UYQ	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Benzo(k)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Chrysene	0.0010		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Fluoranthene	0.0025		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Naphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Phenanthrene	0.0017		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:20:00 AM
Project:	Camp Hero		
Lab ID:	1606389-003	**Matrix:**	Soil
Client Sample ID:	BG01-SB01-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.0023		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 11:18 AM
Surr: 2-Fluorobiphenyl	79.7			46-115		%Rec	1	6/26/2016 11:18 AM
Surr: Nitrobenzene-d5	87.8			44-125		%Rec	1	6/26/2016 11:18 AM
Surr: Terphenyl-d14	105			58-133		%Rec	1	6/26/2016 11:18 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606389-004	**Matrix:**	Soil
Client Sample ID:	BG01-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,600		55	150	360	mg/Kg-dry	100	7/13/2016 2:48 PM
Antimony	1.1		0.27	0.36	0.73	mg/Kg-dry	1	7/13/2016 1:08 PM
Arsenic	1.4	J	0.53	0.73	1.5	mg/Kg-dry	1	7/13/2016 1:08 PM
Barium	16		0.22	3.6	7.3	mg/Kg-dry	1	7/13/2016 1:08 PM
Beryllium	0.055	J	0.0092	0.036	0.18	mg/Kg-dry	1	7/13/2016 1:08 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/13/2016 1:08 PM
Calcium	280		2.1	7.3	36	mg/Kg-dry	1	7/13/2016 1:08 PM
Chromium	7.6		0.060	0.29	0.36	mg/Kg-dry	1	7/13/2016 1:08 PM
Cobalt	1.0		0.066	0.18	0.73	mg/Kg-dry	1	7/13/2016 1:08 PM
Copper	12		0.30	0.73	3.6	mg/Kg-dry	1	7/13/2016 1:08 PM
Iron	5,000		23	36	110	mg/Kg-dry	10	7/13/2016 1:50 PM
Lead	3.1	J	0.45	0.73	3.6	mg/Kg-dry	1	7/13/2016 1:08 PM
Magnesium	550		2.6	3.6	36	mg/Kg-dry	1	7/13/2016 1:08 PM
Manganese	49		0.13	0.18	0.73	mg/Kg-dry	1	7/13/2016 1:08 PM
Nickel	3.8		0.21	0.73	3.6	mg/Kg-dry	1	7/13/2016 1:08 PM
Potassium	270		1.7	7.3	15	mg/Kg-dry	1	7/13/2016 1:08 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/13/2016 1:08 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/13/2016 1:08 PM
Sodium	45		1.5	3.6	36	mg/Kg-dry	1	7/13/2016 1:08 PM
Vanadium	10		0.093	0.73	1.8	mg/Kg-dry	1	7/13/2016 1:08 PM
Zinc	13		0.28	0.36	3.6	mg/Kg-dry	1	7/13/2016 1:08 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.062	JG	0.036	0.037	0.15	mg/Kg-dry	10	7/6/2016 6:15 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
2-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Acenaphthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Acenaphthylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Anthracene	0.00076		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Benz(a)anthracene	0.0048		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Benzo(a)pyrene	0.0044		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Benzo(b)fluoranthene	0.0083		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Benzo(g,h,i)perylene	0.0032	YQ	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Benzo(k)fluoranthene	0.0021		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Chrysene	0.0039		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Fluoranthene	0.0099		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Fluorene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Indeno(1,2,3-cd)pyrene	0.0027		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Naphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Phenanthrene	0.0052		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM
Pyrene	0.0093		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 11:47 AM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606389-004	**Matrix:**	Soil
Client Sample ID:	BG01-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	74.1			46-115		%Rec	1	6/26/2016 11:47 AM
Surr: Nitrobenzene-d5	82.6			44-125		%Rec	1	6/26/2016 11:47 AM
Surr: Terphenyl-d14	92.4			58-133		%Rec	1	6/26/2016 11:47 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:45:00 AM
Project:	Camp Hero		
Lab ID:	1606389-005	**Matrix:**	Soil
Client Sample ID:	BG01-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals Metals, ICP/OES			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	10,000		55	150	370	mg/Kg-dry	100	7/13/2016 2:28 PM
Antimony	2.3		0.28	0.37	0.73	mg/Kg-dry	1	7/13/2016 12:29 PM
Arsenic	1.7		0.53	0.73	1.5	mg/Kg-dry	1	7/13/2016 12:29 PM
Barium	25	X	0.22	3.7	7.3	mg/Kg-dry	1	7/13/2016 12:29 PM
Beryllium	0.023	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/13/2016 12:29 PM
Cadmium	0.037	U	0.024	0.037	0.18	mg/Kg-dry	1	7/13/2016 12:29 PM
Calcium	530	X	2.2	7.3	37	mg/Kg-dry	1	7/13/2016 12:29 PM
Chromium	15	X	0.060	0.29	0.37	mg/Kg-dry	1	7/13/2016 12:29 PM
Cobalt	2.3		0.066	0.18	0.73	mg/Kg-dry	1	7/13/2016 12:29 PM
Copper	21		0.30	0.73	3.7	mg/Kg-dry	1	7/13/2016 12:29 PM
Iron	7,000		23	37	110	mg/Kg-dry	10	7/13/2016 1:27 PM
Lead	3.3	J	0.46	0.73	3.7	mg/Kg-dry	1	7/13/2016 12:29 PM
Magnesium	1,700	X	2.6	3.7	37	mg/Kg-dry	1	7/13/2016 12:29 PM
Manganese	100	X	0.14	0.18	0.73	mg/Kg-dry	1	7/13/2016 12:29 PM
Nickel	6.8		0.21	0.73	3.7	mg/Kg-dry	1	7/13/2016 12:29 PM
Potassium	960		1.7	7.3	15	mg/Kg-dry	1	7/13/2016 12:29 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/13/2016 12:29 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/13/2016 12:29 PM
Sodium	67		1.5	3.7	37	mg/Kg-dry	1	7/13/2016 12:29 PM
Vanadium	19	X	0.093	0.73	1.8	mg/Kg-dry	1	7/13/2016 12:29 PM
Zinc	16	X	0.28	0.37	3.7	mg/Kg-dry	1	7/13/2016 12:29 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.070	JG	0.035	0.036	0.14	mg/Kg-dry	10	7/6/2016 5:46 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
2-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Acenaphthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Acenaphthylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Benz(a)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Benzo(a)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Benzo(b)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Benzo(g,h,i)perylene	0.00073	UYQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Benzo(k)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Chrysene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Dibenzo(a,h)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Fluorene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Indeno(1,2,3-cd)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Naphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Phenanthrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:45:00 AM
Project:	Camp Hero		
Lab ID:	1606389-005	**Matrix:**	Soil
Client Sample ID:	BG01-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 12:16 PM
Surr: 2-Fluorobiphenyl	91.3			46-115		%Rec	1	6/26/2016 12:16 PM
Surr: Nitrobenzene-d5	99.2			44-125		%Rec	1	6/26/2016 12:16 PM
Surr: Terphenyl-d14	115			58-133		%Rec	1	6/26/2016 12:16 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 9:50:00 AM
Project: Camp Hero
Lab ID: 1606389-006 **Matrix:** Soil
Client Sample ID: BG01-SB02-06

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	7,600		55	150	360	mg/Kg-dry	100	7/13/2016 2:50 PM
Antimony	1.8		0.27	0.36	0.73	mg/Kg-dry	1	7/13/2016 1:09 PM
Arsenic	0.75	J	0.53	0.73	1.5	mg/Kg-dry	1	7/13/2016 1:09 PM
Barium	17		0.22	3.6	7.3	mg/Kg-dry	1	7/13/2016 1:09 PM
Beryllium	0.036	U	0.0092	0.036	0.18	mg/Kg-dry	1	7/13/2016 1:09 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/13/2016 1:09 PM
Calcium	540		2.1	7.3	36	mg/Kg-dry	1	7/13/2016 1:09 PM
Chromium	11		0.060	0.29	0.36	mg/Kg-dry	1	7/13/2016 1:09 PM
Cobalt	1.8		0.065	0.18	0.73	mg/Kg-dry	1	7/13/2016 1:09 PM
Copper	17		0.30	0.73	3.6	mg/Kg-dry	1	7/13/2016 1:09 PM
Iron	5,600		23	36	110	mg/Kg-dry	10	7/13/2016 1:52 PM
Lead	2.5	J	0.45	0.73	3.6	mg/Kg-dry	1	7/13/2016 1:09 PM
Magnesium	1,400		2.5	3.6	36	mg/Kg-dry	1	7/13/2016 1:09 PM
Manganese	98		0.13	0.18	0.73	mg/Kg-dry	1	7/13/2016 1:09 PM
Nickel	5.2		0.21	0.73	3.6	mg/Kg-dry	1	7/13/2016 1:09 PM
Potassium	770		1.7	7.3	15	mg/Kg-dry	1	7/13/2016 1:09 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/13/2016 1:09 PM
Silver	0.18	U	0.059	0.18	0.73	mg/Kg-dry	1	7/13/2016 1:09 PM
Sodium	67		1.5	3.6	36	mg/Kg-dry	1	7/13/2016 1:09 PM
Vanadium	13		0.092	0.73	1.8	mg/Kg-dry	1	7/13/2016 1:09 PM
Zinc	13		0.28	0.36	3.6	mg/Kg-dry	1	7/13/2016 1:09 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.060	JG	0.038	0.039	0.16	mg/Kg-dry	10	7/6/2016 6:16 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
2-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Anthracene	0.00081		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Benz(a)anthracene	0.0026		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Benzo(a)pyrene	0.0017		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Benzo(b)fluoranthene	0.0029		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Benzo(g,h,i)perylene	0.0013	YQ	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Benzo(k)fluoranthene	0.0012		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Chrysene	0.0019		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Fluoranthene	0.0050		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Indeno(1,2,3-cd)pyrene	0.0011		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Naphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Phenanthrene	0.0038		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM
Pyrene	0.0045		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 1:44 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:50:00 AM
Project:	Camp Hero		
Lab ID:	1606389-006	**Matrix:**	Soil
Client Sample ID:	BG01-SB02-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	93.3			46-115		%Rec	1	6/26/2016 1:44 PM
Surr: Nitrobenzene-d5	106			44-125		%Rec	1	6/26/2016 1:44 PM
Surr: Terphenyl-d14	111			58-133		%Rec	1	6/26/2016 1:44 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606389-007	**Matrix:**	Soil
Client Sample ID:	BG01-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	7,600		55	150	360	mg/Kg-dry	100	7/13/2016 2:51 PM
Antimony	1.3		0.27	0.36	0.73	mg/Kg-dry	1	7/13/2016 1:10 PM
Arsenic	1.0	J	0.53	0.73	1.5	mg/Kg-dry	1	7/13/2016 1:10 PM
Barium	14		0.22	3.6	7.3	mg/Kg-dry	1	7/13/2016 1:10 PM
Beryllium	0.11	J	0.0092	0.036	0.18	mg/Kg-dry	1	7/13/2016 1:10 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/13/2016 1:10 PM
Calcium	250		2.1	7.3	36	mg/Kg-dry	1	7/13/2016 1:10 PM
Chromium	7.9		0.060	0.29	0.36	mg/Kg-dry	1	7/13/2016 1:10 PM
Cobalt	1.3		0.065	0.18	0.73	mg/Kg-dry	1	7/13/2016 1:10 PM
Copper	16		0.30	0.73	3.6	mg/Kg-dry	1	7/13/2016 1:10 PM
Iron	6,700		23	36	110	mg/Kg-dry	10	7/13/2016 1:53 PM
Lead	3.3	J	0.45	0.73	3.6	mg/Kg-dry	1	7/13/2016 1:10 PM
Magnesium	680		2.5	3.6	36	mg/Kg-dry	1	7/13/2016 1:10 PM
Manganese	57		0.13	0.18	0.73	mg/Kg-dry	1	7/13/2016 1:10 PM
Nickel	3.6	J	0.21	0.73	3.6	mg/Kg-dry	1	7/13/2016 1:10 PM
Potassium	240		1.7	7.3	15	mg/Kg-dry	1	7/13/2016 1:10 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/13/2016 1:10 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/13/2016 1:10 PM
Sodium	47		1.5	3.6	36	mg/Kg-dry	1	7/13/2016 1:10 PM
Vanadium	11		0.092	0.73	1.8	mg/Kg-dry	1	7/13/2016 1:10 PM
Zinc	9.9		0.28	0.36	3.6	mg/Kg-dry	1	7/13/2016 1:10 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.062	JG	0.035	0.036	0.15	mg/Kg-dry	10	7/6/2016 6:16 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
2-Methylnaphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Acenaphthene	0.00082		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Acenaphthylene	0.0010		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Anthracene	0.0014		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Benz(a)anthracene	0.014		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Benzo(a)pyrene	0.011		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Benzo(b)fluoranthene	0.024		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Benzo(g,h,i)perylene	0.0074	YQ	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Benzo(k)fluoranthene	0.0048		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Chrysene	0.010		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Fluoranthene	0.025		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Fluorene	0.0011		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Indeno(1,2,3-cd)pyrene	0.0063		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Naphthalene	0.00080		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Phenanthrene	0.016		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM
Pyrene	0.024		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/26/2016 2:14 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606389-007	**Matrix:**	Soil
Client Sample ID:	BG01-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	87.3			46-115		%Rec	1	6/26/2016 2:14 PM
Surr: Nitrobenzene-d5	98.0			44-125		%Rec	1	6/26/2016 2:14 PM
Surr: Terphenyl-d14	110			58-133		%Rec	1	6/26/2016 2:14 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:20:00 AM
Project:	Camp Hero		
Lab ID:	1606389-008	**Matrix:**	Soil
Client Sample ID:	BG01-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		60	160	400	mg/Kg-dry	100	7/13/2016 2:52 PM
Antimony	3.8		0.30	0.40	0.80	mg/Kg-dry	1	7/13/2016 1:12 PM
Arsenic	2.3		0.58	0.80	1.6	mg/Kg-dry	1	7/13/2016 1:12 PM
Barium	31		0.24	4.0	8.0	mg/Kg-dry	1	7/13/2016 1:12 PM
Beryllium	0.11	J	0.010	0.040	0.20	mg/Kg-dry	1	7/13/2016 1:12 PM
Cadmium	0.040	U	0.026	0.040	0.20	mg/Kg-dry	1	7/13/2016 1:12 PM
Calcium	730		2.4	8.0	40	mg/Kg-dry	1	7/13/2016 1:12 PM
Chromium	18		0.066	0.32	0.40	mg/Kg-dry	1	7/13/2016 1:12 PM
Cobalt	3.8		0.072	0.20	0.80	mg/Kg-dry	1	7/13/2016 1:12 PM
Copper	36		0.33	0.80	4.0	mg/Kg-dry	1	7/13/2016 1:12 PM
Iron	14,000		25	40	120	mg/Kg-dry	10	7/13/2016 1:54 PM
Lead	3.7	J	0.50	0.80	4.0	mg/Kg-dry	1	7/13/2016 1:12 PM
Magnesium	2,400		28	40	400	mg/Kg-dry	10	7/13/2016 1:54 PM
Manganese	150		0.15	0.20	0.80	mg/Kg-dry	1	7/13/2016 1:12 PM
Nickel	8.8		0.23	0.80	4.0	mg/Kg-dry	1	7/13/2016 1:12 PM
Potassium	1,200		1.9	8.0	16	mg/Kg-dry	1	7/13/2016 1:12 PM
Selenium	1.2	U	0.93	1.2	1.6	mg/Kg-dry	1	7/13/2016 1:12 PM
Silver	0.20	U	0.066	0.20	0.80	mg/Kg-dry	1	7/13/2016 1:12 PM
Sodium	90		1.6	4.0	40	mg/Kg-dry	1	7/13/2016 1:12 PM
Vanadium	28		0.10	0.80	2.0	mg/Kg-dry	1	7/13/2016 1:12 PM
Zinc	21		0.31	0.40	4.0	mg/Kg-dry	1	7/13/2016 1:12 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.11	JG	0.039	0.040	0.16	mg/Kg-dry	10	7/6/2016 6:17 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
2-Methylnaphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Acenaphthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Acenaphthylene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Benz(a)anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Benzo(a)pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Benzo(b)fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Benzo(g,h,i)perylene	0.00080	UYQ	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Benzo(k)fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Chrysene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Dibenzo(a,h)anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Fluorene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Indeno(1,2,3-cd)pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Naphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Phenanthrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:20:00 AM
Project:	Camp Hero		
Lab ID:	1606389-008	**Matrix:**	Soil
Client Sample ID:	BG01-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	6/26/2016 2:43 PM
Surr: 2-Fluorobiphenyl	83.2			46-115		%Rec	1	6/26/2016 2:43 PM
Surr: Nitrobenzene-d5	89.2			44-125		%Rec	1	6/26/2016 2:43 PM
Surr: Terphenyl-d14	101			58-133		%Rec	1	6/26/2016 2:43 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:25:00 AM
Project:	Camp Hero		
Lab ID:	1606389-009	**Matrix:**	Soil
Client Sample ID:	BG01-SB03-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	4,000		56	150	370	mg/Kg-dry	100	7/13/2016 2:53 PM
Antimony	1.1		0.28	0.37	0.74	mg/Kg-dry	1	7/13/2016 1:13 PM
Arsenic	2.0		0.54	0.74	1.5	mg/Kg-dry	1	7/13/2016 1:13 PM
Barium	10		0.22	3.7	7.4	mg/Kg-dry	1	7/13/2016 1:13 PM
Beryllium	0.037	U	0.0094	0.037	0.19	mg/Kg-dry	1	7/13/2016 1:13 PM
Cadmium	0.037	U	0.024	0.037	0.19	mg/Kg-dry	1	7/13/2016 1:13 PM
Calcium	410		2.2	7.4	37	mg/Kg-dry	1	7/13/2016 1:13 PM
Chromium	8.5		0.061	0.30	0.37	mg/Kg-dry	1	7/13/2016 1:13 PM
Cobalt	1.1		0.067	0.19	0.74	mg/Kg-dry	1	7/13/2016 1:13 PM
Copper	13		0.31	0.74	3.7	mg/Kg-dry	1	7/13/2016 1:13 PM
Iron	5,200		23	37	110	mg/Kg-dry	10	7/13/2016 1:55 PM
Lead	1.8	J	0.46	0.74	3.7	mg/Kg-dry	1	7/13/2016 1:13 PM
Magnesium	730		2.6	3.7	37	mg/Kg-dry	1	7/13/2016 1:13 PM
Manganese	64		0.14	0.19	0.74	mg/Kg-dry	1	7/13/2016 1:13 PM
Nickel	2.7	J	0.21	0.74	3.7	mg/Kg-dry	1	7/13/2016 1:13 PM
Potassium	440		1.7	7.4	15	mg/Kg-dry	1	7/13/2016 1:13 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/13/2016 1:13 PM
Silver	0.19	U	0.061	0.19	0.74	mg/Kg-dry	1	7/13/2016 1:13 PM
Sodium	53		1.5	3.7	37	mg/Kg-dry	1	7/13/2016 1:13 PM
Vanadium	19		0.094	0.74	1.9	mg/Kg-dry	1	7/13/2016 1:13 PM
Zinc	7.3		0.29	0.37	3.7	mg/Kg-dry	1	7/13/2016 1:13 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.066	JG	0.037	0.038	0.15	mg/Kg-dry	10	7/6/2016 6:18 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
2-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Benz(a)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Benzo(a)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Benzo(b)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Benzo(g,h,i)perylene	0.00076	UYQ	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Benzo(k)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Chrysene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Indeno(1,2,3-cd)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Naphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Phenanthrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 9:25:00 AM
Project:	Camp Hero		
Lab ID:	1606389-009	**Matrix:**	Soil
Client Sample ID:	BG01-SB03-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:13 PM
Surr: 2-Fluorobiphenyl	85.6			46-115		%Rec	1	6/26/2016 3:13 PM
Surr: Nitrobenzene-d5	92.4			44-125		%Rec	1	6/26/2016 3:13 PM
Surr: Terphenyl-d14	109			58-133		%Rec	1	6/26/2016 3:13 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 11:40:00 AM
Project: Camp Hero
Lab ID: 1606389-010 **Matrix:** Soil
Client Sample ID: BG01-SS04-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,500		54	140	360	mg/Kg-dry	100	7/13/2016 2:55 PM
Antimony	1.1		0.27	0.36	0.72	mg/Kg-dry	1	7/13/2016 1:14 PM
Arsenic	1.2	J	0.52	0.72	1.4	mg/Kg-dry	1	7/13/2016 1:14 PM
Barium	17		0.21	3.6	7.2	mg/Kg-dry	1	7/13/2016 1:14 PM
Beryllium	0.063	J	0.0091	0.036	0.18	mg/Kg-dry	1	7/13/2016 1:14 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/13/2016 1:14 PM
Calcium	220		2.1	7.2	36	mg/Kg-dry	1	7/13/2016 1:14 PM
Chromium	7.9		0.059	0.29	0.36	mg/Kg-dry	1	7/13/2016 1:14 PM
Cobalt	1.1		0.065	0.18	0.72	mg/Kg-dry	1	7/13/2016 1:14 PM
Copper	14		0.30	0.72	3.6	mg/Kg-dry	1	7/13/2016 1:14 PM
Iron	5,700		22	36	110	mg/Kg-dry	10	7/13/2016 1:57 PM
Lead	3.8		0.45	0.72	3.6	mg/Kg-dry	1	7/13/2016 1:14 PM
Magnesium	540		2.5	3.6	36	mg/Kg-dry	1	7/13/2016 1:14 PM
Manganese	39		0.13	0.18	0.72	mg/Kg-dry	1	7/13/2016 1:14 PM
Nickel	4.4		0.20	0.72	3.6	mg/Kg-dry	1	7/13/2016 1:14 PM
Potassium	270		1.7	7.2	14	mg/Kg-dry	1	7/13/2016 1:14 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/13/2016 1:14 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/13/2016 1:14 PM
Sodium	42		1.5	3.6	36	mg/Kg-dry	1	7/13/2016 1:14 PM
Vanadium	11		0.091	0.72	1.8	mg/Kg-dry	1	7/13/2016 1:14 PM
Zinc	14		0.28	0.36	3.6	mg/Kg-dry	1	7/13/2016 1:14 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.061	JG	0.037	0.038	0.15	mg/Kg-dry	10	7/6/2016 6:19 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
2-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Benz(a)anthracene	0.00094		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Benzo(a)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Benzo(b)fluoranthene	0.0018		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Benzo(g,h,i)perylene	0.00076	UYQ	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Benzo(k)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Chrysene	0.00086		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Fluoranthene	0.0017		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Indeno(1,2,3-cd)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Naphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Phenanthrene	0.0013		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:40:00 AM
Project:	Camp Hero		
Lab ID:	1606389-010	**Matrix:**	Soil
Client Sample ID:	BG01-SS04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.0017		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/26/2016 3:42 PM
Surr: 2-Fluorobiphenyl	86.2			46-115		%Rec	1	6/26/2016 3:42 PM
Surr: Nitrobenzene-d5	95.6			44-125		%Rec	1	6/26/2016 3:42 PM
Surr: Terphenyl-d14	111			58-133		%Rec	1	6/26/2016 3:42 PM
Percent Moisture				**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:50:00 AM
Project:	Camp Hero		
Lab ID:	1606389-011	**Matrix:**	Soil
Client Sample ID:	BG01-SB04-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals Metals, ICP/OES			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	2,700		59	160	390	mg/Kg-dry	100	7/13/2016 2:56 PM
Antimony	0.72	J	0.29	0.39	0.78	mg/Kg-dry	1	7/13/2016 1:16 PM
Arsenic	0.78	U	0.57	0.78	1.6	mg/Kg-dry	1	7/13/2016 1:16 PM
Barium	5.3	J	0.23	3.9	7.8	mg/Kg-dry	1	7/13/2016 1:16 PM
Beryllium	0.032	J	0.0099	0.039	0.20	mg/Kg-dry	1	7/13/2016 1:16 PM
Cadmium	0.039	U	0.026	0.039	0.20	mg/Kg-dry	1	7/13/2016 1:16 PM
Calcium	170		2.3	7.8	39	mg/Kg-dry	1	7/13/2016 1:16 PM
Chromium	3.2		0.065	0.31	0.39	mg/Kg-dry	1	7/13/2016 1:16 PM
Cobalt	0.70	J	0.071	0.20	0.78	mg/Kg-dry	1	7/13/2016 1:16 PM
Copper	5.4		0.33	0.78	3.9	mg/Kg-dry	1	7/13/2016 1:16 PM
Iron	1,900		2.4	3.9	12	mg/Kg-dry	1	7/13/2016 1:16 PM
Lead	0.61	J	0.49	0.78	3.9	mg/Kg-dry	1	7/13/2016 1:16 PM
Magnesium	320		2.7	3.9	39	mg/Kg-dry	1	7/13/2016 1:16 PM
Manganese	25		0.14	0.20	0.78	mg/Kg-dry	1	7/13/2016 1:16 PM
Nickel	1.6	J	0.22	0.78	3.9	mg/Kg-dry	1	7/13/2016 1:16 PM
Potassium	210		1.8	7.8	16	mg/Kg-dry	1	7/13/2016 1:16 PM
Selenium	1.2	U	0.91	1.2	1.6	mg/Kg-dry	1	7/13/2016 1:16 PM
Silver	0.20	U	0.064	0.20	0.78	mg/Kg-dry	1	7/13/2016 1:16 PM
Sodium	41		1.6	3.9	39	mg/Kg-dry	1	7/13/2016 1:16 PM
Vanadium	4.1		0.099	0.78	2.0	mg/Kg-dry	1	7/13/2016 1:16 PM
Zinc	3.0	J	0.30	0.39	3.9	mg/Kg-dry	1	7/13/2016 1:16 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.039	U	0.038	0.039	0.16	mg/Kg-dry	10	7/12/2016 11:15 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
2-Methylnaphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Acenaphthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Acenaphthylene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Benz(a)anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Benzo(a)pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Benzo(b)fluoranthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Benzo(g,h,i)perylene	0.00082	UYQ	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Benzo(k)fluoranthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Chrysene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Dibenzo(a,h)anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Fluoranthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Fluorene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Indeno(1,2,3-cd)pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Naphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Phenanthrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:50:00 AM
Project:	Camp Hero		
Lab ID:	1606389-011	**Matrix:**	Soil
Client Sample ID:	BG01-SB04-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	6/26/2016 4:11 PM
Surr: 2-Fluorobiphenyl	94.2			46-115		%Rec	1	6/26/2016 4:11 PM
Surr: Nitrobenzene-d5	103			44-125		%Rec	1	6/26/2016 4:11 PM
Surr: Terphenyl-d14	123			58-133		%Rec	1	6/26/2016 4:11 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606389-012	**Matrix:**	Soil
Client Sample ID:	BG01-SB04-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,000		58	160	390	mg/Kg-dry	100	7/13/2016 2:57 PM
Antimony	1.7		0.29	0.39	0.78	mg/Kg-dry	1	7/13/2016 1:17 PM
Arsenic	0.82	J	0.56	0.78	1.6	mg/Kg-dry	1	7/13/2016 1:17 PM
Barium	18		0.23	3.9	7.8	mg/Kg-dry	1	7/13/2016 1:17 PM
Beryllium	0.031	J	0.0099	0.039	0.19	mg/Kg-dry	1	7/13/2016 1:17 PM
Cadmium	0.039	U	0.026	0.039	0.19	mg/Kg-dry	1	7/13/2016 1:17 PM
Calcium	300		2.3	7.8	39	mg/Kg-dry	1	7/13/2016 1:17 PM
Chromium	10		0.064	0.31	0.39	mg/Kg-dry	1	7/13/2016 1:17 PM
Cobalt	1.7		0.070	0.19	0.78	mg/Kg-dry	1	7/13/2016 1:17 PM
Copper	11		0.32	0.78	3.9	mg/Kg-dry	1	7/13/2016 1:17 PM
Iron	3,800		24	39	120	mg/Kg-dry	10	7/13/2016 1:59 PM
Lead	1.5	J	0.48	0.78	3.9	mg/Kg-dry	1	7/13/2016 1:17 PM
Magnesium	990		2.7	3.9	39	mg/Kg-dry	1	7/13/2016 1:17 PM
Manganese	48		0.14	0.19	0.78	mg/Kg-dry	1	7/13/2016 1:17 PM
Nickel	4.6		0.22	0.78	3.9	mg/Kg-dry	1	7/13/2016 1:17 PM
Potassium	550		1.8	7.8	16	mg/Kg-dry	1	7/13/2016 1:17 PM
Selenium	1.2	U	0.90	1.2	1.6	mg/Kg-dry	1	7/13/2016 1:17 PM
Silver	0.19	U	0.064	0.19	0.78	mg/Kg-dry	1	7/13/2016 1:17 PM
Sodium	55		1.6	3.9	39	mg/Kg-dry	1	7/13/2016 1:17 PM
Vanadium	9.1		0.099	0.78	1.9	mg/Kg-dry	1	7/13/2016 1:17 PM
Zinc	8.9		0.30	0.39	3.9	mg/Kg-dry	1	7/13/2016 1:17 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.17		0.038	0.039	0.16	mg/Kg-dry	10	7/12/2016 12:31 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
2-Methylnaphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Acenaphthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Acenaphthylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Benz(a)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Benzo(a)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Benzo(b)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Benzo(g,h,i)perylene	0.00079	UYQ	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Benzo(k)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Chrysene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Dibenzo(a,h)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Fluorene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Indeno(1,2,3-cd)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Naphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Phenanthrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606389-012	**Matrix:**	Soil
Client Sample ID:	BG01-SB04-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	6/26/2016 4:40 PM
Surr: 2-Fluorobiphenyl	94.2			46-115		%Rec	1	6/26/2016 4:40 PM
Surr: Nitrobenzene-d5	105			44-125		%Rec	1	6/26/2016 4:40 PM
Surr: Terphenyl-d14	114			58-133		%Rec	1	6/26/2016 4:40 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606389-013	**Matrix:**	Soil
Client Sample ID:	BG01-SB04-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	4,700		57	150	380	mg/Kg-dry	100	7/13/2016 2:59 PM
Antimony	1.4		0.29	0.38	0.76	mg/Kg-dry	1	7/13/2016 1:18 PM
Arsenic	0.85	J	0.55	0.76	1.5	mg/Kg-dry	1	7/13/2016 1:18 PM
Barium	12		0.23	3.8	7.6	mg/Kg-dry	1	7/13/2016 1:18 PM
Beryllium	0.029	J	0.0097	0.038	0.19	mg/Kg-dry	1	7/13/2016 1:18 PM
Cadmium	0.038	U	0.025	0.038	0.19	mg/Kg-dry	1	7/13/2016 1:18 PM
Calcium	270		2.2	7.6	38	mg/Kg-dry	1	7/13/2016 1:18 PM
Chromium	7.2		0.063	0.31	0.38	mg/Kg-dry	1	7/13/2016 1:18 PM
Cobalt	1.3		0.069	0.19	0.76	mg/Kg-dry	1	7/13/2016 1:18 PM
Copper	9.3		0.32	0.76	3.8	mg/Kg-dry	1	7/13/2016 1:18 PM
Iron	3,000		24	38	110	mg/Kg-dry	10	7/13/2016 2:01 PM
Lead	1.5	J	0.48	0.76	3.8	mg/Kg-dry	1	7/13/2016 1:18 PM
Magnesium	750		2.7	3.8	38	mg/Kg-dry	1	7/13/2016 1:18 PM
Manganese	38		0.14	0.19	0.76	mg/Kg-dry	1	7/13/2016 1:18 PM
Nickel	3.6	J	0.22	0.76	3.8	mg/Kg-dry	1	7/13/2016 1:18 PM
Potassium	420		1.8	7.6	15	mg/Kg-dry	1	7/13/2016 1:18 PM
Selenium	1.1	U	0.89	1.1	1.5	mg/Kg-dry	1	7/13/2016 1:18 PM
Silver	0.19	U	0.063	0.19	0.76	mg/Kg-dry	1	7/13/2016 1:18 PM
Sodium	50		1.6	3.8	38	mg/Kg-dry	1	7/13/2016 1:18 PM
Vanadium	7.1		0.097	0.76	1.9	mg/Kg-dry	1	7/13/2016 1:18 PM
Zinc	6.9		0.30	0.38	3.8	mg/Kg-dry	1	7/13/2016 1:18 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.089	J	0.037	0.038	0.15	mg/Kg-dry	10	7/12/2016 12:32 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
2-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Benz(a)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Benzo(a)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Benzo(b)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Benzo(g,h,i)perylene	0.00077	UYQ	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Benzo(k)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Chrysene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Naphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Phenanthrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606389-013	**Matrix:**	Soil
Client Sample ID:	BG01-SB04-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/26/2016 5:09 PM
Surr: 2-Fluorobiphenyl	96.5			46-115		%Rec	1	6/26/2016 5:09 PM
Surr: Nitrobenzene-d5	108			44-125		%Rec	1	6/26/2016 5:09 PM
Surr: Terphenyl-d14	120			58-133		%Rec	1	6/26/2016 5:09 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 10:50:00 AM
Project: Camp Hero
Lab ID: 1606389-014 **Matrix:** Soil
Client Sample ID: BG01-SS05-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,400		64	170	430	mg/Kg-dry	100	7/1/2016 2:21 PM
Antimony	1.1		0.32	0.43	0.85	mg/Kg-dry	1	7/1/2016 12:33 PM
Arsenic	1.3	J	0.62	0.85	1.7	mg/Kg-dry	1	7/1/2016 12:33 PM
Barium	17		0.25	4.3	8.5	mg/Kg-dry	1	7/1/2016 12:33 PM
Beryllium	0.093	J	0.011	0.043	0.21	mg/Kg-dry	1	7/1/2016 12:33 PM
Cadmium	0.047	J	0.028	0.043	0.21	mg/Kg-dry	1	7/1/2016 12:33 PM
Calcium	270		2.5	8.5	43	mg/Kg-dry	1	7/1/2016 12:33 PM
Chromium	8.3		0.070	0.34	0.43	mg/Kg-dry	1	7/1/2016 12:33 PM
Cobalt	1.2		0.076	0.21	0.85	mg/Kg-dry	1	7/1/2016 12:33 PM
Copper	14		0.35	0.85	4.3	mg/Kg-dry	1	7/1/2016 12:33 PM
Iron	5,800		27	43	130	mg/Kg-dry	10	7/1/2016 2:01 PM
Lead	11		0.53	0.85	4.3	mg/Kg-dry	1	7/1/2016 12:33 PM
Magnesium	600		3.0	4.3	43	mg/Kg-dry	1	7/1/2016 12:33 PM
Manganese	50		0.16	0.21	0.85	mg/Kg-dry	1	7/1/2016 12:33 PM
Nickel	4.2	J	0.24	0.85	4.3	mg/Kg-dry	1	7/1/2016 12:33 PM
Potassium	340		2.0	8.5	17	mg/Kg-dry	1	7/5/2016 5:12 PM
Selenium	1.3	U	0.99	1.3	1.7	mg/Kg-dry	1	7/1/2016 12:33 PM
Silver	0.21	U	0.070	0.21	0.85	mg/Kg-dry	1	7/1/2016 12:33 PM
Sodium	62		1.7	4.3	43	mg/Kg-dry	1	7/1/2016 12:33 PM
Vanadium	13		0.11	0.85	2.1	mg/Kg-dry	1	7/1/2016 12:33 PM
Zinc	12		0.33	0.43	4.3	mg/Kg-dry	1	7/1/2016 12:33 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.14	J	0.042	0.043	0.17	mg/Kg-dry	10	7/12/2016 12:33 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0059		0.00086	0.00086	0.00086	mg/Kg-dry	1	6/26/2016 5:38 PM
2-Methylnaphthalene	0.0052		0.00086	0.00086	0.00086	mg/Kg-dry	1	6/26/2016 5:38 PM
Acenaphthene	0.024		0.00086	0.00086	0.00086	mg/Kg-dry	1	6/26/2016 5:38 PM
Acenaphthylene	0.012		0.00086	0.00086	0.00086	mg/Kg-dry	1	6/26/2016 5:38 PM
Anthracene	0.057		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/22/2016 3:40 PM
Benz(a)anthracene	0.20	H	0.043	0.043	0.043	mg/Kg-dry	50	7/27/2016 11:35 AM
Benzo(a)pyrene	0.53		0.017	0.017	0.017	mg/Kg-dry	20	7/22/2016 4:06 PM
Benzo(b)fluoranthene	0.30	H	0.043	0.043	0.043	mg/Kg-dry	50	7/27/2016 11:35 AM
Benzo(g,h,i)perylene	0.082		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/22/2016 3:40 PM
Benzo(k)fluoranthene	0.44		0.017	0.017	0.017	mg/Kg-dry	20	7/22/2016 4:06 PM
Chrysene	0.20	H	0.043	0.043	0.043	mg/Kg-dry	50	7/27/2016 11:35 AM
Dibenzo(a,h)anthracene	0.021		0.00086	0.00086	0.00086	mg/Kg-dry	1	6/26/2016 5:38 PM
Fluoranthene	0.57	H	0.043	0.043	0.043	mg/Kg-dry	50	7/27/2016 11:35 AM
Fluorene	0.030		0.00086	0.00086	0.00086	mg/Kg-dry	1	6/26/2016 5:38 PM
Indeno(1,2,3-cd)pyrene	0.36		0.017	0.017	0.017	mg/Kg-dry	20	7/22/2016 4:06 PM
Naphthalene	0.0057		0.00086	0.00086	0.00086	mg/Kg-dry	1	6/26/2016 5:38 PM
Phenanthrene	0.31	H	0.043	0.043	0.043	mg/Kg-dry	50	7/27/2016 11:35 AM
Pyrene	0.43	H	0.043	0.043	0.043	mg/Kg-dry	50	7/27/2016 11:35 AM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 10:50:00 AM
Project:	Camp Hero		
Lab ID:	1606389-014	**Matrix:**	Soil
Client Sample ID:	BG01-SS05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	91.4			46-115		%Rec	1	6/26/2016 5:38 PM
Surr: Nitrobenzene-d5	103			44-125		%Rec	1	6/26/2016 5:38 PM
Surr: Terphenyl-d14	131			58-133		%Rec	1	6/26/2016 5:38 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	23		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 12:55:00 PM
Project: Camp Hero
Lab ID: 1606389-015 **Matrix:** Soil
Client Sample ID: BG01-SS06-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,200		55	150	370	mg/Kg-dry	100	7/1/2016 2:22 PM
Antimony	5.3		0.27	0.37	0.73	mg/Kg-dry	1	7/1/2016 12:34 PM
Arsenic	2.8		0.53	0.73	1.5	mg/Kg-dry	1	7/1/2016 12:34 PM
Barium	14		0.22	3.7	7.3	mg/Kg-dry	1	7/1/2016 12:34 PM
Beryllium	4.9		0.0093	0.037	0.18	mg/Kg-dry	1	7/1/2016 12:34 PM
Cadmium	4.1		0.024	0.037	0.18	mg/Kg-dry	1	7/1/2016 12:34 PM
Calcium	270		2.1	7.3	37	mg/Kg-dry	1	7/1/2016 12:34 PM
Chromium	9.7		0.060	0.29	0.37	mg/Kg-dry	1	7/1/2016 12:34 PM
Cobalt	5.5		0.066	0.18	0.73	mg/Kg-dry	1	7/1/2016 12:34 PM
Copper	17		0.30	0.73	3.7	mg/Kg-dry	1	7/1/2016 12:34 PM
Iron	4,700		23	37	110	mg/Kg-dry	10	7/1/2016 2:02 PM
Lead	9.8		0.45	0.73	3.7	mg/Kg-dry	1	7/1/2016 12:34 PM
Magnesium	290		2.6	3.7	37	mg/Kg-dry	1	7/1/2016 12:34 PM
Manganese	44		0.13	0.18	0.73	mg/Kg-dry	1	7/1/2016 12:34 PM
Nickel	7.2		0.21	0.73	3.7	mg/Kg-dry	1	7/1/2016 12:34 PM
Potassium	170		1.7	7.3	15	mg/Kg-dry	1	7/5/2016 5:14 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/1/2016 12:34 PM
Silver	3.8		0.060	0.18	0.73	mg/Kg-dry	1	7/1/2016 12:34 PM
Sodium	63		1.5	3.7	37	mg/Kg-dry	1	7/1/2016 12:34 PM
Vanadium	13		0.093	0.73	1.8	mg/Kg-dry	1	7/1/2016 12:34 PM
Zinc	25		0.28	0.37	3.7	mg/Kg-dry	1	7/1/2016 12:34 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.13	J	0.034	0.035	0.14	mg/Kg-dry	10	7/12/2016 12:33 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
2-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Acenaphthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Acenaphthylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Anthracene	0.0011		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Benz(a)anthracene	0.0067		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Benzo(a)pyrene	0.0054		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Benzo(b)fluoranthene	0.011		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Benzo(g,h,i)perylene	0.0030	YQ	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Benzo(k)fluoranthene	0.0031		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Chrysene	0.0051		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Fluoranthene	0.013		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Fluorene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Indeno(1,2,3-cd)pyrene	0.0025		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Naphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Phenanthrene	0.0090		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM
Pyrene	0.012		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/26/2016 6:07 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 12:55:00 PM
Project:	Camp Hero		
Lab ID:	1606389-015	**Matrix:**	Soil
Client Sample ID:	BG01-SS06-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	87.8			46-115		%Rec	1	6/26/2016 6:07 PM
Surr: Nitrobenzene-d5	99.0			44-125		%Rec	1	6/26/2016 6:07 PM
Surr: Terphenyl-d14	109			58-133		%Rec	1	6/26/2016 6:07 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606389-016	**Matrix:**	Soil
Client Sample ID:	BG01-SS07-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,100		54	140	360	mg/Kg-dry	100	7/1/2016 2:23 PM
Antimony	0.90		0.27	0.36	0.72	mg/Kg-dry	1	7/1/2016 12:36 PM
Arsenic	0.70	J	0.52	0.72	1.4	mg/Kg-dry	1	7/1/2016 12:36 PM
Barium	10		0.21	3.6	7.2	mg/Kg-dry	1	7/1/2016 12:36 PM
Beryllium	0.17	J	0.0091	0.036	0.18	mg/Kg-dry	1	7/1/2016 12:36 PM
Cadmium	0.032	J	0.024	0.036	0.18	mg/Kg-dry	1	7/1/2016 12:36 PM
Calcium	240		2.1	7.2	36	mg/Kg-dry	1	7/1/2016 12:36 PM
Chromium	6.3		0.059	0.29	0.36	mg/Kg-dry	1	7/1/2016 12:36 PM
Cobalt	1.0		0.065	0.18	0.72	mg/Kg-dry	1	7/1/2016 12:36 PM
Copper	14		0.30	0.72	3.6	mg/Kg-dry	1	7/1/2016 12:36 PM
Iron	5,700		23	36	110	mg/Kg-dry	10	7/1/2016 2:03 PM
Lead	3.2	J	0.45	0.72	3.6	mg/Kg-dry	1	7/1/2016 12:36 PM
Magnesium	500		2.5	3.6	36	mg/Kg-dry	1	7/1/2016 12:36 PM
Manganese	45		0.13	0.18	0.72	mg/Kg-dry	1	7/1/2016 12:36 PM
Nickel	2.9	J	0.20	0.72	3.6	mg/Kg-dry	1	7/1/2016 12:36 PM
Potassium	220		1.7	7.2	14	mg/Kg-dry	1	7/5/2016 5:15 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/1/2016 12:36 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/1/2016 12:36 PM
Sodium	46		1.5	3.6	36	mg/Kg-dry	1	7/1/2016 12:36 PM
Vanadium	9.0		0.091	0.72	1.8	mg/Kg-dry	1	7/1/2016 12:36 PM
Zinc	6.9		0.28	0.36	3.6	mg/Kg-dry	1	7/1/2016 12:36 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.091	J	0.036	0.037	0.15	mg/Kg-dry	10	7/12/2016 12:34 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
2-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Acenaphthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Acenaphthylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Benz(a)anthracene	0.0013		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Benzo(a)pyrene	0.00082		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Benzo(b)fluoranthene	0.0021		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Benzo(g,h,i)perylene	0.00073	UYQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Benzo(k)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Chrysene	0.00084		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Dibenzo(a,h)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Fluoranthene	0.0019		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Fluorene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Indeno(1,2,3-cd)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Naphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Phenanthrene	0.0015		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606389-016	**Matrix:**	Soil
Client Sample ID:	BG01-SS07-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.0019		0.00073	0.00073	0.00073	mg/Kg-dry	1	6/26/2016 6:36 PM
Surr: 2-Fluorobiphenyl	89.1			46-115		%Rec	1	6/26/2016 6:36 PM
Surr: Nitrobenzene-d5	102			44-125		%Rec	1	6/26/2016 6:36 PM
Surr: Terphenyl-d14	114			58-133		%Rec	1	6/26/2016 6:36 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 12:25:00 PM
Project: Camp Hero
Lab ID: 1606389-017 **Matrix:** Soil
Client Sample ID: BG01-SS07-01 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,000		56	150	370	mg/Kg-dry	100	7/1/2016 2:25 PM
Antimony	0.54	J	0.28	0.37	0.75	mg/Kg-dry	1	7/1/2016 12:37 PM
Arsenic	1.2	J	0.54	0.75	1.5	mg/Kg-dry	1	7/1/2016 12:37 PM
Barium	8.5		0.22	3.7	7.5	mg/Kg-dry	1	7/1/2016 12:37 PM
Beryllium	0.051	J	0.0094	0.037	0.19	mg/Kg-dry	1	7/1/2016 12:37 PM
Cadmium	0.036	J	0.025	0.037	0.19	mg/Kg-dry	1	7/1/2016 12:37 PM
Calcium	250		2.2	7.5	37	mg/Kg-dry	1	7/1/2016 12:37 PM
Chromium	5.3		0.061	0.30	0.37	mg/Kg-dry	1	7/1/2016 12:37 PM
Cobalt	0.74	J	0.067	0.19	0.75	mg/Kg-dry	1	7/1/2016 12:37 PM
Copper	13		0.31	0.75	3.7	mg/Kg-dry	1	7/1/2016 12:37 PM
Iron	5,500		23	37	110	mg/Kg-dry	10	7/1/2016 2:05 PM
Lead	4.1		0.46	0.75	3.7	mg/Kg-dry	1	7/1/2016 12:37 PM
Magnesium	410		2.6	3.7	37	mg/Kg-dry	1	7/1/2016 12:37 PM
Manganese	39		0.14	0.19	0.75	mg/Kg-dry	1	7/1/2016 12:37 PM
Nickel	2.1	J	0.21	0.75	3.7	mg/Kg-dry	1	7/1/2016 12:37 PM
Potassium	220		1.7	7.5	15	mg/Kg-dry	1	7/5/2016 5:16 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	7/1/2016 12:37 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	7/1/2016 12:37 PM
Sodium	52		1.5	3.7	37	mg/Kg-dry	1	7/1/2016 12:37 PM
Vanadium	8.9		0.094	0.75	1.9	mg/Kg-dry	1	7/1/2016 12:37 PM
Zinc	6.4		0.29	0.37	3.7	mg/Kg-dry	1	7/1/2016 12:37 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.13	J	0.036	0.038	0.15	mg/Kg-dry	10	7/12/2016 12:35 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
2-Methylnaphthalene	0.00087		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Benz(a)anthracene	0.0014		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Benzo(a)pyrene	0.00095		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Benzo(b)fluoranthene	0.0020		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Benzo(g,h,i)perylene	0.00084		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Benzo(k)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Chrysene	0.0010		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Fluoranthene	0.0024		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Indeno(1,2,3-cd)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Naphthalene	0.00099		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Phenanthrene	0.0019		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM
Pyrene	0.0024		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 8:54 AM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606389-017	**Matrix:**	Soil
Client Sample ID:	BG01-SS07-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	84.2			46-115		%Rec	1	6/28/2016 8:54 AM
Surr: Nitrobenzene-d5	92.9			44-125		%Rec	1	6/28/2016 8:54 AM
Surr: Terphenyl-d14	96.9			58-133		%Rec	1	6/28/2016 8:54 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 12:10:00 PM
Project: Camp Hero
Lab ID: 1606389-018 **Matrix:** Soil
Client Sample ID: BG01-SS08-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,500		58	150	390	mg/Kg-dry	100	7/1/2016 2:26 PM
Antimony	0.45	J	0.29	0.39	0.77	mg/Kg-dry	1	7/1/2016 12:38 PM
Arsenic	0.77	U	0.56	0.77	1.5	mg/Kg-dry	1	7/1/2016 12:38 PM
Barium	9.4		0.23	3.9	7.7	mg/Kg-dry	1	7/1/2016 12:38 PM
Beryllium	0.051	J	0.0098	0.039	0.19	mg/Kg-dry	1	7/1/2016 12:38 PM
Cadmium	0.044	J	0.025	0.039	0.19	mg/Kg-dry	1	7/1/2016 12:38 PM
Calcium	220		2.3	7.7	39	mg/Kg-dry	1	7/1/2016 12:38 PM
Chromium	4.2		0.063	0.31	0.39	mg/Kg-dry	1	7/1/2016 12:38 PM
Cobalt	0.57	J	0.069	0.19	0.77	mg/Kg-dry	1	7/1/2016 12:38 PM
Copper	9.0		0.32	0.77	3.9	mg/Kg-dry	1	7/1/2016 12:38 PM
Iron	3,600		24	39	120	mg/Kg-dry	10	7/1/2016 2:06 PM
Lead	3.1	J	0.48	0.77	3.9	mg/Kg-dry	1	7/1/2016 12:38 PM
Magnesium	300		2.7	3.9	39	mg/Kg-dry	1	7/1/2016 12:38 PM
Manganese	30		0.14	0.19	0.77	mg/Kg-dry	1	7/1/2016 12:38 PM
Nickel	1.9	J	0.22	0.77	3.9	mg/Kg-dry	1	7/1/2016 12:38 PM
Potassium	200		1.8	7.7	15	mg/Kg-dry	1	7/5/2016 5:18 PM
Selenium	1.2	U	0.90	1.2	1.5	mg/Kg-dry	1	7/1/2016 12:38 PM
Silver	0.19	U	0.063	0.19	0.77	mg/Kg-dry	1	7/1/2016 12:38 PM
Sodium	50		1.6	3.9	39	mg/Kg-dry	1	7/1/2016 12:38 PM
Vanadium	7.1		0.098	0.77	1.9	mg/Kg-dry	1	7/1/2016 12:38 PM
Zinc	6.7		0.30	0.39	3.9	mg/Kg-dry	1	7/1/2016 12:38 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.055	J	0.036	0.038	0.15	mg/Kg-dry	10	7/12/2016 11:16 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
2-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Acenaphthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Acenaphthylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Benz(a)anthracene	0.00088		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Benzo(a)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Benzo(b)fluoranthene	0.0013		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Benzo(g,h,i)perylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Benzo(k)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Chrysene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Dibenzo(a,h)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Fluoranthene	0.0017		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Fluorene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Indeno(1,2,3-cd)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Naphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Phenanthrene	0.0013		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM
Pyrene	0.0016		0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 9:23 AM

RTI Laboratories - Analytical Report

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 12:10:00 PM
Project:	Camp Hero		
Lab ID:	1606389-018	**Matrix:**	Soil
Client Sample ID:	BG01-SS08-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	73.9			46-115		%Rec	1	6/28/2016 9:23 AM
Surr: Nitrobenzene-d5	84.3			44-125		%Rec	1	6/28/2016 9:23 AM
Surr: Terphenyl-d14	92.2			58-133		%Rec	1	6/28/2016 9:23 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - DATES REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606389-001A	BG01-SS01-01	6/9/2016 11:05 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 10:21 AM
1606389-001B	BG01-SS01-01	6/9/2016 11:05 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 6:12 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 12:56 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:37 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:38 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-002A	BG01-SB01-05	6/9/2016 11:10 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 10:50 AM
1606389-002B	BG01-SB01-05	6/9/2016 11:10 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 6:13 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 12:58 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:38 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:39 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-003A	BG01-SB01-06	6/9/2016 11:20 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 11:18 AM
1606389-003B	BG01-SB01-06	6/9/2016 11:20 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 6:14 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:06 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:49 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:47 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-004A	BG01-SS02-01	6/9/2016 9:40 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 11:47 AM
1606389-004B	BG01-SS02-01	6/9/2016 9:40 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 6:15 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:08 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:50 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:48 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM

RTI Laboratories - DATES REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606389-005A	BG01-SB02-05	6/9/2016 9:45 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 12:16 PM
1606389-005B	BG01-SB02-05	6/9/2016 9:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 5:46 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	6/22/2016 3:44 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 12:29 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:27 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:28 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-006A	BG01-SB02-06	6/9/2016 9:50 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 1:44 PM
1606389-006B	BG01-SB02-06	6/9/2016 9:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 6:16 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:09 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:52 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:50 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-007A	BG01-SS03-01	6/9/2016 9:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 2:14 PM
1606389-007B	BG01-SS03-01	6/9/2016 9:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 6:16 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:10 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:53 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:51 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-008A	BG01-SB03-05	6/9/2016 9:20 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 2:43 PM
1606389-008B	BG01-SB03-05	6/9/2016 9:20 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 6:17 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:12 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:54 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:52 PM

RTI Laboratories - DATES REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606389-008B	BG01-SB03-05	6/9/2016 9:20 AM	Soil				
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-009A	BG01-SB03-08	6/9/2016 9:25 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 3:13 PM
1606389-009B	BG01-SB03-08	6/9/2016 9:25 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 6:18 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:13 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:55 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:53 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-010A	BG01-SS04-01	6/9/2016 11:40 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 3:42 PM
1606389-010B	BG01-SS04-01	6/9/2016 11:40 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/5/2016 2:13 PM	7/6/2016 6:19 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:14 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:57 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:55 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-011A	BG01-SB04-04	6/9/2016 11:50 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 4:11 PM
1606389-011B	BG01-SB04-04	6/9/2016 11:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:15 AM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:16 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:58 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:56 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-012A	BG01-SB04-05	6/9/2016 11:45 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 4:40 PM
1606389-012B	BG01-SB04-05	6/9/2016 11:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:31 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:17 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:59 PM

RTI Laboratories - DATES REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606389-012B	BG01-SB04-05	6/9/2016 11:45 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:57 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-013A	BG01-SB04-05 DUP	6/9/2016 11:45 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 5:09 PM
1606389-013B	BG01-SB04-05 DUP	6/9/2016 11:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:32 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 1:18 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:01 PM
				SW_6010S-Metals, ICP/OES		6/15/2016 7:50 AM	7/13/2016 2:59 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-014A	BG01-SS05-01	6/9/2016 10:50 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 5:38 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	7/22/2016 3:40 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	7/22/2016 4:06 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	7/27/2016 11:35 AM
1606389-014B	BG01-SS05-01	6/9/2016 10:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:33 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 12:33 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:01 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:21 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:12 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-015A	BG01-SS06-01	6/9/2016 12:55 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 6:07 PM
1606389-015B	BG01-SS06-01	6/9/2016 12:55 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:33 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 12:34 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:02 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:22 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:14 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM

RTI Laboratories - DATES REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606389-016A	BG01-SS07-01	6/9/2016 12:25 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/15/2016 6:24 PM	6/26/2016 6:36 PM
1606389-016B	BG01-SS07-01	6/9/2016 12:25 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:34 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 12:36 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:03 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:23 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:15 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-017A	BG01-SS07-01 DUP	6/9/2016 12:25 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/28/2016 8:54 AM
1606389-017B	BG01-SS07-01 DUP	6/9/2016 12:25 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:35 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 12:37 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:05 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:25 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:16 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606389-018A	BG01-SS08-01	6/9/2016 12:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/28/2016 9:23 AM
1606389-018B	BG01-SS08-01	6/9/2016 12:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:16 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 12:38 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:06 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:26 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:18 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40157**

Sample ID:	MB-40157	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	PBS	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695821

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	0.19	1.0									J
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40157	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	LCSS	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695822

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	27	5.0	25	0	107	74	119				
Antimony	25	1.0	25	0	98.8	79	114				
Arsenic	23	2.0	25	0	92.6	82	111				
Barium	24	10	25	0	94.2	83	113				
Beryllium	24	0.25	25	0	95.6	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40157

Sample ID:	LCS-40157	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	LCSS	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695822

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	92.9	82	113				
Calcium	230	50	250	0	91.1	81	116				
Chromium	25	0.50	25	0	99.1	85	113				
Cobalt	24	1.0	25	0	97.6	85	112				
Copper	26	5.0	25	0	104	81	117				
Iron	230	15	250	0	91.3	81	118				
Lead	24	5.0	25	0	97.5	81	112				
Magnesium	230	50	250	0	91.3	78	115				
Manganese	26	1.0	25	0	103	84	114				
Nickel	25	5.0	25	0	98.4	83	113				
Potassium	240	20	250	0	95.3	81	116				
Selenium	25	2.0	25	0	99.5	78	111				
Silver	23	1.0	25	0	93.5	82	112				
Sodium	230	50	250	0	93.6	83	118				
Vanadium	24	2.5	25	0	95.9	82	114				
Zinc	24	5.0	25	0	95.6	82	113				

Sample ID:	1606389-005BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	BG01-SB02-05MS1	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695824

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9,000	3.7	18	9,000	82.5	74	119				
Antimony	19	0.73	18	2.3	89.9	79	114				
Arsenic	17	1.5	18	1.7	85.1	82	111				
Barium	39	7.3	18	25	75.3	83	113				Q
Beryllium	17	0.18	18	0.023	90.8	83	113				
Cadmium	17	0.18	18	0	90.1	82	113				
Calcium	850	37	180	530	173	81	116				Q
Chromium	30	0.37	18	15	84.2	85	113				Q
Cobalt	18	0.73	18	2.3	85.9	85	112				
Copper	38	3.7	18	21	92.1	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40157

Sample ID: **1606389-005BMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/15/2016** RunNo: **87363**

Client ID: **BG01-SB02-05MS1** Batch ID: **40157** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/13/2016** SeqNo: **1695824**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	5,700	11	180	5,900	-112	81	118				JQ
Lead	19	3.7	18	3.3	85.6	81	112				
Magnesium	1,900	37	180	1,700	61.4	78	115				JQ
Manganese	110	0.73	18	100	52.5	84	114				Q
Nickel	23	3.7	18	6.8	90.5	83	113				
Potassium	1,100	15	180	960	92.3	81	116				
Selenium	15	1.5	18	0	84.2	78	111				
Silver	16	0.73	18	0	89.8	82	112				
Sodium	250	37	180	67	101	83	118				
Vanadium	33	1.8	18	19	75.9	82	114				Q
Zinc	30	3.7	18	16	75.8	82	113				Q

Sample ID: **1606389-005BMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/15/2016** RunNo: **87363**

Client ID: **BG01-SB02-05SD1** Batch ID: **40157** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/13/2016** SeqNo: **1695825**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9,000	3.7	18	9,000	26.9	74	119	9,000	0.113	20	Q
Antimony	19	0.74	18	2.3	91.8	79	114	19	2.42	20	
Arsenic	18	1.5	18	1.7	86.5	82	111	17	2.01	20	
Barium	40	7.4	18	25	79.4	83	113	39	2.15	20	Q
Beryllium	17	0.18	18	0.023	91.0	83	113	17	0.848	20	
Cadmium	17	0.18	18	0	90.3	82	113	17	0.905	20	
Calcium	750	37	180	530	118	81	116	850	12.4	20	Q
Chromium	31	0.37	18	15	88.7	85	113	30	3.08	20	
Cobalt	19	0.74	18	2.3	87.5	85	112	18	2.23	20	
Copper	38	3.7	18	21	93.0	81	117	38	0.717	20	
Iron	5,600	11	180	5,900	-202	81	118	5,700	2.99	20	JQ
Lead	20	3.7	18	3.3	89.0	81	112	19	3.81	20	
Magnesium	1,800	37	180	1,700	38.8	78	115	1,900	2.22	20	Q
Manganese	110	0.74	18	100	47.4	84	114	110	0.791	20	Q
Nickel	24	3.7	18	6.8	92.7	83	113	23	2.15	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40157

Sample ID:	1606389-005BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87363
Client ID:	BG01-SB02-05SD1	Batch ID:	40157	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695825

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,100	15	180	960	94.1	81	116	1,100	0.390	20	
Selenium	16	1.5	18	0	89.2	78	111	15	6.45	20	
Silver	17	0.74	18	0	90.8	82	112	16	1.82	20	
Sodium	250	37	180	67	96.4	83	118	250	2.77	20	
Vanadium	33	1.8	18	19	76.2	82	114	33	0.457	20	Q
Zinc	30	3.7	18	16	76.8	82	113	30	0.884	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40172**

Sample ID:	MB-40172	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87532
Client ID:	PBS	Batch ID:	40172	TestNo:	SW8270C	SW3550C		Analysis Date:	6/26/2016	SeqNo:	1712981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benz(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									UY
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	16		16.58		94.0	46	115				
Surr: Nitrobenzene-d5	17		16.58		102	44	125				
Surr: Terphenyl-d14	19		16.58		113	58	133				

Sample ID:	LCS-40172	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87532
Client ID:	LCSS	Batch ID:	40172	TestNo:	SW8270C	SW3550C		Analysis Date:	6/26/2016	SeqNo:	1712982

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.012	0.00066	0.013	0	93.0	43	111				
2-Methylnaphthalene	0.014	0.00066	0.013	0	103	39	114				
Acenaphthene	0.013	0.00066	0.013	0	101	44	111				
Acenaphthylene	0.014	0.00066	0.013	0	104	39	116				
Anthracene	0.013	0.00066	0.013	0	100	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40172**

Sample ID:	LCS-40172	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	87532
Client ID:	LCSS	Batch ID:	40172	TestNo:	SW8270C	SW3550C		Analysis Date:	6/26/2016	SeqNo:	1712982

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.016	0.00066	0.013	0	119	54	122				
Benzo(a)pyrene	0.013	0.00066	0.013	0	96.0	50	125				
Benzo(b)fluoranthene	0.015	0.00066	0.013	0	113	53	128				
Benzo(g,h,i)perylene	0.017	0.00066	0.013	0	130	49	127				QY
Benzo(k)fluoranthene	0.013	0.00066	0.013	0	102	56	123				
Chrysene	0.013	0.00066	0.013	0	99.0	57	118				
Dibenzo(a,h)anthracene	0.015	0.00066	0.013	0	112	50	129				
Fluoranthene	0.013	0.00066	0.013	0	100	55	119				
Fluorene	0.014	0.00066	0.013	0	106	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00066	0.013	0	109	49	130				
Naphthalene	0.013	0.00066	0.013	0	98.8	38	111				
Phenanthrene	0.015	0.00066	0.013	0	112	49	113				
Pyrene	0.014	0.00066	0.013	0	109	55	117				
Surr: 2-Fluorobiphenyl	16		16.39		99.2	46	115				
Surr: Nitrobenzene-d5	15		16.39		92.5	44	125				
Surr: Terphenyl-d14	19		16.39		118	58	133				

Sample ID:	1606389-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/15/2016	RunNo:	87532
Client ID:	BG01-SB02-05MS1	Batch ID:	40172	TestNo:	SW8270C	SW3550C		Analysis Date:	6/26/2016	SeqNo:	1712988

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00075	0.015	0	88.5	43	111				
2-Methylnaphthalene	0.015	0.00075	0.015	0	98.7	39	114				
Acenaphthene	0.014	0.00075	0.015	0	96.9	44	111				
Acenaphthylene	0.015	0.00075	0.015	0	100	39	116				
Anthracene	0.015	0.00075	0.015	0	97.9	50	114				
Benz(a)anthracene	0.018	0.00075	0.015	0	120	54	122				
Benzo(a)pyrene	0.014	0.00075	0.015	0	94.4	50	125				
Benzo(b)fluoranthene	0.016	0.00075	0.015	0	104	53	128				
Benzo(g,h,i)perylene	0.017	0.00075	0.015	0	117	49	127				Y
Benzo(k)fluoranthene	0.015	0.00075	0.015	0	98.6	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40172**

Sample ID: **1606389-005AMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/15/2016** RunNo: **87532**

Client ID: **BG01-SB02-05MS1** Batch ID: **40172** TestNo: **SW8270C** **SW3550C** Analysis Date: **6/26/2016** SeqNo: **1712988**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.013	0.00075	0.015	0	88.5	57	118				
Dibenzo(a,h)anthracene	0.015	0.00075	0.015	0	102	50	129				
Fluoranthene	0.014	0.00075	0.015	0	93.1	55	119				
Fluorene	0.015	0.00075	0.015	0	104	47	114				
Indeno(1,2,3-cd)pyrene	0.015	0.00075	0.015	0	97.8	49	130				
Naphthalene	0.014	0.00075	0.015	0	94.6	38	111				
Phenanthrene	0.016	0.00075	0.015	0	107	49	113				
Pyrene	0.016	0.00075	0.015	0	104	55	117				
Surr: 2-Fluorobiphenyl	17		18.65		91.0	46	115				
Surr: Nitrobenzene-d5	19		18.65		102	44	125				
Surr: Terphenyl-d14	21		18.65		112	58	133				

Sample ID: **1606389-005AMSD** Samp Type: **MSD** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/15/2016** RunNo: **87532**

Client ID: **BG01-SB02-05SD1** Batch ID: **40172** TestNo: **SW8270C** **SW3550C** Analysis Date: **6/26/2016** SeqNo: **1712989**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00074	0.015	0	88.2	43	111	0.013	1.20	25	
2-Methylnaphthalene	0.014	0.00074	0.015	0	97.5	39	114	0.015	2.37	25	
Acenaphthene	0.014	0.00074	0.015	0	97.5	44	111	0.014	0.383	25	
Acenaphthylene	0.014	0.00074	0.015	0	97.7	39	116	0.015	3.65	25	
Anthracene	0.014	0.00074	0.015	0	98.1	50	114	0.015	1.04	25	
Benz(a)anthracene	0.017	0.00074	0.015	0	118	54	122	0.018	2.61	25	
Benzo(a)pyrene	0.014	0.00074	0.015	0	92.6	50	125	0.014	2.91	25	
Benzo(b)fluoranthene	0.015	0.00074	0.015	0	103	53	128	0.016	2.40	25	
Benzo(g,h,i)perylene	0.017	0.00074	0.015	0	115	49	127	0.014	22.6	25	Y
Benzo(k)fluoranthene	0.010	0.00074	0.015	0	67.9	56	123	0.014	33.1	25	R
Chrysene	0.013	0.00074	0.015	0	87.2	57	118	0.013	2.51	25	
Dibenzo(a,h)anthracene	0.015	0.00074	0.015	0	101	50	129	0.015	2.66	25	
Fluoranthene	0.014	0.00074	0.015	0	92.5	55	119	0.014	1.42	25	
Fluorene	0.015	0.00074	0.015	0	103	47	114	0.015	1.16	25	
Indeno(1,2,3-cd)pyrene	0.014	0.00074	0.015	0	96.8	49	130	0.015	2.15	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40172**

Sample ID:	**1606389-005AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/15/2016**	RunNo:	**87532**
Client ID:	**BG01-SB02-05SD1**	Batch ID:	**40172**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/26/2016**	SeqNo:	**1712989**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.014	0.00074	0.015	0	93.8	38	111	0.014	1.68	25	
Phenanthrene	0.016	0.00074	0.015	0	108	49	113	0.016	0.273	25	
Pyrene	0.015	0.00074	0.015	0	104	55	117	0.016	0.629	25	
Surr: 2-Fluorobiphenyl	17		18.48		89.6	46	115		0	25	
Surr: Nitrobenzene-d5	19		18.48		102	44	125		0	25	
Surr: Terphenyl-d14	20		18.48		107	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	**MB-40178**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/16/2016**	RunNo:	**87615**
Client ID:	**PBS**	Batch ID:	**40178**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/28/2016**	SeqNo:	**1701925**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00066	0.00066									U
2-Methylnaphthalene	0.00066	0.00066									U
Acenaphthene	0.00066	0.00066									U
Acenaphthylene	0.00066	0.00066									U
Anthracene	0.00066	0.00066									U
Benz(a)anthracene	0.00066	0.00066									U
Benzo(a)pyrene	0.00066	0.00066									U
Benzo(b)fluoranthene	0.00066	0.00066									U
Benzo(g,h,i)perylene	0.00066	0.00066									U
Benzo(k)fluoranthene	0.00066	0.00066									U
Chrysene	0.00066	0.00066									U
Dibenzo(a,h)anthracene	0.00066	0.00066									U
Fluoranthene	0.00066	0.00066									U
Fluorene	0.00066	0.00066									U
Indeno(1,2,3-cd)pyrene	0.00066	0.00066									U
Naphthalene	0.00066	0.00066									U
Phenanthrene	0.00066	0.00066									U
Pyrene	0.00066	0.00066									U
Surr: 2-Fluorobiphenyl	13		16.50		80.9	46	115				
Surr: Nitrobenzene-d5	14		16.50		84.4	44	125				
Surr: Terphenyl-d14	16		16.50		95.3	58	133				

Sample ID:	**LCS-40178**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/16/2016**	RunNo:	**87615**
Client ID:	**LCSS**	Batch ID:	**40178**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/28/2016**	SeqNo:	**1701926**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.012	0.00066	0.013	0	89.0	43	111				
2-Methylnaphthalene	0.013	0.00066	0.013	0	102	39	114				
Acenaphthene	0.013	0.00066	0.013	0	98.9	44	111				
Acenaphthylene	0.013	0.00066	0.013	0	97.5	39	116				
Anthracene	0.013	0.00066	0.013	0	99.7	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	LCS-40178	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	LCSS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701926

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.015	0.00066	0.013	0	117	54	122				
Benzo(a)pyrene	0.012	0.00066	0.013	0	92.2	50	125				
Benzo(b)fluoranthene	0.016	0.00066	0.013	0	124	53	128				
Benzo(g,h,i)perylene	0.014	0.00066	0.013	0	109	49	127				
Benzo(k)fluoranthene	0.012	0.00066	0.013	0	89.1	56	123				
Chrysene	0.013	0.00066	0.013	0	95.6	57	118				
Dibenzo(a,h)anthracene	0.015	0.00066	0.013	0	114	50	129				
Fluoranthene	0.013	0.00066	0.013	0	98.0	55	119				
Fluorene	0.014	0.00066	0.013	0	106	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00066	0.013	0	109	49	130				
Naphthalene	0.013	0.00066	0.013	0	95.8	38	111				
Phenanthrene	0.014	0.00066	0.013	0	107	49	113				
Pyrene	0.014	0.00066	0.013	0	105	55	117				
Surr: 2-Fluorobiphenyl	14		16.54		81.7	46	115				
Surr: Nitrobenzene-d5	14		16.54		84.1	44	125				
Surr: Terphenyl-d14	16		16.54		94.9	58	133				

Sample ID:	1606392-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701928

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00070	0.014	0	93.9	43	111				
2-Methylnaphthalene	0.015	0.00070	0.014	0	105	39	114				
Acenaphthene	0.014	0.00070	0.014	0	101	44	111				
Acenaphthylene	0.014	0.00070	0.014	0	103	39	116				
Anthracene	0.014	0.00070	0.014	0	102	50	114				
Benz(a)anthracene	0.017	0.00070	0.014	0	124	54	122				Q
Benzo(a)pyrene	0.013	0.00070	0.014	0	96.8	50	125				
Benzo(b)fluoranthene	0.015	0.00070	0.014	0	110	53	128				
Benzo(g,h,i)perylene	0.016	0.00070	0.014	0	113	49	127				
Benzo(k)fluoranthene	0.014	0.00070	0.014	0	104	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	1606392-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701928

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.014	0.00070	0.014	0	97.2	57	118				
Dibenzo(a,h)anthracene	0.016	0.00070	0.014	0	117	50	129				
Fluoranthene	0.014	0.00070	0.014	0	102	55	119				
Fluorene	0.015	0.00070	0.014	0	109	47	114				
Indeno(1,2,3-cd)pyrene	0.016	0.00070	0.014	0	114	49	130				
Naphthalene	0.014	0.00070	0.014	0	99.9	38	111				
Phenanthrene	0.016	0.00070	0.014	0	115	49	113				Q
Pyrene	0.015	0.00070	0.014	0	109	55	117				
Surr: 2-Fluorobiphenyl	15		17.40		83.7	46	115				
Surr: Nitrobenzene-d5	17		17.40		94.9	44	125				
Surr: Terphenyl-d14	17		17.40		96.9	58	133				

Sample ID:	1606392-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701929

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00070	0.014	0	91.1	43	111	0.013	3.44	25	
2-Methylnaphthalene	0.014	0.00070	0.014	0	102	39	114	0.015	3.60	25	
Acenaphthene	0.014	0.00070	0.014	0	100	44	111	0.014	1.47	25	
Acenaphthylene	0.014	0.00070	0.014	0	99.8	39	116	0.014	2.99	25	
Anthracene	0.014	0.00070	0.014	0	101	50	114	0.014	1.28	25	
Benz(a)anthracene	0.017	0.00070	0.014	0	120	54	122	0.017	3.59	25	
Benzo(a)pyrene	0.013	0.00070	0.014	0	95.3	50	125	0.013	1.93	25	
Benzo(b)fluoranthene	0.017	0.00070	0.014	0	126	53	128	0.015	13.6	25	
Benzo(g,h,i)perylene	0.015	0.00070	0.014	0	110	49	127	0.016	2.66	25	
Benzo(k)fluoranthene	0.013	0.00070	0.014	0	90.8	56	123	0.014	13.9	25	
Chrysene	0.013	0.00070	0.014	0	96.9	57	118	0.014	0.628	25	
Dibenzo(a,h)anthracene	0.016	0.00070	0.014	0	116	50	129	0.016	1.32	25	
Fluoranthene	0.014	0.00070	0.014	0	99.3	55	119	0.014	2.83	25	
Fluorene	0.015	0.00070	0.014	0	107	47	114	0.015	1.48	25	
Indeno(1,2,3-cd)pyrene	0.016	0.00070	0.014	0	112	49	130	0.016	1.82	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	**1606392-005AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/16/2016**	RunNo:	**87615**
Client ID:	**ZZZZZZ**	Batch ID:	**40178**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**6/28/2016**	SeqNo:	**1701929**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.013	0.00070	0.014	0	96.3	38	111	0.014	3.99	25	
Phenanthrene	0.016	0.00070	0.014	0	112	49	113	0.016	2.33	25	
Pyrene	0.015	0.00070	0.014	0	107	55	117	0.015	1.85	25	
Surr: 2-Fluorobiphenyl	14		17.35		82.3	46	115		0	25	
Surr: Nitrobenzene-d5	16		17.35		92.5	44	125		0	25	
Surr: Terphenyl-d14	17		17.35		97.4	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40215**

Sample ID:	MB-40215	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87156
Client ID:	PBS	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/1/2016	SeqNo:	1691220

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Selenium	2.0	2.0									U
Silver	0.063	1.0									J
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40215	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87156
Client ID:	LCSS	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/1/2016	SeqNo:	1691221

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	112	74	119				
Antimony	26	1.0	25	0	103	79	114				
Arsenic	25	2.0	25	0	101	82	111				
Barium	25	10	25	0	101	83	113				
Beryllium	25	0.25	25	0	102	83	113				
Cadmium	24	0.25	25	0	98.0	82	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40215

Sample ID:	LCS-40215	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87156
Client ID:	LCSS	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/1/2016	SeqNo:	1691221

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Calcium	250	50	250	0	99.5	81	116				
Chromium	26	0.50	25	0	102	85	113				
Cobalt	26	1.0	25	0	105	85	112				
Copper	27	5.0	25	0	109	81	117				
Iron	260	15	250	0	104	81	118				
Lead	26	5.0	25	0	103	81	112				
Magnesium	250	50	250	0	99.6	78	115				
Manganese	27	1.0	25	0	109	84	114				
Nickel	26	5.0	25	0	105	83	113				
Potassium	210	20	250	0	85.1	81	116				
Selenium	26	2.0	25	0	105	78	111				
Silver	25	1.0	25	0	98.2	82	112				
Sodium	230	50	250	0	93.2	83	118				
Vanadium	25	2.5	25	0	101	82	114				
Zinc	25	5.0	25	0	101	82	113				

Sample ID:	1606392-005BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87156
Client ID:	ZZZZZZ	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/1/2016	SeqNo:	1691223

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	4,200	3.4	17	4,100	1,040	74	119				Q
Antimony	18	0.68	17	1.9	96.8	79	114				
Arsenic	18	1.4	17	1.1	98.6	82	111				
Barium	29	6.8	17	10	109	83	113				
Beryllium	16	0.17	17	0.092	95.5	83	113				
Cadmium	16	0.17	17	0	95.3	82	113				
Calcium	680	34	170	490	112	81	116				
Chromium	24	0.34	17	6.7	98.2	85	113				
Cobalt	19	0.68	17	2.0	99.0	85	112				
Copper	34	3.4	17	16	103	81	117				
Iron	5,900	10	170	6,100	-83.6	81	118				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40215**

Sample ID: **1606392-005BMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87156**

Client ID: **ZZZZZZ** Batch ID: **40215** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/1/2016** SeqNo: **1691223**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	17	3.4	17	1.2	92.5	81	112				
Magnesium	1,100	34	170	920	90.2	78	115				
Manganese	130	0.68	17	120	77.5	84	114				Q
Nickel	20	3.4	17	3.7	98.3	83	113				
Selenium	16	1.4	17	0	91.5	78	111				
Silver	16	0.68	17	0	94.9	82	112				
Sodium	240	34	170	69	101	83	118				
Vanadium	26	1.7	17	9.2	97.7	82	114				
Zinc	23	3.4	17	6.7	92.9	82	113				

Sample ID: **1606392-005BMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87156**

Client ID: **ZZZZZZ** Batch ID: **40215** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/1/2016** SeqNo: **1691224**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	4,100	3.4	17	4,100	386	74	119	4,200	2.70	20	Q
Antimony	19	0.68	17	1.9	99.0	79	114	18	0.797	20	
Arsenic	19	1.4	17	1.1	104	82	111	18	3.77	20	
Barium	27	6.8	17	10	98.7	83	113	29	7.22	20	
Beryllium	17	0.17	17	0.092	97.1	83	113	16	0.376	20	
Cadmium	16	0.17	17	0	95.9	82	113	16	0.686	20	
Calcium	750	34	170	490	152	81	116	680	9.21	20	Q
Chromium	23	0.34	17	6.7	97.9	85	113	24	1.15	20	
Cobalt	18	0.68	17	2.0	96.1	85	112	19	3.76	20	
Copper	33	3.4	17	16	104	81	117	34	0.0909	20	
Iron	6,000	10	170	6,100	-25.6	81	118	5,900	1.67	20	JQ
Lead	17	3.4	17	1.2	94.5	81	112	17	0.790	20	
Magnesium	1,000	34	170	920	45.5	78	115	1,100	7.47	20	Q
Manganese	130	0.68	17	120	82.4	84	114	130	0.502	20	Q
Nickel	20	3.4	17	3.7	97.9	83	113	20	1.43	20	
Selenium	16	1.4	17	0	92.6	78	111	16	0.0795	20	
Silver	16	0.68	17	0	94.9	82	112	16	1.25	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40215

Sample ID:	1606392-005BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87156
Client ID:	ZZZZZZ	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/1/2016	SeqNo:	1691224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Sodium	230	34	170	69	95.0	83	118	240	5.06	20	
Vanadium	26	1.7	17	9.2	97.9	82	114	26	0.712	20	
Zinc	22	3.4	17	6.7	93.2	82	113	23	0.727	20	

Sample ID:	MB-40215	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87158
Client ID:	PBS	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691463

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nickel	5.0	5.0									U

Sample ID:	LCS-40215	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87158
Client ID:	LCSS	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691464

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nickel	24	5.0	25	0	95.5	83	113				

Sample ID:	1606392-005BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87158
Client ID:	ZZZZZZ	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691466

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	520	14	170	290	134	81	116				Q

Sample ID:	1606392-005BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87158
Client ID:	ZZZZZZ	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691468

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	530	14	170	350	107	81	116	520	1.72	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40340

Sample ID:	LCS-40340	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87151	
Client ID:	LCSS	Batch ID:	40340	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691865	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	9.9	0.20	10	0	98.9	83	118				G	

Sample ID:	MB-40340	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87151	
Client ID:	PBS	Batch ID:	40340	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691866	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	0.20	0.20									UG	

Sample ID:	1606389-005BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/5/2016	RunNo:	87151	
Client ID:	BG01-SB02-05MS1	Batch ID:	40340	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691868	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.0	0.14	7.2	0.070	95.1	83	118				G	

Sample ID:	1606389-005BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/5/2016	RunNo:	87151	
Client ID:	BG01-SB02-05SD1	Batch ID:	40340	TestNo:	SW6020A	SW3050B		Analysis Date:	7/6/2016	SeqNo:	1691869	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	6.7	0.15	7.3	0.070	90.5	83	118	7.0	3.63	20	G	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40379

Sample ID:	MB-40379	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	PBS	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694102

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	1606606-002BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	ZZZZZZ	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.0	0.14	7.1	0.16	97.0	83	118				

Sample ID:	1606606-002BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	ZZZZZZ	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694109

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.6	0.14	7.0	0.16	106	83	118	7.0	7.60	20	

Sample ID:	LCS-40379	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	LCSS	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694110

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	10	0.20	10	0	105	83	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40394**

Sample ID:	MB-40394	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/11/2016	RunNo:	87276
Client ID:	PBS	Batch ID:	40394	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1693989

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	LCS-40394	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/11/2016	RunNo:	87276
Client ID:	LCSS	Batch ID:	40394	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1693990

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	10	0.20	10	0	103	83	118				

Sample ID:	1606392-005BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/11/2016	RunNo:	87276
Client ID:	ZZZZZZ	Batch ID:	40394	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1693993

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.0	0.14	6.9	0.051	101	83	118				

Sample ID:	1606392-005BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/11/2016	RunNo:	87276
Client ID:	ZZZZZZ	Batch ID:	40394	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694000

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.8	0.14	7.0	0.051	96.4	83	118	7.0	3.87	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86681**

Sample ID:	**1606389-001B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/14/2016**	RunNo:	**86681**
Client ID:	**BG01-SS01-01LR1**	Batch ID:	**R86681**	TestNo:	**D2216**			Analysis Date:	**6/14/2016**	SeqNo:	**1681598**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	13	1.0						12.87	4.43	20	

Sample ID:	**1606392-002B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/14/2016**	RunNo:	**86681**
Client ID:	**ZZZZZZ**	Batch ID:	**R86681**	TestNo:	**D2216**			Analysis Date:	**6/14/2016**	SeqNo:	**1681618**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	15	1.0						14.96	0.598	20	

RTI Laboratories - Definitions and Acronyms

WO#: 1606389

Date Reported: 8/29/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606389

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	060116-01
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
FieldQC	–	–	TB	1	TB-SO-060916-01	06/09/16	0910	WQ	4	014	4											
H17-SB01	00	01	N	1	H17-SS01-01	↓	1340	SO	8	↓	4			1	1			1	1			
H17-SB02	00	01	N	1	H17-SS02-01	↓	1520	SO	8	↓	4			1	1			1	1			
H17-SB03	00	01	N	1	H17-SS03-01	↓	1425	SO	8	↓	4			1	1			1	1			
BG01-SB01	00	01	N	1	BG01-SS01-01	↓	1105	~~SO~~	2	↓							1		1			Matrix: SS 1
BG01-SB01	04	05	N	1	BG01-SB01-05	↓	1110	SO	2	↓							1		1			2
BG01-SB01	05	06	N	1	BG01-SB01-06	↓	1120	SO	2	↓							1		1			3

1. Relinquished By / Company	Amanda Martin AECOM	Date 06/10/16	Time 1400	1. Received By / Company	Transfer to FedEx	Date 06/10/16	Time 1400
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date 6/11/16	Time 10:3
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. 8105 0202 5979

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLE

Cooler: Blue Five
Seal ID: #014
Temp: 19 TB

00139

00152

Fed Express Package US Airbill

FedEx Tracking Number 8103 0202 5979

Form ID No. 0215

1 From

Date 06/16/2016

Sender's Name Amanda Martin Phone

Company

Address 1601 WILSON BLVD STE 900

City ARLINGTON State VA ZIP

Dept./Floor/Suite/Room

2 Your Internal Billing Reference

3 To

Recipient's Name KATHY GRIFFIN Phone 734 [redacted]

Company NTS LABORATORIES - ENV SCI DIV

Address 31623 GLENDALE STREET

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City LIVONIA State MI ZIP 48150

Hold Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0123659941

8103 0202 5979

4 Express Package Service * To most locations.

Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver

No Signature Required — Package may be left without obtaining a signature for delivery.

Direct Signature — Someone at recipient's address may sign for delivery.

Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

No Yes As per attached Shipper's Declaration Yes Shipper's Declaration not required Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. Cargo Aircraft Only

7 Payment Bill to:

Sender Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check

Enter FedEx Acct. No. or Credit Card No. below.

Total Packages Total Weight ____ lbs. Credit Card Auth.

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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FID 607958Z 10JUN16 WSHA 539C2/30BD/6A08

fedex.com 1.800.GoFedEx 1.800.463.3339

FedEx

Cooler #619 Cooler #6116-01

5979 06.11 A 12:00 1

49

1.800.463.3339

FedEx Saturday Delivery

15196Z REV 7/08 RRD

CUSTODY SEAL

DATE 6/16/16

SIGNATURE

QEC Quality Environmental Containers 800-255-3950 • 304-255-3900

48150 MI-US DTW

XO CFAA

PRIORITY OVERNIGHT

0215 TRK# 8103 0202 5979

Chain of Custody

1606389

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061016-02
Batch May16

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
BG01-SB02	00	01	N	1	BG01-SS02-01	06/09/16	0940	SS	2	015						1		1			4
BG01-SB02	04	05	N	1	BG01-SB02-05		0945	SO	2							1		1			5
BG01-SB02	04	05	MS	1	BG01-SB02-05MS		0945	SO	2							1		1			5
BG01-SB02	04	05	SD	1	BG01-SB02-05MSD		0945	SO	2							1		1			5
BG01-SB02	05	06	N	1	BG01-SB02-06		0950	SO	2							1		1			6
BG01-SB03	00	01	N	1	BG01-SS03-01		0915	SS	2							1		1			7
BG01-SB03	04	05	N	1	BG01-SB03-05		0920	SO	2							1		1			8
BG01-SB03	07	08	N	1	BG01-SB03-08		0925	SO	2							1		1			9
BG01-SB04	00	01	N	1	BG01-SS04-01		1140	SS	2							1		1			10
BG01-SB04	03	04	N	1	BG01-SB04-04		1150	SO	2							1		1			11
BG01-SB04	04	05	N	1	BG01-SB04-05		1145	SO	2							1		1			12
BG01-SB04	04	05	FD	1	BG01-SB04-05DUP		1145	SO	2							1		1		13	SA CODE: FD
BG01-SB05	00	01	N	1	BG01-SS05-01		1050	SS	2							1		1		14	LOC ID: BG01-SS05

		Date	Time		Date	Time
1. Relinquished By / Company	Amanda Martin AECOM	06/10/16	1400	1. Received By / Company	Transfer to FedEx	06/10/16	1400
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date 6/11/16	Time 10:30
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. 810320205898

SOIL WATER SAMPLES

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

Cooler ED:
Second Ib: 4.0 K
Temp 3.4 TB

Chain of Custody

16063589

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 0610/16-02
Batch May16

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
BG01-SS06	00	01	N	1	BG01-SS06-01	06/09/16	1255	SS	2	05						1		1			15
BG01-SS07	00	01	N	1	BG01-SS07-01	"	1225	SS	2	"						1		1			16
BG01-SS07	00	01	FD	1	BG01-SS07-01DUP	"	1225	SS	2	"						1		1			SA code: FD 17
BG01-SS08	00	01	N	1	BG01-SS08-01	"	1210	SS	2	"						1		1			18

Amanda Martin

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/10/16	Time: 1400	1. Received By / Company: Transfer to FedEx	Date: 6/10/16	Time: 1400
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date: 6/14/16	Time: 10:30
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No.: 8103 0202 5898

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

~~WATER~~ SAMPLES
SOIL

Cooler ID: Second ID: #015
Temp: 3.4 °C

00152

FedEx Express — Package US Airbill

FedEx Tracking Number 8103 0202 5898

Form ID No. 0215

Cooler #015 COC # 061616-02

1 From

Date 6/16/16

Sender's Name Amanda Martin Phone

Company GLCOM GSP

Address

Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name Phone 734 292-210

Company ENV SCI DIV

Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City State MI ZIP 48150

Hold Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8103 0202 5898

4 Express Package Service * To most locations. Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected. [X]
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available. [X]

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* | FedEx Pak* | FedEx Box | FedEx Tube | Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

URGENT

- Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- No Signature Required — Package may be left without obtaining a signature for delivery.
- Direct Signature — Someone at recipient's address may sign for delivery.
- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

No | Yes As per attached Shipper's Declaration. | Yes Shipper's Declaration not required. | Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Sender Acct. No. in Section 1 will be billed. | Recipient | Third Party | Credit Card | Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

611

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fedex.com 1.800.GoFedEx 1.800.463.3339

CUSTODY SEAL

DATE 6/16/16

SIGNATURE

QEC Quality Environmental Containers 800-255-3950 • 304-255-3900

FedEx Saturday Delivery

151967 REV 7/08 RRD

48150 MI-US

PRIORITY OVERNIGHT

TRK# 8103 0202 5898 0215

XO CFAA

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Tuesday, August 30, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606392

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606392-001A	BG02-SS01-01		6/10/2016 9:35 AM	6/11/2016 10:30 AM	Soil
1606392-001B	BG02-SS01-01		6/10/2016 9:35 AM	6/11/2016 10:30 AM	Soil
1606392-002A	BG02-SB01-05		6/10/2016 9:40 AM	6/11/2016 10:30 AM	Soil
1606392-002B	BG02-SB01-05		6/10/2016 9:40 AM	6/11/2016 10:30 AM	Soil
1606392-003A	BG02-SB01-06		6/10/2016 9:40 AM	6/11/2016 10:30 AM	Soil
1606392-003B	BG02-SB01-06		6/10/2016 9:40 AM	6/11/2016 10:30 AM	Soil
1606392-004A	BG02-SS02-01		6/10/2016 10:05 AM	6/11/2016 10:30 AM	Soil
1606392-004B	BG02-SS02-01		6/10/2016 10:05 AM	6/11/2016 10:30 AM	Soil
1606392-005A	BG02-SB02-05		6/10/2016 10:15 AM	6/11/2016 10:30 AM	Soil
1606392-005B	BG02-SB02-05		6/10/2016 10:15 AM	6/11/2016 10:30 AM	Soil
1606392-006A	BG02-SB02-10		6/10/2016 10:20 AM	6/11/2016 10:30 AM	Soil
1606392-006B	BG02-SB02-10		6/10/2016 10:20 AM	6/11/2016 10:30 AM	Soil
1606392-007A	BG02-SS03-01		6/10/2016 9:05 AM	6/11/2016 10:30 AM	Soil
1606392-007B	BG02-SS03-01		6/10/2016 9:05 AM	6/11/2016 10:30 AM	Soil
1606392-008A	BG02-SB03-05		6/10/2016 9:10 AM	6/11/2016 10:30 AM	Soil
1606392-008B	BG02-SB03-05		6/10/2016 9:10 AM	6/11/2016 10:30 AM	Soil
1606392-009A	BG02-SB03-10		6/10/2016 9:15 AM	6/11/2016 10:30 AM	Soil
1606392-009B	BG02-SB03-10		6/10/2016 9:15 AM	6/11/2016 10:30 AM	Soil
1606392-010A	BG02-SS04-01		6/10/2016 8:45 AM	6/11/2016 10:30 AM	Soil
1606392-010B	BG02-SS04-01		6/10/2016 8:45 AM	6/11/2016 10:30 AM	Soil
1606392-011A	BG02-SB04-04		6/10/2016 8:55 AM	6/11/2016 10:30 AM	Soil
1606392-011B	BG02-SB04-04		6/10/2016 8:55 AM	6/11/2016 10:30 AM	Soil
1606392-012A	BG02-SB04-05		6/10/2016 8:50 AM	6/11/2016 10:30 AM	Soil
1606392-012B	BG02-SB04-05		6/10/2016 8:50 AM	6/11/2016 10:30 AM	Soil
1606392-013A	BG02-SB04-05 DUP		6/10/2016 8:50 AM	6/11/2016 10:30 AM	Soil
1606392-013B	BG02-SB04-05 DUP		6/10/2016 8:50 AM	6/11/2016 10:30 AM	Soil
1606392-014A	BG02-SS05-01		6/10/2016 9:55 AM	6/11/2016 10:30 AM	Soil
1606392-014B	BG02-SS05-01		6/10/2016 9:55 AM	6/11/2016 10:30 AM	Soil
1606392-015A	BG02-SS06-01		6/10/2016 9:25 AM	6/11/2016 10:30 AM	Soil
1606392-015B	BG02-SS06-01		6/10/2016 9:25 AM	6/11/2016 10:30 AM	Soil
1606392-016A	BG02-SS07-01		6/10/2016 9:00 AM	6/11/2016 10:30 AM	Soil
1606392-016B	BG02-SS07-01		6/10/2016 9:00 AM	6/11/2016 10:30 AM	Soil
1606392-017A	BG02-SS08-01		6/10/2016 8:40 AM	6/11/2016 10:30 AM	Soil
1606392-017B	BG02-SS08-01		6/10/2016 8:40 AM	6/11/2016 10:30 AM	Soil
1606392-018A	TB-SO-060916-01		6/9/2016 9:10 AM	6/11/2016 10:30 AM	Soil
1606392-018B	TB-SO-060916-01		6/9/2016 9:10 AM	6/11/2016 10:30 AM	Soil
1606392-018C	TB-SO-060916-01		6/9/2016 9:10 AM	6/11/2016 10:30 AM	Soil
1606392-019A	H17-SS01-01		6/9/2016 1:40 PM	6/11/2016 10:30 AM	Soil
1606392-019B	H17-SS01-01		6/9/2016 1:40 PM	6/11/2016 10:30 AM	Soil
1606392-019C	H17-SS01-01		6/9/2016 1:40 PM	6/11/2016 10:30 AM	Soil
1606392-019D	H17-SS01-01		6/9/2016 1:40 PM	6/11/2016 10:30 AM	Soil
1606392-019E	H17-SS01-01		6/9/2016 1:40 PM	6/11/2016 10:30 AM	Soil
1606392-019F	H17-SS01-01		6/9/2016 1:40 PM	6/11/2016 10:30 AM	Soil
1606392-019G	H17-SS01-01		6/9/2016 1:40 PM	6/11/2016 10:30 AM	Soil
1606392-020A	H17-SS02-01		6/9/2016 3:20 PM	6/11/2016 10:30 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606392-020B	H17-SS02-01		6/9/2016 3:20 PM	6/11/2016 10:30 AM	Soil
1606392-020C	H17-SS02-01		6/9/2016 3:20 PM	6/11/2016 10:30 AM	Soil
1606392-020D	H17-SS02-01		6/9/2016 3:20 PM	6/11/2016 10:30 AM	Soil
1606392-020E	H17-SS02-01		6/9/2016 3:20 PM	6/11/2016 10:30 AM	Soil
1606392-020F	H17-SS02-01		6/9/2016 3:20 PM	6/11/2016 10:30 AM	Soil
1606392-020G	H17-SS02-01		6/9/2016 3:20 PM	6/11/2016 10:30 AM	Soil
1606392-021A	H17-SS03-01		6/9/2016 2:25 PM	6/11/2016 10:30 AM	Soil
1606392-021B	H17-SS03-01		6/9/2016 2:25 PM	6/11/2016 10:30 AM	Soil
1606392-021C	H17-SS03-01		6/9/2016 2:25 PM	6/11/2016 10:30 AM	Soil
1606392-021D	H17-SS03-01		6/9/2016 2:25 PM	6/11/2016 10:30 AM	Soil
1606392-021E	H17-SS03-01		6/9/2016 2:25 PM	6/11/2016 10:30 AM	Soil
1606392-021F	H17-SS03-01		6/9/2016 2:25 PM	6/11/2016 10:30 AM	Soil
1606392-021G	H17-SS03-01		6/9/2016 2:25 PM	6/11/2016 10:30 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical report revised 9/16/16: Benzene LOQ reporting limits updated for 1606392-018A, 019B, -020B, and -021B.

Analytical report revised 8/30/2016: Surrogate recovery for sample 16063920-020 for SIM PNA analysis was recalculated for 2-Fluorobiphenyl.

Analytical Report revised 8/11/2016: Compound 3,3´-Dichlorobenzidine was missing in the SVOC analysis. Also Benzoic Acid was missing in the QC Summary report for the LCS, MS and MSD.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A
- Polychlorinated Biphenyls - 8082A
- Volatile Organic Compounds - 8260C-ME
- Volatile Organic Compounds - 8260C
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM

Samples 1606392-019A, -020A, and -021A were initially analyzed twice for Low-Level Volatile Organic Compounds. Responses for internal standards exceeded method specified criteria. Sample re-analyses were performed using the methanol preserved vials. The results for these samples were reported from the methanol vials with associated elevated reporting limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87156, Batch ID 40215:
- Sample 1606392-005BMS: Recoveries for Aluminum, Iron and Manganese exceeded control limits.
- Sample 1606392-005BMSD: Recoveries for Aluminum, Calcium, Iron, Magnesium and Manganese exceeded control limits.

Analytical Comments for Test SW_8260S, Analytical Run No 86786, Batch ID R86786:
- Sample VOA11B ICV 061616: ICV results for Chloroethane exceeded the 20% criteria.
- Sample VOA11B CCV 062016: CCV results for Carbon tetrachloride and Chloroethane exceeded the 20% criteria.
- Sample VOA11B LCS 06201: Recovery for Bromoform exceeded the control limits.
- Sample VOA11B CCVE 062016: Ending CCV results for Chloroethane exceeded the 50% criteria.
- Sample 1606522-007A MS: Spike recoveries for Chlorodibromomethane, Chloroethane, cis-1,3-Dichloropropene and Styrene were outside the control limits.
- Sample 1606522-007A MSD: Spike recoveries for Chloroethane, cis-1,3-Dichloropropene and Styrene were outside the control limits.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86694, Batch ID R86694:
- Sample VOA11B CCV 061516: CCV results for acetone and vinyl acetate exceed the 20% criteria.
- Sample VOA11B MBLK 0615: Acetone and Methylene Chloride detected in MBLK at or above 1/2 the LOQ.
- Sample VOA11B LCS 06151: Acetone and Methylene chloride exceed limits.
- Sample VOA11B LCSD 0615: Acetone and Methylene chloride exceed limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86814, Batch ID R86814:
- Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
- Sample CCV S8 062016: CCV results for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Benzoic acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine, and Pentachlorophenol exceeded control limit.
- Sample CCVE S8 062016: Ending CCV results for Benzoic acid exceeded control limit.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87637, Batch ID 40193:
- Sample LCS-40193: LCS results for Benz(a)anthracene, Fluorene Phenanthrene and Pyrene exceeded QC limits.
- Sample 1606392-005A MS: Spike recoveries for Benz(a)anthracene and Phenanthrene were slightly above the control limits.
- Sample 1606425-005A MS: Spike recoveries for 1-Methylnapthalene, 2-Methylnaphthalene and Naphthalene were outside the control limits. Surrogate Nitrobenzene-d5 was outside the control limits.
- Sample 1606425-005A MSD: Spike recovery for Phenanthrene was outside the control limits. RPD for 1-Methylnapthalene, 2-Methylnaphthalene and Naphthalene were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87589, Batch ID 40178:
Sample MB-40178CCB: 2-Methylnaphthalene, Naphthalene and Phenanthrene detected in method blank at or above 1/2 the LOQ.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87749, Batch ID 40233:
Sample MB-40233, Batch ID 40233 : 2-Fluorobiphenyl exceeded QC limits
Sample LCS-40233, Batch ID 40233 : 2-Fluorobiphenyl exceeded QC limits

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87749, Batch ID R87749:
Sample CCV SIM 070516S7: CCV result for Benzo(b)fluoranthene exceeded QC limit.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87749, Batch ID 40193:
Sample 1606392-020D, Batch ID 40193 : 2-Fluorobiphenyl exceeded QC limits

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87615, Batch ID 87615:
Sample CCVE SIM 062716S7, Batch ID R87615 : Ending CCV results for Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Dibenz(a,h) anthracene and Indeno(1,2,3-cd)pyrene exceeded the 50% criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87749, Batch ID 87749:
Sample CCV SIM 070516S7, Batch ID R87749 : CCV result for Benzo(b)fluoranthene exceeded QC limit. 2-Fluorobiphenyl exceeded QC limits..
Analytical Comments for 8270D SIM, Sample 1606392-020D, Batch ID 40193 : 2-Fluorobiphenyl exceeded QC limits

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 9:35:00 AM
Project: Camp Hero
Lab ID: 1606392-001 **Matrix:** Soil
Client Sample ID: BG02-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,200		54	140	360	mg/Kg-dry	100	7/1/2016 2:27 PM
Antimony	1.6		0.27	0.36	0.72	mg/Kg-dry	1	7/1/2016 12:40 PM
Arsenic	1.9		0.52	0.72	1.4	mg/Kg-dry	1	7/1/2016 12:40 PM
Barium	16		0.21	3.6	7.2	mg/Kg-dry	1	7/1/2016 12:40 PM
Beryllium	0.25		0.0091	0.036	0.18	mg/Kg-dry	1	7/1/2016 12:40 PM
Cadmium	0.033	J	0.024	0.036	0.18	mg/Kg-dry	1	7/1/2016 12:40 PM
Calcium	310		2.1	7.2	36	mg/Kg-dry	1	7/1/2016 12:40 PM
Chromium	9.3		0.059	0.29	0.36	mg/Kg-dry	1	7/1/2016 12:40 PM
Cobalt	1.8		0.065	0.18	0.72	mg/Kg-dry	1	7/1/2016 12:40 PM
Copper	20		0.30	0.72	3.6	mg/Kg-dry	1	7/1/2016 12:40 PM
Iron	8,300		23	36	110	mg/Kg-dry	10	7/1/2016 2:07 PM
Lead	3.0	J	0.45	0.72	3.6	mg/Kg-dry	1	7/1/2016 12:40 PM
Magnesium	780		2.5	3.6	36	mg/Kg-dry	1	7/1/2016 12:40 PM
Manganese	76		0.13	0.18	0.72	mg/Kg-dry	1	7/1/2016 12:40 PM
Nickel	4.5		0.20	0.72	3.6	mg/Kg-dry	1	7/1/2016 12:40 PM
Potassium	240		1.7	7.2	14	mg/Kg-dry	1	7/5/2016 5:19 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/1/2016 12:40 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/1/2016 12:40 PM
Sodium	53		1.5	3.6	36	mg/Kg-dry	1	7/1/2016 12:40 PM
Vanadium	14		0.091	0.72	1.8	mg/Kg-dry	1	7/1/2016 12:40 PM
Zinc	12		0.28	0.36	3.6	mg/Kg-dry	1	7/1/2016 12:40 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.095	J	0.036	0.037	0.15	mg/Kg-dry	10	7/15/2016 3:13 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
2-Methylnaphthalene	0.00081		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Benz(a)anthracene	0.00090		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Benzo(a)pyrene	0.00076		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Benzo(b)fluoranthene	0.0014		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Benzo(g,h,i)perylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Benzo(k)fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Chrysene	0.00087		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Fluoranthene	0.0018		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Fluorene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Indeno(1,2,3-cd)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Naphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Phenanthrene	0.0012		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM
Pyrene	0.0017		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/28/2016 6:31 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:35:00 AM
Project:	Camp Hero		
Lab ID:	1606392-001	**Matrix:**	Soil
Client Sample ID:	BG02-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	61.5			46-115		%Rec	1	6/28/2016 6:31 AM
Surr: Nitrobenzene-d5	69.2			44-125		%Rec	1	6/28/2016 6:31 AM
Surr: Terphenyl-d14	88.1			58-133		%Rec	1	6/28/2016 6:31 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.8		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 9:40:00 AM
Project: Camp Hero
Lab ID: 1606392-002 **Matrix:** Soil
Client Sample ID: BG02-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,900		57	150	380	mg/Kg-dry	100	7/1/2016 2:29 PM
Antimony	2.4		0.28	0.38	0.75	mg/Kg-dry	1	7/1/2016 12:41 PM
Arsenic	2.0		0.55	0.75	1.5	mg/Kg-dry	1	7/1/2016 12:41 PM
Barium	15		0.22	3.8	7.5	mg/Kg-dry	1	7/1/2016 12:41 PM
Beryllium	0.13	J	0.0096	0.038	0.19	mg/Kg-dry	1	7/1/2016 12:41 PM
Cadmium	0.038	U	0.025	0.038	0.19	mg/Kg-dry	1	7/1/2016 12:41 PM
Calcium	490		2.2	7.5	38	mg/Kg-dry	1	7/1/2016 12:41 PM
Chromium	9.2		0.062	0.30	0.38	mg/Kg-dry	1	7/1/2016 12:41 PM
Cobalt	2.6		0.068	0.19	0.75	mg/Kg-dry	1	7/1/2016 12:41 PM
Copper	22		0.31	0.75	3.8	mg/Kg-dry	1	7/1/2016 12:41 PM
Iron	7,800		24	38	110	mg/Kg-dry	10	7/1/2016 2:08 PM
Lead	1.4	J	0.47	0.75	3.8	mg/Kg-dry	1	7/1/2016 12:41 PM
Magnesium	1,300		2.6	3.8	38	mg/Kg-dry	1	7/1/2016 12:41 PM
Manganese	120		0.14	0.19	0.75	mg/Kg-dry	1	7/1/2016 12:41 PM
Nickel	4.8		0.21	0.75	3.8	mg/Kg-dry	1	7/1/2016 12:41 PM
Potassium	570		1.8	7.5	15	mg/Kg-dry	1	7/5/2016 5:20 PM
Selenium	1.1	U	0.88	1.1	1.5	mg/Kg-dry	1	7/1/2016 12:41 PM
Silver	0.19	U	0.062	0.19	0.75	mg/Kg-dry	1	7/1/2016 12:41 PM
Sodium	85		1.5	3.8	38	mg/Kg-dry	1	7/1/2016 12:41 PM
Vanadium	11		0.096	0.75	1.9	mg/Kg-dry	1	7/1/2016 12:41 PM
Zinc	9.6		0.29	0.38	3.8	mg/Kg-dry	1	7/1/2016 12:41 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.056	J	0.037	0.038	0.15	mg/Kg-dry	10	7/12/2016 11:23 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
2-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Acenaphthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Acenaphthylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Benz(a)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Benzo(a)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Benzo(b)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Benzo(g,h,i)perylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Benzo(k)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Chrysene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Dibenzo(a,h)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Fluorene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Indeno(1,2,3-cd)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Naphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Phenanthrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM
Pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 6:59 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606392-002	**Matrix:**	Soil
Client Sample ID:	BG02-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	86.7			46-115		%Rec	1	6/28/2016 6:59 AM
Surr: Nitrobenzene-d5	102			44-125		%Rec	1	6/28/2016 6:59 AM
Surr: Terphenyl-d14	104			58-133		%Rec	1	6/28/2016 6:59 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/14/2016 12:45 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606392-003	**Matrix:**	Soil
Client Sample ID:	BG02-SB01-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,600		57	150	380	mg/Kg-dry	100	7/1/2016 2:30 PM
Antimony	2.1		0.28	0.38	0.76	mg/Kg-dry	1	7/1/2016 12:42 PM
Arsenic	1.7		0.55	0.76	1.5	mg/Kg-dry	1	7/1/2016 12:42 PM
Barium	16		0.22	3.8	7.6	mg/Kg-dry	1	7/1/2016 12:42 PM
Beryllium	0.13	J	0.0096	0.038	0.19	mg/Kg-dry	1	7/1/2016 12:42 PM
Cadmium	0.035	J	0.025	0.038	0.19	mg/Kg-dry	1	7/1/2016 12:42 PM
Calcium	430		2.2	7.6	38	mg/Kg-dry	1	7/1/2016 12:42 PM
Chromium	8.8		0.062	0.30	0.38	mg/Kg-dry	1	7/1/2016 12:42 PM
Cobalt	2.2		0.068	0.19	0.76	mg/Kg-dry	1	7/1/2016 12:42 PM
Copper	23		0.31	0.76	3.8	mg/Kg-dry	1	7/1/2016 12:42 PM
Iron	9,200		24	38	110	mg/Kg-dry	10	7/1/2016 2:10 PM
Lead	1.8	J	0.47	0.76	3.8	mg/Kg-dry	1	7/1/2016 12:42 PM
Magnesium	850		2.6	3.8	38	mg/Kg-dry	1	7/1/2016 12:42 PM
Manganese	390		1.4	1.9	7.6	mg/Kg-dry	10	7/1/2016 2:10 PM
Nickel	4.0		0.21	0.76	3.8	mg/Kg-dry	1	7/1/2016 12:42 PM
Potassium	360		1.8	7.6	15	mg/Kg-dry	1	7/5/2016 5:22 PM
Selenium	1.1	U	0.88	1.1	1.5	mg/Kg-dry	1	7/1/2016 12:42 PM
Silver	0.19	U	0.062	0.19	0.76	mg/Kg-dry	1	7/1/2016 12:42 PM
Sodium	69		1.5	3.8	38	mg/Kg-dry	1	7/1/2016 12:42 PM
Vanadium	13		0.096	0.76	1.9	mg/Kg-dry	1	7/1/2016 12:42 PM
Zinc	7.6		0.29	0.38	3.8	mg/Kg-dry	1	7/1/2016 12:42 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.054	J	0.035	0.036	0.14	mg/Kg-dry	10	7/12/2016 11:24 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
2-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Benz(a)anthracene	0.0046		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Benzo(a)pyrene	0.0038		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Benzo(b)fluoranthene	0.0064		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Benzo(g,h,i)perylene	0.0031		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Benzo(k)fluoranthene	0.0022		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Chrysene	0.0036		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Fluoranthene	0.0093		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Indeno(1,2,3-cd)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Naphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Phenanthrene	0.0058		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM
Pyrene	0.0087		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/28/2016 7:28 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606392-003	**Matrix:**	Soil
Client Sample ID:	BG02-SB01-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	74.4			46-115		%Rec	1	6/28/2016 7:28 AM
Surr: Nitrobenzene-d5	85.5			44-125		%Rec	1	6/28/2016 7:28 AM
Surr: Terphenyl-d14	92.1			58-133		%Rec	1	6/28/2016 7:28 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 10:05:00 AM
Project: Camp Hero
Lab ID: 1606392-004 **Matrix:** Soil
Client Sample ID: BG02-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,300		54	140	360	mg/Kg-dry	100	7/1/2016 2:31 PM
Antimony	1.3		0.27	0.36	0.72	mg/Kg-dry	1	7/1/2016 12:43 PM
Arsenic	1.1	J	0.52	0.72	1.4	mg/Kg-dry	1	7/1/2016 12:43 PM
Barium	15		0.21	3.6	7.2	mg/Kg-dry	1	7/1/2016 12:43 PM
Beryllium	0.20		0.0091	0.036	0.18	mg/Kg-dry	1	7/1/2016 12:43 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/1/2016 12:43 PM
Calcium	320		2.1	7.2	36	mg/Kg-dry	1	7/1/2016 12:43 PM
Chromium	7.7		0.059	0.29	0.36	mg/Kg-dry	1	7/1/2016 12:43 PM
Cobalt	1.5		0.065	0.18	0.72	mg/Kg-dry	1	7/1/2016 12:43 PM
Copper	17		0.30	0.72	3.6	mg/Kg-dry	1	7/1/2016 12:43 PM
Iron	7,300		22	36	110	mg/Kg-dry	10	7/1/2016 2:11 PM
Lead	2.7	J	0.45	0.72	3.6	mg/Kg-dry	1	7/1/2016 12:43 PM
Magnesium	630		2.5	3.6	36	mg/Kg-dry	1	7/1/2016 12:43 PM
Manganese	76		0.13	0.18	0.72	mg/Kg-dry	1	7/1/2016 12:43 PM
Nickel	3.8		0.20	0.72	3.6	mg/Kg-dry	1	7/1/2016 12:43 PM
Potassium	220		1.7	7.2	14	mg/Kg-dry	1	7/5/2016 5:23 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/1/2016 12:43 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/1/2016 12:43 PM
Sodium	53		1.5	3.6	36	mg/Kg-dry	1	7/1/2016 12:43 PM
Vanadium	12		0.091	0.72	1.8	mg/Kg-dry	1	7/1/2016 12:43 PM
Zinc	10		0.28	0.36	3.6	mg/Kg-dry	1	7/1/2016 12:43 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.056	J	0.035	0.036	0.14	mg/Kg-dry	10	7/12/2016 11:25 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
2-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Benz(a)anthracene	0.0041		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Benzo(a)pyrene	0.0035		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Benzo(b)fluoranthene	0.0057		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Benzo(g,h,i)perylene	0.0024		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Benzo(k)fluoranthene	0.0022		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Chrysene	0.0036		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Fluoranthene	0.0080		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Fluorene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Indeno(1,2,3-cd)pyrene	0.0021		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Naphthalene	0.00074		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Phenanthrene	0.0048		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM
Pyrene	0.0074		0.00072	0.00072	0.00072	mg/Kg-dry	1	6/28/2016 7:56 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 10:05:00 AM
Project:	Camp Hero		
Lab ID:	1606392-004	**Matrix:**	Soil
Client Sample ID:	BG02-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	77.5			46-115		%Rec	1	6/28/2016 7:56 AM
Surr: Nitrobenzene-d5	89.8			44-125		%Rec	1	6/28/2016 7:56 AM
Surr: Terphenyl-d14	95.7			58-133		%Rec	1	6/28/2016 7:56 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	7.9		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 10:15:00 AM
Project:	Camp Hero		
Lab ID:	1606392-005	**Matrix:**	Soil
Client Sample ID:	BG02-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	4,000		51	140	340	mg/Kg-dry	100	7/1/2016 2:19 PM
Antimony	1.9		0.26	0.34	0.68	mg/Kg-dry	1	7/1/2016 12:12 PM
Arsenic	1.1	J	0.49	0.68	1.4	mg/Kg-dry	1	7/1/2016 12:12 PM
Barium	10		0.20	3.4	6.8	mg/Kg-dry	1	7/1/2016 12:12 PM
Beryllium	0.092	J	0.0086	0.034	0.17	mg/Kg-dry	1	7/1/2016 12:12 PM
Cadmium	0.034	U	0.022	0.034	0.17	mg/Kg-dry	1	7/1/2016 12:12 PM
Calcium	490	X	2.0	6.8	34	mg/Kg-dry	1	7/1/2016 12:12 PM
Chromium	6.7		0.056	0.27	0.34	mg/Kg-dry	1	7/1/2016 12:12 PM
Cobalt	2.0		0.061	0.17	0.68	mg/Kg-dry	1	7/1/2016 12:12 PM
Copper	16		0.28	0.68	3.4	mg/Kg-dry	1	7/1/2016 12:12 PM
Iron	6,400		21	34	100	mg/Kg-dry	10	7/1/2016 1:59 PM
Lead	1.2	J	0.42	0.68	3.4	mg/Kg-dry	1	7/1/2016 12:12 PM
Magnesium	920	X	2.4	3.4	34	mg/Kg-dry	1	7/1/2016 12:12 PM
Manganese	120	X	0.13	0.17	0.68	mg/Kg-dry	1	7/1/2016 12:12 PM
Nickel	3.7		0.19	0.68	3.4	mg/Kg-dry	1	7/1/2016 12:12 PM
Potassium	350		1.6	6.8	14	mg/Kg-dry	1	7/5/2016 4:58 PM
Selenium	1.0	U	0.79	1.0	1.4	mg/Kg-dry	1	7/1/2016 12:12 PM
Silver	0.17	U	0.056	0.17	0.68	mg/Kg-dry	1	7/1/2016 12:12 PM
Sodium	69		1.4	3.4	34	mg/Kg-dry	1	7/1/2016 12:12 PM
Vanadium	9.2		0.086	0.68	1.7	mg/Kg-dry	1	7/1/2016 12:12 PM
Zinc	6.7		0.26	0.34	3.4	mg/Kg-dry	1	7/1/2016 12:12 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.051	J	0.033	0.034	0.14	mg/Kg-dry	10	7/12/2016 11:07 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
2-Methylnaphthalene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Acenaphthene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Acenaphthylene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Anthracene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Benz(a)anthracene	0.00069	UX	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Benzo(a)pyrene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Benzo(b)fluoranthene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Benzo(g,h,i)perylene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Benzo(k)fluoranthene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Chrysene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Dibenzo(a,h)anthracene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Fluoranthene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Fluorene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Indeno(1,2,3-cd)pyrene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Naphthalene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Phenanthrene	0.00069	UX	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM
Pyrene	0.00069	U	0.00069	0.00069	0.00069	mg/Kg-dry	1	6/28/2016 2:17 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 10:15:00 AM
Project:	Camp Hero		
Lab ID:	1606392-005	**Matrix:**	Soil
Client Sample ID:	BG02-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	85.7			46-115		%Rec	1	6/28/2016 2:17 AM
Surr: Nitrobenzene-d5	84.4			44-125		%Rec	1	6/28/2016 2:17 AM
Surr: Terphenyl-d14	99.5			58-133		%Rec	1	6/28/2016 2:17 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	5.2		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 10:20:00 AM
Project: Camp Hero
Lab ID: 1606392-006 **Matrix:** Soil
Client Sample ID: BG02-SB02-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	2,700		58	160	390	mg/Kg-dry	100	7/1/2016 2:59 PM
Antimony	1.5		0.29	0.39	0.78	mg/Kg-dry	1	7/1/2016 1:08 PM
Arsenic	0.78	U	0.56	0.78	1.6	mg/Kg-dry	1	7/1/2016 1:08 PM
Barium	7.9		0.23	3.9	7.8	mg/Kg-dry	1	7/1/2016 1:08 PM
Beryllium	0.041	J	0.0098	0.039	0.19	mg/Kg-dry	1	7/1/2016 1:08 PM
Cadmium	0.039	U	0.026	0.039	0.19	mg/Kg-dry	1	7/1/2016 1:08 PM
Calcium	480		2.3	7.8	39	mg/Kg-dry	1	7/1/2016 1:08 PM
Chromium	4.9		0.064	0.31	0.39	mg/Kg-dry	1	7/1/2016 1:08 PM
Cobalt	1.6		0.070	0.19	0.78	mg/Kg-dry	1	7/1/2016 1:08 PM
Copper	11		0.32	0.78	3.9	mg/Kg-dry	1	7/1/2016 1:08 PM
Iron	4,400		24	39	120	mg/Kg-dry	10	7/1/2016 2:39 PM
Lead	1.1	J	0.48	0.78	3.9	mg/Kg-dry	1	7/1/2016 1:08 PM
Magnesium	590		2.7	3.9	39	mg/Kg-dry	1	7/1/2016 1:08 PM
Manganese	76		0.14	0.19	0.78	mg/Kg-dry	1	7/1/2016 1:08 PM
Nickel	2.8	J	0.22	0.78	3.9	mg/Kg-dry	1	7/1/2016 1:08 PM
Potassium	320		1.8	7.8	16	mg/Kg-dry	1	7/5/2016 5:35 PM
Selenium	1.2	U	0.90	1.2	1.6	mg/Kg-dry	1	7/1/2016 1:08 PM
Silver	0.19	U	0.063	0.19	0.78	mg/Kg-dry	1	7/1/2016 1:08 PM
Sodium	88		1.6	3.9	39	mg/Kg-dry	1	7/1/2016 1:08 PM
Vanadium	6.2		0.098	0.78	1.9	mg/Kg-dry	1	7/1/2016 1:08 PM
Zinc	5.2		0.30	0.39	3.9	mg/Kg-dry	1	7/1/2016 1:08 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.042	J	0.037	0.038	0.15	mg/Kg-dry	10	7/12/2016 11:27 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
2-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Acenaphthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Acenaphthylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Benz(a)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Benzo(a)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Benzo(b)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Benzo(g,h,i)perylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Benzo(k)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Chrysene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Dibenzo(a,h)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Fluorene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Indeno(1,2,3-cd)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Naphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Phenanthrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM
Pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	6/28/2016 8:25 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 10:20:00 AM
Project:	Camp Hero		
Lab ID:	1606392-006	**Matrix:**	Soil
Client Sample ID:	BG02-SB02-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	71.5			46-115		%Rec	1	6/28/2016 8:25 AM
Surr: Nitrobenzene-d5	77.8			44-125		%Rec	1	6/28/2016 8:25 AM
Surr: Terphenyl-d14	88.8			58-133		%Rec	1	6/28/2016 8:25 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606392-007	**Matrix:**	Soil
Client Sample ID:	BG02-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		55	150	370	mg/Kg-dry	100	7/1/2016 3:00 PM
Antimony	1.3		0.28	0.37	0.73	mg/Kg-dry	1	7/1/2016 1:09 PM
Arsenic	0.99	J	0.53	0.73	1.5	mg/Kg-dry	1	7/1/2016 1:09 PM
Barium	19		0.22	3.7	7.3	mg/Kg-dry	1	7/1/2016 1:09 PM
Beryllium	0.20		0.0093	0.037	0.18	mg/Kg-dry	1	7/1/2016 1:09 PM
Cadmium	0.043	J	0.024	0.037	0.18	mg/Kg-dry	1	7/1/2016 1:09 PM
Calcium	310		2.2	7.3	37	mg/Kg-dry	1	7/1/2016 1:09 PM
Chromium	11		0.060	0.29	0.37	mg/Kg-dry	1	7/1/2016 1:09 PM
Cobalt	1.5		0.066	0.18	0.73	mg/Kg-dry	1	7/1/2016 1:09 PM
Copper	27		0.30	0.73	3.7	mg/Kg-dry	1	7/1/2016 1:09 PM
Iron	13,000		23	37	110	mg/Kg-dry	10	7/1/2016 2:41 PM
Lead	3.4	J	0.46	0.73	3.7	mg/Kg-dry	1	7/1/2016 1:09 PM
Magnesium	780		2.6	3.7	37	mg/Kg-dry	1	7/1/2016 1:09 PM
Manganese	99		0.14	0.18	0.73	mg/Kg-dry	1	7/1/2016 1:09 PM
Nickel	4.5		0.21	0.73	3.7	mg/Kg-dry	1	7/1/2016 1:09 PM
Potassium	300		1.7	7.3	15	mg/Kg-dry	1	7/5/2016 5:36 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/1/2016 1:09 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/1/2016 1:09 PM
Sodium	46		1.5	3.7	37	mg/Kg-dry	1	7/1/2016 1:09 PM
Vanadium	18		0.093	0.73	1.8	mg/Kg-dry	1	7/1/2016 1:09 PM
Zinc	13		0.28	0.37	3.7	mg/Kg-dry	1	7/1/2016 1:09 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.065	J	0.036	0.038	0.15	mg/Kg-dry	10	7/12/2016 11:28 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
2-Methylnaphthalene	0.0011	B	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Benz(a)anthracene	0.0014		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Benzo(a)pyrene	0.0013		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Benzo(b)fluoranthene	0.0023		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Benzo(g,h,i)perylene	0.00095		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Benzo(k)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Chrysene	0.0014		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Fluoranthene	0.0030		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Naphthalene	0.00097	B	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Phenanthrene	0.0021	B	0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM
Pyrene	0.0029		0.00077	0.00077	0.00077	mg/Kg-dry	1	6/29/2016 5:16 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606392-007	**Matrix:**	Soil
Client Sample ID:	BG02-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	76.6			46-115		%Rec	1	6/29/2016 5:16 AM
Surr: Nitrobenzene-d5	89.2			44-125		%Rec	1	6/29/2016 5:16 AM
Surr: Terphenyl-d14	97.2			58-133		%Rec	1	6/29/2016 5:16 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 9:10:00 AM
Project: Camp Hero
Lab ID: 1606392-008 **Matrix:** Soil
Client Sample ID: BG02-SB03-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	4,300		50	130	330	mg/Kg-dry	100	7/1/2016 3:02 PM
Antimony	2.9		0.25	0.33	0.66	mg/Kg-dry	1	7/1/2016 1:10 PM
Arsenic	1.8		0.48	0.66	1.3	mg/Kg-dry	1	7/1/2016 1:10 PM
Barium	11		0.20	3.3	6.6	mg/Kg-dry	1	7/1/2016 1:10 PM
Beryllium	0.11	J	0.0084	0.033	0.17	mg/Kg-dry	1	7/1/2016 1:10 PM
Cadmium	0.025	J	0.022	0.033	0.17	mg/Kg-dry	1	7/1/2016 1:10 PM
Calcium	360		1.9	6.6	33	mg/Kg-dry	1	7/1/2016 1:10 PM
Chromium	10		0.054	0.26	0.33	mg/Kg-dry	1	7/1/2016 1:10 PM
Cobalt	3.1		0.059	0.17	0.66	mg/Kg-dry	1	7/1/2016 1:10 PM
Copper	29		0.27	0.66	3.3	mg/Kg-dry	1	7/1/2016 1:10 PM
Iron	13,000		21	33	99	mg/Kg-dry	10	7/1/2016 2:42 PM
Lead	1.8	J	0.41	0.66	3.3	mg/Kg-dry	1	7/1/2016 1:10 PM
Magnesium	840		2.3	3.3	33	mg/Kg-dry	1	7/1/2016 1:10 PM
Manganese	97		0.12	0.17	0.66	mg/Kg-dry	1	7/1/2016 1:10 PM
Nickel	4.8		0.19	0.66	3.3	mg/Kg-dry	1	7/1/2016 1:10 PM
Potassium	400		1.5	6.6	13	mg/Kg-dry	1	7/5/2016 5:37 PM
Selenium	0.99	U	0.77	0.99	1.3	mg/Kg-dry	1	7/1/2016 1:10 PM
Silver	0.17	U	0.054	0.17	0.66	mg/Kg-dry	1	7/1/2016 1:10 PM
Sodium	47		1.3	3.3	33	mg/Kg-dry	1	7/1/2016 1:10 PM
Vanadium	17		0.084	0.66	1.7	mg/Kg-dry	1	7/1/2016 1:10 PM
Zinc	8.6		0.26	0.33	3.3	mg/Kg-dry	1	7/1/2016 1:10 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.048	J	0.033	0.034	0.14	mg/Kg-dry	10	7/12/2016 11:30 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
2-Methylnaphthalene	0.00070	UB	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Acenaphthene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Acenaphthylene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Anthracene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Benz(a)anthracene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Benzo(a)pyrene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Benzo(b)fluoranthene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Benzo(g,h,i)perylene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Benzo(k)fluoranthene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Chrysene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Dibenzo(a,h)anthracene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Fluoranthene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Fluorene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Indeno(1,2,3-cd)pyrene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Naphthalene	0.00070	UB	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Phenanthrene	0.00070	UB	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM
Pyrene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 5:45 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:10:00 AM
Project:	Camp Hero		
Lab ID:	1606392-008	**Matrix:**	Soil
Client Sample ID:	BG02-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	88.7			46-115		%Rec	1	6/29/2016 5:45 AM
Surr: Nitrobenzene-d5	87.8			44-125		%Rec	1	6/29/2016 5:45 AM
Surr: Terphenyl-d14	104			58-133		%Rec	1	6/29/2016 5:45 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	4.9		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 9:15:00 AM
Project: Camp Hero
Lab ID: 1606392-009 **Matrix:** Soil
Client Sample ID: BG02-SB03-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		55	150	360	mg/Kg-dry	100	7/1/2016 3:03 PM
Antimony	4.7		0.27	0.36	0.73	mg/Kg-dry	1	7/1/2016 1:12 PM
Arsenic	1.9		0.53	0.73	1.5	mg/Kg-dry	1	7/1/2016 1:12 PM
Barium	49		0.22	3.6	7.3	mg/Kg-dry	1	7/1/2016 1:12 PM
Beryllium	0.25		0.0092	0.036	0.18	mg/Kg-dry	1	7/1/2016 1:12 PM
Cadmium	0.026	J	0.024	0.036	0.18	mg/Kg-dry	1	7/1/2016 1:12 PM
Calcium	480		2.1	7.3	36	mg/Kg-dry	1	7/1/2016 1:12 PM
Chromium	17		0.060	0.29	0.36	mg/Kg-dry	1	7/1/2016 1:12 PM
Cobalt	5.1		0.066	0.18	0.73	mg/Kg-dry	1	7/1/2016 1:12 PM
Copper	36		0.30	0.73	3.6	mg/Kg-dry	1	7/1/2016 1:12 PM
Iron	13,000		23	36	110	mg/Kg-dry	10	7/1/2016 2:43 PM
Lead	2.5	J	0.45	0.73	3.6	mg/Kg-dry	1	7/1/2016 1:12 PM
Magnesium	3,000		25	36	360	mg/Kg-dry	10	7/7/2016 2:16 PM
Manganese	230		1.3	1.8	7.3	mg/Kg-dry	10	7/1/2016 2:43 PM
Nickel	10		0.21	0.73	3.6	mg/Kg-dry	1	7/1/2016 1:12 PM
Potassium	1,800		17	73	150	mg/Kg-dry	10	7/5/2016 5:53 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/1/2016 1:12 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/1/2016 1:12 PM
Sodium	89		1.5	3.6	36	mg/Kg-dry	1	7/1/2016 1:12 PM
Vanadium	21		0.092	0.73	1.8	mg/Kg-dry	1	7/1/2016 1:12 PM
Zinc	21		0.28	0.36	3.6	mg/Kg-dry	1	7/1/2016 1:12 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.14	J	0.036	0.037	0.15	mg/Kg-dry	10	7/12/2016 11:31 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
2-Methylnaphthalene	0.00072	UB	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Benz(a)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Benzo(a)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Benzo(b)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Benzo(g,h,i)perylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Benzo(k)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Chrysene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Fluorene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Indeno(1,2,3-cd)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Naphthalene	0.00072	UB	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Phenanthrene	0.00072	UB	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM
Pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:14 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606392-009	**Matrix:**	Soil
Client Sample ID:	BG02-SB03-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	76.5			46-115		%Rec	1	6/29/2016 6:14 AM
Surr: Nitrobenzene-d5	84.8			44-125		%Rec	1	6/29/2016 6:14 AM
Surr: Terphenyl-d14	95.9			58-133		%Rec	1	6/29/2016 6:14 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.7		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 8:45:00 AM
Project: Camp Hero
Lab ID: 1606392-010 **Matrix:** Soil
Client Sample ID: BG02-SS04-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,800		54	140	360	mg/Kg-dry	100	7/1/2016 3:04 PM
Antimony	1.7		0.27	0.36	0.72	mg/Kg-dry	1	7/1/2016 1:13 PM
Arsenic	2.2		0.52	0.72	1.4	mg/Kg-dry	1	7/1/2016 1:13 PM
Barium	16		0.22	3.6	7.2	mg/Kg-dry	1	7/1/2016 1:13 PM
Beryllium	0.19		0.0092	0.036	0.18	mg/Kg-dry	1	7/1/2016 1:13 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/1/2016 1:13 PM
Calcium	340		2.1	7.2	36	mg/Kg-dry	1	7/1/2016 1:13 PM
Chromium	9.4		0.060	0.29	0.36	mg/Kg-dry	1	7/1/2016 1:13 PM
Cobalt	1.9		0.065	0.18	0.72	mg/Kg-dry	1	7/1/2016 1:13 PM
Copper	20		0.30	0.72	3.6	mg/Kg-dry	1	7/1/2016 1:13 PM
Iron	9,100		23	36	110	mg/Kg-dry	10	7/1/2016 2:44 PM
Lead	2.6	J	0.45	0.72	3.6	mg/Kg-dry	1	7/1/2016 1:13 PM
Magnesium	880		2.5	3.6	36	mg/Kg-dry	1	7/1/2016 1:13 PM
Manganese	70		0.13	0.18	0.72	mg/Kg-dry	1	7/1/2016 1:13 PM
Nickel	5.6		0.20	0.72	3.6	mg/Kg-dry	1	7/1/2016 1:13 PM
Potassium	270		1.7	7.2	14	mg/Kg-dry	1	7/5/2016 5:40 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/1/2016 1:13 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/1/2016 1:13 PM
Sodium	52		1.5	3.6	36	mg/Kg-dry	1	7/1/2016 1:13 PM
Vanadium	14		0.092	0.72	1.8	mg/Kg-dry	1	7/1/2016 1:13 PM
Zinc	14		0.28	0.36	3.6	mg/Kg-dry	1	7/1/2016 1:13 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.063	J	0.034	0.035	0.14	mg/Kg-dry	10	7/12/2016 11:42 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
2-Methylnaphthalene	0.00074	B	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Benz(a)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Benzo(a)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Benzo(b)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Benzo(g,h,i)perylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Benzo(k)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Chrysene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Fluorene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Indeno(1,2,3-cd)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Naphthalene	0.00085	B	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Phenanthrene	0.00072	UB	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM
Pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	6/29/2016 6:43 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 8:45:00 AM
Project:	Camp Hero		
Lab ID:	1606392-010	**Matrix:**	Soil
Client Sample ID:	BG02-SS04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	77.0			46-115		%Rec	1	6/29/2016 6:43 AM
Surr: Nitrobenzene-d5	87.0			44-125		%Rec	1	6/29/2016 6:43 AM
Surr: Terphenyl-d14	95.6			58-133		%Rec	1	6/29/2016 6:43 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	7.9		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 8:55:00 AM
Project: Camp Hero
Lab ID: 1606392-011 **Matrix:** Soil
Client Sample ID: BG02-SB04-04

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	3,500		52	140	350	mg/Kg-dry	100	7/1/2016 3:05 PM
Antimony	1.4		0.26	0.35	0.70	mg/Kg-dry	1	7/1/2016 1:14 PM
Arsenic	1.1	J	0.50	0.70	1.4	mg/Kg-dry	1	7/1/2016 1:14 PM
Barium	9.8		0.21	3.5	7.0	mg/Kg-dry	1	7/1/2016 1:14 PM
Beryllium	0.091	J	0.0088	0.035	0.17	mg/Kg-dry	1	7/1/2016 1:14 PM
Cadmium	0.031	J	0.023	0.035	0.17	mg/Kg-dry	1	7/1/2016 1:14 PM
Calcium	550		2.0	7.0	35	mg/Kg-dry	1	7/1/2016 1:14 PM
Chromium	5.0		0.057	0.28	0.35	mg/Kg-dry	1	7/1/2016 1:14 PM
Cobalt	1.6		0.063	0.17	0.70	mg/Kg-dry	1	7/1/2016 1:14 PM
Copper	13		0.29	0.70	3.5	mg/Kg-dry	1	7/1/2016 1:14 PM
Iron	4,500		22	35	100	mg/Kg-dry	10	7/1/2016 2:46 PM
Lead	1.1	J	0.43	0.70	3.5	mg/Kg-dry	1	7/1/2016 1:14 PM
Magnesium	720		2.4	3.5	35	mg/Kg-dry	1	7/1/2016 1:14 PM
Manganese	63		0.13	0.17	0.70	mg/Kg-dry	1	7/1/2016 1:14 PM
Nickel	3.1	J	0.20	0.70	3.5	mg/Kg-dry	1	7/1/2016 1:14 PM
Potassium	340		1.6	7.0	14	mg/Kg-dry	1	7/5/2016 5:41 PM
Selenium	1.0	U	0.81	1.0	1.4	mg/Kg-dry	1	7/1/2016 1:14 PM
Silver	0.17	U	0.057	0.17	0.70	mg/Kg-dry	1	7/1/2016 1:14 PM
Sodium	66		1.4	3.5	35	mg/Kg-dry	1	7/1/2016 1:14 PM
Vanadium	6.9		0.088	0.70	1.7	mg/Kg-dry	1	7/1/2016 1:14 PM
Zinc	5.6		0.27	0.35	3.5	mg/Kg-dry	1	7/1/2016 1:14 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.035	U	0.034	0.035	0.14	mg/Kg-dry	10	7/12/2016 11:43 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
2-Methylnaphthalene	0.00070	UB	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Acenaphthene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Acenaphthylene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Anthracene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Benz(a)anthracene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Benzo(a)pyrene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Benzo(b)fluoranthene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Benzo(g,h,i)perylene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Benzo(k)fluoranthene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Chrysene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Dibenzo(a,h)anthracene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Fluoranthene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Fluorene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Indeno(1,2,3-cd)pyrene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Naphthalene	0.00070	UB	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Phenanthrene	0.00070	UB	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM
Pyrene	0.00070	U	0.00070	0.00070	0.00070	mg/Kg-dry	1	6/29/2016 7:12 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 8:55:00 AM
Project:	Camp Hero		
Lab ID:	1606392-011	**Matrix:**	Soil
Client Sample ID:	BG02-SB04-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	81.0			46-115		%Rec	1	6/29/2016 7:12 AM
Surr: Nitrobenzene-d5	91.2			44-125		%Rec	1	6/29/2016 7:12 AM
Surr: Terphenyl-d14	98.5			58-133		%Rec	1	6/29/2016 7:12 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	5.4		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 8:50:00 AM
Project: Camp Hero
Lab ID: 1606392-012 **Matrix:** Soil
Client Sample ID: BG02-SB04-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	3,700		56	150	380	mg/Kg-dry	100	7/1/2016 3:07 PM
Antimony	1.5		0.28	0.38	0.75	mg/Kg-dry	1	7/1/2016 1:16 PM
Arsenic	1.5	J	0.54	0.75	1.5	mg/Kg-dry	1	7/1/2016 1:16 PM
Barium	11		0.22	3.8	7.5	mg/Kg-dry	1	7/1/2016 1:16 PM
Beryllium	0.10	J	0.0095	0.038	0.19	mg/Kg-dry	1	7/1/2016 1:16 PM
Cadmium	0.030	J	0.025	0.038	0.19	mg/Kg-dry	1	7/1/2016 1:16 PM
Calcium	630		2.2	7.5	38	mg/Kg-dry	1	7/1/2016 1:16 PM
Chromium	6.5		0.062	0.30	0.38	mg/Kg-dry	1	7/1/2016 1:16 PM
Cobalt	1.6		0.068	0.19	0.75	mg/Kg-dry	1	7/1/2016 1:16 PM
Copper	15		0.31	0.75	3.8	mg/Kg-dry	1	7/1/2016 1:16 PM
Iron	5,600		23	38	110	mg/Kg-dry	10	7/1/2016 2:47 PM
Lead	1.2	J	0.47	0.75	3.8	mg/Kg-dry	1	7/1/2016 1:16 PM
Magnesium	800		2.6	3.8	38	mg/Kg-dry	1	7/1/2016 1:16 PM
Manganese	70		0.14	0.19	0.75	mg/Kg-dry	1	7/1/2016 1:16 PM
Nickel	3.2	J	0.21	0.75	3.8	mg/Kg-dry	1	7/1/2016 1:16 PM
Potassium	350		1.7	7.5	15	mg/Kg-dry	1	7/5/2016 5:43 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	7/1/2016 1:16 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	7/1/2016 1:16 PM
Sodium	76		1.5	3.8	38	mg/Kg-dry	1	7/1/2016 1:16 PM
Vanadium	9.3		0.095	0.75	1.9	mg/Kg-dry	1	7/1/2016 1:16 PM
Zinc	5.9		0.29	0.38	3.8	mg/Kg-dry	1	7/1/2016 1:16 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.050	J	0.034	0.035	0.14	mg/Kg-dry	10	7/12/2016 11:44 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
2-Methylnaphthalene	0.00075	UB	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Acenaphthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Acenaphthylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Benz(a)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Benzo(a)pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Benzo(b)fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Benzo(g,h,i)perylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Benzo(k)fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Chrysene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Fluorene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Indeno(1,2,3-cd)pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Naphthalene	0.00075	UB	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Phenanthrene	0.00075	UB	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM
Pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 7:41 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606392-012	**Matrix:**	Soil
Client Sample ID:	BG02-SB04-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	83.1			46-115		%Rec	1	6/29/2016 7:41 AM
Surr: Nitrobenzene-d5	92.7			44-125		%Rec	1	6/29/2016 7:41 AM
Surr: Terphenyl-d14	98.5			58-133		%Rec	1	6/29/2016 7:41 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 8:50:00 AM
Project: Camp Hero
Lab ID: 1606392-013 **Matrix:** Soil
Client Sample ID: BG02-SB04-05 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,000		55	150	370	mg/Kg-dry	100	7/1/2016 3:08 PM
Antimony	1.6		0.28	0.37	0.74	mg/Kg-dry	1	7/1/2016 1:17 PM
Arsenic	2.0		0.53	0.74	1.5	mg/Kg-dry	1	7/1/2016 1:17 PM
Barium	14		0.22	3.7	7.4	mg/Kg-dry	1	7/1/2016 1:17 PM
Beryllium	0.15	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/1/2016 1:17 PM
Cadmium	0.037	U	0.024	0.037	0.18	mg/Kg-dry	1	7/1/2016 1:17 PM
Calcium	560		2.2	7.4	37	mg/Kg-dry	1	7/1/2016 1:17 PM
Chromium	7.3		0.061	0.29	0.37	mg/Kg-dry	1	7/1/2016 1:17 PM
Cobalt	1.8		0.066	0.18	0.74	mg/Kg-dry	1	7/1/2016 1:17 PM
Copper	19		0.31	0.74	3.7	mg/Kg-dry	1	7/1/2016 1:17 PM
Iron	6,800		23	37	110	mg/Kg-dry	10	7/1/2016 2:48 PM
Lead	1.9	J	0.46	0.74	3.7	mg/Kg-dry	1	7/1/2016 1:17 PM
Magnesium	940		2.6	3.7	37	mg/Kg-dry	1	7/1/2016 1:17 PM
Manganese	82		0.14	0.18	0.74	mg/Kg-dry	1	7/1/2016 1:17 PM
Nickel	3.9		0.21	0.74	3.7	mg/Kg-dry	1	7/1/2016 1:17 PM
Potassium	370		1.7	7.4	15	mg/Kg-dry	1	7/5/2016 5:44 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/1/2016 1:17 PM
Silver	0.18	U	0.060	0.18	0.74	mg/Kg-dry	1	7/1/2016 1:17 PM
Sodium	92		1.5	3.7	37	mg/Kg-dry	1	7/1/2016 1:17 PM
Vanadium	9.8		0.093	0.74	1.8	mg/Kg-dry	1	7/1/2016 1:17 PM
Zinc	6.9		0.28	0.37	3.7	mg/Kg-dry	1	7/1/2016 1:17 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.043	J	0.036	0.037	0.15	mg/Kg-dry	10	7/12/2016 11:44 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
2-Methylnaphthalene	0.00076	UB	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Benz(a)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Benzo(a)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Benzo(b)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Benzo(g,h,i)perylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Benzo(k)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Chrysene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Indeno(1,2,3-cd)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Naphthalene	0.00076	UB	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Phenanthrene	0.00076	UB	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM
Pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 8:10 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606392-013	**Matrix:**	Soil
Client Sample ID:	BG02-SB04-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	79.5			46-115		%Rec	1	6/29/2016 8:10 AM
Surr: Nitrobenzene-d5	85.8			44-125		%Rec	1	6/29/2016 8:10 AM
Surr: Terphenyl-d14	97.0			58-133		%Rec	1	6/29/2016 8:10 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 9:55:00 AM
Project: Camp Hero
Lab ID: 1606392-014 **Matrix:** Soil
Client Sample ID: BG02-SS05-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,900		55	150	370	mg/Kg-dry	100	7/1/2016 3:09 PM
Antimony	1.8		0.28	0.37	0.73	mg/Kg-dry	1	7/1/2016 1:18 PM
Arsenic	1.7		0.53	0.73	1.5	mg/Kg-dry	1	7/1/2016 1:18 PM
Barium	17		0.22	3.7	7.3	mg/Kg-dry	1	7/1/2016 1:18 PM
Beryllium	0.19		0.0093	0.037	0.18	mg/Kg-dry	1	7/1/2016 1:18 PM
Cadmium	0.039	J	0.024	0.037	0.18	mg/Kg-dry	1	7/1/2016 1:18 PM
Calcium	350		2.2	7.3	37	mg/Kg-dry	1	7/1/2016 1:18 PM
Chromium	10		0.060	0.29	0.37	mg/Kg-dry	1	7/1/2016 1:18 PM
Cobalt	2.0		0.066	0.18	0.73	mg/Kg-dry	1	7/1/2016 1:18 PM
Copper	23		0.30	0.73	3.7	mg/Kg-dry	1	7/1/2016 1:18 PM
Iron	9,900		23	37	110	mg/Kg-dry	10	7/1/2016 2:50 PM
Lead	3.5	J	0.46	0.73	3.7	mg/Kg-dry	1	7/1/2016 1:18 PM
Magnesium	920		2.6	3.7	37	mg/Kg-dry	1	7/1/2016 1:18 PM
Manganese	95		0.14	0.18	0.73	mg/Kg-dry	1	7/1/2016 1:18 PM
Nickel	5.1		0.21	0.73	3.7	mg/Kg-dry	1	7/1/2016 1:18 PM
Potassium	290		1.7	7.3	15	mg/Kg-dry	1	7/5/2016 5:45 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/1/2016 1:18 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/1/2016 1:18 PM
Sodium	55		1.5	3.7	37	mg/Kg-dry	1	7/1/2016 1:18 PM
Vanadium	16		0.093	0.73	1.8	mg/Kg-dry	1	7/1/2016 1:18 PM
Zinc	13		0.28	0.37	3.7	mg/Kg-dry	1	7/1/2016 1:18 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.059	J	0.035	0.037	0.15	mg/Kg-dry	10	7/12/2016 11:45 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
2-Methylnaphthalene	0.00083	B	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Acenaphthene	0.00075		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Anthracene	0.0018		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Benz(a)anthracene	0.011		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Benzo(a)pyrene	0.0092		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Benzo(b)fluoranthene	0.016		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Benzo(g,h,i)perylene	0.0064		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Benzo(k)fluoranthene	0.0044		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Chrysene	0.0092		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Dibenzo(a,h)anthracene	0.00082		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Fluoranthene	0.022		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Fluorene	0.00086		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Indeno(1,2,3-cd)pyrene	0.0056		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Naphthalene	0.00090	B	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Phenanthrene	0.013	B	0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM
Pyrene	0.020		0.00074	0.00074	0.00074	mg/Kg-dry	1	6/29/2016 8:39 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:55:00 AM
Project:	Camp Hero		
Lab ID:	1606392-014	**Matrix:**	Soil
Client Sample ID:	BG02-SS05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	69.0			46-115		%Rec	1	6/29/2016 8:39 AM
Surr: Nitrobenzene-d5	74.6			44-125		%Rec	1	6/29/2016 8:39 AM
Surr: Terphenyl-d14	87.4			58-133		%Rec	1	6/29/2016 8:39 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.6		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 9:25:00 AM
Project: Camp Hero
Lab ID: 1606392-015 **Matrix:** Soil
Client Sample ID: BG02-SS06-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	14,000		56	150	370	mg/Kg-dry	100	7/1/2016 3:11 PM
Antimony	2.7		0.28	0.37	0.74	mg/Kg-dry	1	7/1/2016 1:19 PM
Arsenic	3.4		0.54	0.74	1.5	mg/Kg-dry	1	7/1/2016 1:19 PM
Barium	28		0.22	3.7	7.4	mg/Kg-dry	1	7/1/2016 1:19 PM
Beryllium	0.30		0.0094	0.037	0.19	mg/Kg-dry	1	7/1/2016 1:19 PM
Cadmium	0.031	J	0.025	0.037	0.19	mg/Kg-dry	1	7/1/2016 1:19 PM
Calcium	350		2.2	7.4	37	mg/Kg-dry	1	7/1/2016 1:19 PM
Chromium	15		0.061	0.30	0.37	mg/Kg-dry	1	7/1/2016 1:19 PM
Cobalt	2.9		0.067	0.19	0.74	mg/Kg-dry	1	7/1/2016 1:19 PM
Copper	31		0.31	0.74	3.7	mg/Kg-dry	1	7/1/2016 1:19 PM
Iron	13,000		23	37	110	mg/Kg-dry	10	7/1/2016 2:51 PM
Lead	4.3		0.46	0.74	3.7	mg/Kg-dry	1	7/1/2016 1:19 PM
Magnesium	1,300		2.6	3.7	37	mg/Kg-dry	1	7/1/2016 1:19 PM
Manganese	110		0.14	0.19	0.74	mg/Kg-dry	1	7/1/2016 1:19 PM
Nickel	7.5		0.21	0.74	3.7	mg/Kg-dry	1	7/1/2016 1:19 PM
Potassium	440		1.7	7.4	15	mg/Kg-dry	1	7/5/2016 5:47 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	7/1/2016 1:19 PM
Silver	0.19	U	0.061	0.19	0.74	mg/Kg-dry	1	7/1/2016 1:19 PM
Sodium	64		1.5	3.7	37	mg/Kg-dry	1	7/1/2016 1:19 PM
Vanadium	21		0.094	0.74	1.9	mg/Kg-dry	1	7/1/2016 1:19 PM
Zinc	17		0.29	0.37	3.7	mg/Kg-dry	1	7/1/2016 1:19 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.088	J	0.036	0.037	0.15	mg/Kg-dry	10	7/12/2016 11:46 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
2-Methylnaphthalene	0.00076	UB	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Benz(a)anthracene	0.0021		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Benzo(a)pyrene	0.0016		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Benzo(b)fluoranthene	0.0032		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Benzo(g,h,i)perylene	0.0014		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Benzo(k)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Chrysene	0.0015		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Fluoranthene	0.0038		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Indeno(1,2,3-cd)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Naphthalene	0.00076	UB	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Phenanthrene	0.0023	B	0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM
Pyrene	0.0035		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 9:08 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:25:00 AM
Project:	Camp Hero		
Lab ID:	1606392-015	**Matrix:**	Soil
Client Sample ID:	BG02-SS06-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	78.2			46-115		%Rec	1	6/29/2016 9:08 AM
Surr: Nitrobenzene-d5	84.4			44-125		%Rec	1	6/29/2016 9:08 AM
Surr: Terphenyl-d14	99.8			58-133		%Rec	1	6/29/2016 9:08 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606392-016	**Matrix:**	Soil
Client Sample ID:	BG02-SS07-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,100		56	150	380	mg/Kg-dry	100	7/13/2016 5:13 PM
Antimony	1.8		0.28	0.38	0.75	mg/Kg-dry	1	7/13/2016 3:31 PM
Arsenic	2.8		0.54	0.75	1.5	mg/Kg-dry	1	7/13/2016 3:31 PM
Barium	14		0.22	3.8	7.5	mg/Kg-dry	1	7/13/2016 3:31 PM
Beryllium	0.088	J	0.0095	0.038	0.19	mg/Kg-dry	1	7/13/2016 3:31 PM
Cadmium	0.038	U	0.025	0.038	0.19	mg/Kg-dry	1	7/13/2016 3:31 PM
Calcium	270		2.2	7.5	38	mg/Kg-dry	1	7/13/2016 3:31 PM
Chromium	11		0.062	0.30	0.38	mg/Kg-dry	1	7/13/2016 3:31 PM
Cobalt	1.8		0.068	0.19	0.75	mg/Kg-dry	1	7/13/2016 3:31 PM
Copper	24		0.31	0.75	3.8	mg/Kg-dry	1	7/13/2016 3:31 PM
Iron	12,000		23	38	110	mg/Kg-dry	10	7/13/2016 4:30 PM
Lead	2.5	J	0.47	0.75	3.8	mg/Kg-dry	1	7/13/2016 3:31 PM
Magnesium	710		2.6	3.8	38	mg/Kg-dry	1	7/13/2016 3:31 PM
Manganese	78		0.14	0.19	0.75	mg/Kg-dry	1	7/13/2016 3:31 PM
Nickel	4.2		0.21	0.75	3.8	mg/Kg-dry	1	7/13/2016 3:31 PM
Potassium	240		1.7	7.5	15	mg/Kg-dry	1	7/13/2016 3:31 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	7/13/2016 3:31 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	7/13/2016 3:31 PM
Sodium	38		1.5	3.8	38	mg/Kg-dry	1	7/13/2016 3:31 PM
Vanadium	15		0.095	0.75	1.9	mg/Kg-dry	1	7/13/2016 3:31 PM
Zinc	11		0.29	0.38	3.8	mg/Kg-dry	1	7/13/2016 3:31 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.071	J	0.036	0.038	0.15	mg/Kg-dry	10	7/12/2016 11:47 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
2-Methylnaphthalene	0.00094	B	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Acenaphthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Acenaphthylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Benz(a)anthracene	0.0011		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Benzo(a)pyrene	0.00080		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Benzo(b)fluoranthene	0.0016		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Benzo(g,h,i)perylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Benzo(k)fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Chrysene	0.00079		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Fluoranthene	0.0017		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Fluorene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Indeno(1,2,3-cd)pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Naphthalene	0.00093	B	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Phenanthrene	0.0013	B	0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM
Pyrene	0.0017		0.00075	0.00075	0.00075	mg/Kg-dry	1	6/29/2016 9:37 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606392-016	**Matrix:**	Soil
Client Sample ID:	BG02-SS07-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	76.3			46-115		%Rec	1	6/29/2016 9:37 AM
Surr: Nitrobenzene-d5	86.1			44-125		%Rec	1	6/29/2016 9:37 AM
Surr: Terphenyl-d14	98.2			58-133		%Rec	1	6/29/2016 9:37 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 8:40:00 AM
Project:	Camp Hero		
Lab ID:	1606392-017	**Matrix:**	Soil
Client Sample ID:	BG02-SS08-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,700		62	170	410	mg/Kg-dry	100	7/13/2016 5:14 PM
Antimony	0.75	J	0.31	0.41	0.83	mg/Kg-dry	1	7/13/2016 3:32 PM
Arsenic	0.99	J	0.60	0.83	1.7	mg/Kg-dry	1	7/13/2016 3:32 PM
Barium	8.8		0.25	4.1	8.3	mg/Kg-dry	1	7/13/2016 3:32 PM
Beryllium	0.041	U	0.011	0.041	0.21	mg/Kg-dry	1	7/13/2016 3:32 PM
Cadmium	0.041	U	0.027	0.041	0.21	mg/Kg-dry	1	7/13/2016 3:32 PM
Calcium	230		2.4	8.3	41	mg/Kg-dry	1	7/13/2016 3:32 PM
Chromium	6.0		0.068	0.33	0.41	mg/Kg-dry	1	7/13/2016 3:32 PM
Cobalt	0.68	J	0.075	0.21	0.83	mg/Kg-dry	1	7/13/2016 3:32 PM
Copper	13		0.34	0.83	4.1	mg/Kg-dry	1	7/13/2016 3:32 PM
Iron	6,000		26	41	120	mg/Kg-dry	10	7/13/2016 4:31 PM
Lead	2.9	J	0.52	0.83	4.1	mg/Kg-dry	1	7/13/2016 3:32 PM
Magnesium	390		2.9	4.1	41	mg/Kg-dry	1	7/13/2016 3:32 PM
Manganese	36		0.15	0.21	0.83	mg/Kg-dry	1	7/13/2016 3:32 PM
Nickel	2.2	J	0.23	0.83	4.1	mg/Kg-dry	1	7/13/2016 3:32 PM
Potassium	230		1.9	8.3	17	mg/Kg-dry	1	7/13/2016 3:32 PM
Selenium	1.2	U	0.97	1.2	1.7	mg/Kg-dry	1	7/13/2016 3:32 PM
Silver	0.21	U	0.068	0.21	0.83	mg/Kg-dry	1	7/13/2016 3:32 PM
Sodium	69		1.7	4.1	41	mg/Kg-dry	1	7/13/2016 3:32 PM
Vanadium	11		0.11	0.83	2.1	mg/Kg-dry	1	7/13/2016 3:32 PM
Zinc	5.0		0.32	0.41	4.1	mg/Kg-dry	1	7/13/2016 3:32 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.052	J	0.040	0.042	0.17	mg/Kg-dry	10	7/12/2016 11:48 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
2-Methylnaphthalene	0.00096	B	0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Acenaphthene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Acenaphthylene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Anthracene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Benz(a)anthracene	0.0032		0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Benzo(a)pyrene	0.0025		0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Benzo(b)fluoranthene	0.0047		0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Benzo(g,h,i)perylene	0.0018		0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Benzo(k)fluoranthene	0.0014		0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Chrysene	0.0023		0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Dibenzo(a,h)anthracene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Fluoranthene	0.0053		0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Fluorene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Indeno(1,2,3-cd)pyrene	0.0015		0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Naphthalene	0.0011	B	0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Phenanthrene	0.0034	B	0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM
Pyrene	0.0052		0.00083	0.00083	0.00083	mg/Kg-dry	1	6/29/2016 10:08 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 8:40:00 AM
Project:	Camp Hero		
Lab ID:	1606392-017	**Matrix:**	Soil
Client Sample ID:	BG02-SS08-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	77.1			46-115		%Rec	1	6/29/2016 10:08 AM
Surr: Nitrobenzene-d5	86.0			44-125		%Rec	1	6/29/2016 10:08 AM
Surr: Terphenyl-d14	95.0			58-133		%Rec	1	6/29/2016 10:08 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	20		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 9:10:00 AM
Project: Camp Hero
Lab ID: 1606392-018 **Matrix:** Soil
Client Sample ID: TB-SO-060916-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00060	U	0.00029	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
1,1,1-Trichloroethane	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
1,1,2,2-Tetrachloroethane	0.00060	U	0.00053	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
1,1,2-Trichloroethane	0.00060	U	0.00039	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
1,1-Dichloroethane	0.00060	U	0.00015	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
1,1-Dichloroethene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
1,2,3-Trichloropropane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
1,2-Dibromo-3-chloropropane	0.0020	U	0.0014	0.0020	0.0050	mg/Kg	1	6/15/2016 9:50 AM
1,2-Dibromoethane	0.00060	U	0.00045	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
1,2-Dichloroethane	0.00060	U	0.00014	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
1,2-Dichloropropane	0.00060	U	0.00028	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
2-Butanone [MEK]	0.010	U	0.0059	0.010	0.020	mg/Kg	1	6/15/2016 9:50 AM
2-Hexanone	0.0020	U	0.00063	0.0020	0.0050	mg/Kg	1	6/15/2016 9:50 AM
Acetone	0.0074	JY Q	0.00091	0.0020	0.010	mg/Kg	1	6/15/2016 9:50 AM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Bromodichloromethane	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Bromoform	0.00060	U	0.00033	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Carbon disulfide	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Carbon tetrachloride	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Chlorobenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Chlorodibromomethane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Chloroethane	0.0010	U	0.00076	0.0010	0.0020	mg/Kg	1	6/15/2016 9:50 AM
Chloroform	0.00060	U	0.00048	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Chloromethane	0.00060	U	0.00034	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
cis-1,2-Dichloroethene	0.00060	U	0.00056	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
cis-1,3-Dichloropropene	0.00060	U	0.00016	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Dichlorodifluoromethane [Freon-12]	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Methylene chloride	0.0020	UB Q	0.0011	0.0020	0.0050	mg/Kg	1	6/15/2016 9:50 AM
Styrene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Tetrachloroethene	0.00060	U	0.00032	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Toluene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
trans-1,2-Dichloroethene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
trans-1,3-Dichloropropene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Trichloroethene	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Trichlorofluoromethane [Freon-11]	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/15/2016 9:50 AM
Vinyl acetate	0.00060	UY	0.00047	0.00060	0.0050	mg/Kg	1	6/15/2016 9:50 AM
Vinyl chloride	0.00060	U	0.00031	0.00060	0.00080	mg/Kg	1	6/15/2016 9:50 AM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg	1	6/15/2016 9:50 AM
Surr: 4-Bromofluorobenzene	87.2			79-119		%Rec	1	6/15/2016 9:50 AM
Surr: Dibromofluoromethane	95.6			78-119		%Rec	1	6/15/2016 9:50 AM
Surr: Toluene-d8	88.7			85-116		%Rec	1	6/15/2016 9:50 AM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 1:40:00 PM
Project: Camp Hero
Lab ID: 1606392-019 **Matrix:** Soil
Client Sample ID: H17-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0076	U	0.0034	0.0076	0.038	mg/Kg-dry	1	6/16/2016 6:44 AM
Aroclor 1221	0.0076	U	0.0034	0.0076	0.038	mg/Kg-dry	1	6/16/2016 6:44 AM
Aroclor 1232	0.0076	U	0.0051	0.0076	0.038	mg/Kg-dry	1	6/16/2016 6:44 AM
Aroclor 1242	0.0076	U	0.0043	0.0076	0.038	mg/Kg-dry	1	6/16/2016 6:44 AM
Aroclor 1248	0.0076	U	0.0040	0.0076	0.038	mg/Kg-dry	1	6/16/2016 6:44 AM
Aroclor 1254	0.0076	U	0.0048	0.0076	0.038	mg/Kg-dry	1	6/16/2016 6:44 AM
Aroclor 1260	0.0076	U	0.0034	0.0076	0.038	mg/Kg-dry	1	6/16/2016 6:44 AM
Aroclor 1262	0.0076	U	0.0034	0.0076	0.038	mg/Kg-dry	1	6/16/2016 6:44 AM
Aroclor 1268	0.0076	U	0.0028	0.0076	0.038	mg/Kg-dry	1	6/16/2016 6:44 AM
Surr: Tetrachloro-m-xylene	81.2			44-130		%Rec	1	6/16/2016 6:44 AM
Surr: Decachlorobiphenyl	89.5			60-125		%Rec	1	6/16/2016 6:44 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	11,000		56	150	370	mg/Kg-dry	100	7/13/2016 5:15 PM
Antimony	2.4		0.28	0.37	0.75	mg/Kg-dry	1	7/13/2016 3:34 PM
Arsenic	2.9		0.54	0.75	1.5	mg/Kg-dry	1	7/13/2016 3:34 PM
Barium	22		0.22	3.7	7.5	mg/Kg-dry	1	7/13/2016 3:34 PM
Beryllium	0.051	J	0.0095	0.037	0.19	mg/Kg-dry	1	7/13/2016 3:34 PM
Cadmium	0.034	J	0.025	0.037	0.19	mg/Kg-dry	1	7/13/2016 3:34 PM
Calcium	510		2.2	7.5	37	mg/Kg-dry	1	7/13/2016 3:34 PM
Chromium	13		0.062	0.30	0.37	mg/Kg-dry	1	7/13/2016 3:34 PM
Cobalt	2.3		0.067	0.19	0.75	mg/Kg-dry	1	7/13/2016 3:34 PM
Copper	27		0.31	0.75	3.7	mg/Kg-dry	1	7/13/2016 3:34 PM
Iron	12,000		23	37	110	mg/Kg-dry	10	7/13/2016 4:32 PM
Lead	5.5		0.47	0.75	3.7	mg/Kg-dry	1	7/13/2016 3:34 PM
Magnesium	1,200		2.6	3.7	37	mg/Kg-dry	1	7/13/2016 3:34 PM
Manganese	140		0.14	0.19	0.75	mg/Kg-dry	1	7/13/2016 3:34 PM
Nickel	5.8		0.21	0.75	3.7	mg/Kg-dry	1	7/13/2016 3:34 PM
Potassium	540		1.7	7.5	15	mg/Kg-dry	1	7/13/2016 3:34 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	7/13/2016 3:34 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	7/13/2016 3:34 PM
Sodium	63		1.5	3.7	37	mg/Kg-dry	1	7/13/2016 3:34 PM
Vanadium	20		0.095	0.75	1.9	mg/Kg-dry	1	7/13/2016 3:34 PM
Zinc	16		0.29	0.37	3.7	mg/Kg-dry	1	7/13/2016 3:34 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.081	J	0.036	0.037	0.15	mg/Kg-dry	10	7/15/2016 3:14 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
1,2-Dichlorobenzene	0.019	U	0.0081	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
1,3-Dichlorobenzene	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
1,4-Dichlorobenzene	0.019	U	0.0060	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 1:40:00 PM
Project: Camp Hero
Lab ID: 1606392-019 **Matrix:** Soil
Client Sample ID: H17-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
2,4-Dichlorophenol	0.094	U	0.032	0.094	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
2,4-Dimethyl phenol	0.094	U	0.036	0.094	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.93	mg/Kg-dry	1	6/20/2016 7:33 PM
2,4-Dinitrotoluene	0.019	U	0.016	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
2-Chlorophenol	0.094	U	0.039	0.094	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
2-Methylphenol (o-Cresol)	0.094	U	0.040	0.094	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
2-Nitroaniline	0.019	U	0.0091	0.019	0.36	mg/Kg-dry	1	6/20/2016 7:33 PM
2-Nitrophenol	0.094	U	0.046	0.094	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
3,3´-Dichlorobenzidine	0.75	U	0.48	0.75	1.1	mg/Kg-dry	1	6/20/2016 7:33 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.36	mg/Kg-dry	1	6/20/2016 7:33 PM
3/4-Methylphenol [m/p-Cresol]	0.094	U	0.067	0.094	0.36	mg/Kg-dry	1	6/20/2016 7:33 PM
4,6-Dinitro-2-methylphenol	0.094	UY	0.054	0.094	0.36	mg/Kg-dry	1	6/20/2016 7:33 PM
4-Bromophenyl phenyl ether	0.094	U	0.048	0.094	0.23	mg/Kg-dry	1	6/20/2016 7:33 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
4-Chloroaniline [p-Chloroaniline]	0.094	U	0.028	0.094	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
4-Nitroaniline	0.094	U	0.027	0.094	0.36	mg/Kg-dry	1	6/20/2016 7:33 PM
4-Nitrophenol	0.38	U	0.27	0.38	0.93	mg/Kg-dry	1	6/20/2016 7:33 PM
Benzoic acid	0.38	UYZ	0.15	0.38	1.1	mg/Kg-dry	1	6/20/2016 7:33 PM
Benzyl alcohol	0.019	U	0.0090	0.019	0.74	mg/Kg-dry	1	6/20/2016 7:33 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0086	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.033	0.038	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Butyl benzyl phthalate	0.038	U	0.022	0.038	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Di-n-butyl phthalate	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Dibenzofuran	0.019	U	0.0096	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.056	mg/Kg-dry	1	6/20/2016 7:33 PM
Hexachloroethane	0.019	U	0.0086	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Isophorone	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
N-Nitroso-di-n-propylamine	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
N-Nitrosodimethylamine	0.019	UY	0.0091	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
N-Nitrosodiphenylamine	0.019	U	0.0091	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Pentachlorophenol	0.094	UY	0.071	0.094	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Phenol	0.094	U	0.040	0.094	0.18	mg/Kg-dry	1	6/20/2016 7:33 PM
Surr: 2,4,6-Tribromophenol	88.8			39-132		%Rec	1	6/20/2016 7:33 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 1:40:00 PM
Project: Camp Hero
Lab ID: 1606392-019 **Matrix:** Soil
Client Sample ID: H17-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	77.0			44-115		%Rec	1	6/20/2016 7:33 PM
Surr: 2-Fluorophenol	65.8			35-115		%Rec	1	6/20/2016 7:33 PM
Surr: Nitrobenzene-d5	73.5			37-122		%Rec	1	6/20/2016 7:33 PM
Surr: Phenol-d5	65.9			33-122		%Rec	1	6/20/2016 7:33 PM
Surr: Terphenyl-d14	80.2			54-127		%Rec	1	6/20/2016 7:33 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00087		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
2-Methylnaphthalene	0.0014		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Acenaphthene	0.0018		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Acenaphthylene	0.00076		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Anthracene	0.0046		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Benz(a)anthracene	0.025		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Benzo(a)pyrene	0.011		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Benzo(b)fluoranthene	0.025		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Benzo(g,h,i)perylene	0.0085		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Benzo(k)fluoranthene	0.0089		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Chrysene	0.014		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Dibenzo(a,h)anthracene	0.00097		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Fluoranthene	0.035		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Fluorene	0.0017		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Indeno(1,2,3-cd)pyrene	0.0080		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Naphthalene	0.0061		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Phenanthrene	0.026		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Pyrene	0.035		0.00076	0.00076	0.00076	mg/Kg-dry	1	6/29/2016 10:37 AM
Surr: 2-Fluorobiphenyl	74.7			46-115		%Rec	1	6/29/2016 10:37 AM
Surr: Nitrobenzene-d5	81.9			44-125		%Rec	1	6/29/2016 10:37 AM
Surr: Terphenyl-d14	94.4			58-133		%Rec	1	6/29/2016 10:37 AM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.096	U	0.038	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
1,1,1-Trichloroethane	0.096	U	0.026	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
1,1,2,2-Tetrachloroethane	0.096	U	0.049	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
1,1,2-Trichloroethane	0.096	U	0.034	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
1,1-Dichloroethane	0.096	U	0.033	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
1,1-Dichloroethene	0.096	U	0.034	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
1,2,3-Trichloropropane	0.096	U	0.075	0.096	0.32	mg/Kg-dry	139	6/20/2016 1:45 PM
1,2-Dibromo-3-chloropropane	0.16	U	0.14	0.16	0.32	mg/Kg-dry	139	6/20/2016 1:45 PM
1,2-Dibromoethane	0.096	U	0.037	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
1,2-Dichloroethane	0.096	U	0.029	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
1,2-Dichloropropane	0.096	U	0.043	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
2-Butanone [MEK]	0.80	U	0.11	0.80	1.6	mg/Kg-dry	139	6/20/2016 1:45 PM
2-Hexanone	0.096	U	0.054	0.096	0.80	mg/Kg-dry	139	6/20/2016 1:45 PM
Acetone	0.64	U	0.086	0.64	0.80	mg/Kg-dry	139	6/20/2016 1:45 PM
Benzene	0.096	U	0.026	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 1:40:00 PM
Project:	Camp Hero		
Lab ID:	1606392-019	**Matrix:**	Soil
Client Sample ID:	H17-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.096	U	0.025	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Bromoform	0.096	UQ	0.033	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Carbon disulfide	0.096	U	0.072	0.096	0.32	mg/Kg-dry	139	6/20/2016 1:45 PM
Carbon tetrachloride	0.096	UY	0.031	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Chlorobenzene	0.096	U	0.027	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Chlorodibromomethane	0.096	U	0.027	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Chloroethane	0.64	UYZ	0.29	0.64	0.80	mg/Kg-dry	139	6/20/2016 1:45 PM
Chloroform	0.096	U	0.026	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Chloromethane	0.096	U	0.036	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
cis-1,2-Dichloroethene	0.096	U	0.034	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
cis-1,3-Dichloropropene	0.096	U	0.023	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Dichlorodifluoromethane [Freon-12]	0.096	U	0.031	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Ethylbenzene	0.096	U	0.033	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Methylene chloride	0.096	U	0.069	0.096	0.32	mg/Kg-dry	139	6/20/2016 1:45 PM
Styrene	0.096	U	0.025	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Tetrachloroethene	0.096	U	0.037	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Toluene	0.096	U	0.033	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
trans-1,2-Dichloroethene	0.096	U	0.026	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
trans-1,3-Dichloropropene	0.096	U	0.032	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Trichloroethene	0.096	U	0.061	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Trichlorofluoromethane [Freon-11]	0.096	U	0.032	0.096	0.16	mg/Kg-dry	139	6/20/2016 1:45 PM
Vinyl acetate	0.096	U	0.065	0.096	4.0	mg/Kg-dry	139	6/20/2016 1:45 PM
Vinyl chloride	0.096	U	0.031	0.096	0.13	mg/Kg-dry	139	6/20/2016 1:45 PM
Xylene (Total)	0.24	U	0.097	0.24	0.48	mg/Kg-dry	139	6/20/2016 1:45 PM
Surr: 4-Bromofluorobenzene	95.3			79-119		%Rec	139	6/20/2016 1:45 PM
Surr: Dibromofluoromethane	93.0			78-119		%Rec	139	6/20/2016 1:45 PM
Surr: Toluene-d8	87.6			85-116		%Rec	139	6/20/2016 1:45 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 3:20:00 PM
Project:	Camp Hero		
Lab ID:	1606392-020	**Matrix:**	Soil
Client Sample ID:	H17-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0078	U	0.0035	0.0078	0.039	mg/Kg-dry	1	6/16/2016 7:08 AM
Aroclor 1221	0.0078	U	0.0035	0.0078	0.039	mg/Kg-dry	1	6/16/2016 7:08 AM
Aroclor 1232	0.0078	U	0.0053	0.0078	0.039	mg/Kg-dry	1	6/16/2016 7:08 AM
Aroclor 1242	0.0078	U	0.0044	0.0078	0.039	mg/Kg-dry	1	6/16/2016 7:08 AM
Aroclor 1248	0.0078	U	0.0041	0.0078	0.039	mg/Kg-dry	1	6/16/2016 7:08 AM
Aroclor 1254	0.0078	U	0.0049	0.0078	0.039	mg/Kg-dry	1	6/16/2016 7:08 AM
Aroclor 1260	0.0078	U	0.0034	0.0078	0.039	mg/Kg-dry	1	6/16/2016 7:08 AM
Aroclor 1262	0.0078	U	0.0034	0.0078	0.039	mg/Kg-dry	1	6/16/2016 7:08 AM
Aroclor 1268	0.0078	U	0.0029	0.0078	0.039	mg/Kg-dry	1	6/16/2016 7:08 AM
Surr: Tetrachloro-m-xylene	69.7			44-130		%Rec	1	6/16/2016 7:08 AM
Surr: Decachlorobiphenyl	76.3			60-125		%Rec	1	6/16/2016 7:08 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	10,000		58	150	390	mg/Kg-dry	100	7/13/2016 5:16 PM
Antimony	1.6		0.29	0.39	0.77	mg/Kg-dry	1	7/13/2016 3:35 PM
Arsenic	2.3		0.56	0.77	1.5	mg/Kg-dry	1	7/13/2016 3:35 PM
Barium	20		0.23	3.9	7.7	mg/Kg-dry	1	7/13/2016 3:35 PM
Beryllium	0.056	J	0.0098	0.039	0.19	mg/Kg-dry	1	7/13/2016 3:35 PM
Cadmium	0.082	J	0.025	0.039	0.19	mg/Kg-dry	1	7/13/2016 3:35 PM
Calcium	380		2.3	7.7	39	mg/Kg-dry	1	7/13/2016 3:35 PM
Chromium	12		0.064	0.31	0.39	mg/Kg-dry	1	7/13/2016 3:35 PM
Cobalt	1.5		0.069	0.19	0.77	mg/Kg-dry	1	7/13/2016 3:35 PM
Copper	25		0.32	0.77	3.9	mg/Kg-dry	1	7/13/2016 3:35 PM
Iron	12,000		24	39	120	mg/Kg-dry	10	7/13/2016 4:33 PM
Lead	6.2		0.48	0.77	3.9	mg/Kg-dry	1	7/13/2016 3:35 PM
Magnesium	840		2.7	3.9	39	mg/Kg-dry	1	7/13/2016 3:35 PM
Manganese	100		0.14	0.19	0.77	mg/Kg-dry	1	7/13/2016 3:35 PM
Nickel	4.2		0.22	0.77	3.9	mg/Kg-dry	1	7/13/2016 3:35 PM
Potassium	420		1.8	7.7	15	mg/Kg-dry	1	7/13/2016 3:35 PM
Selenium	1.2	U	0.90	1.2	1.5	mg/Kg-dry	1	7/13/2016 3:35 PM
Silver	0.19	U	0.063	0.19	0.77	mg/Kg-dry	1	7/13/2016 3:35 PM
Sodium	64		1.6	3.9	39	mg/Kg-dry	1	7/13/2016 3:35 PM
Vanadium	20		0.098	0.77	1.9	mg/Kg-dry	1	7/13/2016 3:35 PM
Zinc	27		0.30	0.39	3.9	mg/Kg-dry	1	7/13/2016 3:35 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.089	J	0.038	0.039	0.16	mg/Kg-dry	10	7/15/2016 3:15 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
1,2-Dichlorobenzene	0.019	U	0.0083	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
1,3-Dichlorobenzene	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
1,4-Dichlorobenzene	0.019	U	0.0062	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
2,4,5-Trichlorophenol	0.039	U	0.019	0.039	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 3:20:00 PM
Project: Camp Hero
Lab ID: 1606392-020 **Matrix:** Soil
Client Sample ID: H17-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.039	U	0.021	0.039	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
2,4-Dichlorophenol	0.096	U	0.033	0.096	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
2,4-Dimethyl phenol	0.096	U	0.037	0.096	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.96	mg/Kg-dry	1	6/20/2016 7:58 PM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
2-Chlorophenol	0.096	U	0.040	0.096	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
2-Methylphenol (o-Cresol)	0.096	U	0.041	0.096	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
2-Nitroaniline	0.019	U	0.0094	0.019	0.37	mg/Kg-dry	1	6/20/2016 7:58 PM
2-Nitrophenol	0.096	U	0.048	0.096	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
3,3´-Dichlorobenzidine	0.77	U	0.49	0.77	1.2	mg/Kg-dry	1	6/20/2016 7:58 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	6/20/2016 7:58 PM
3/4-Methylphenol [m/p-Cresol]	0.096	U	0.069	0.096	0.37	mg/Kg-dry	1	6/20/2016 7:58 PM
4,6-Dinitro-2-methylphenol	0.096	UY	0.055	0.096	0.37	mg/Kg-dry	1	6/20/2016 7:58 PM
4-Bromophenyl phenyl ether	0.096	U	0.049	0.096	0.23	mg/Kg-dry	1	6/20/2016 7:58 PM
4-Chloro-3-methylphenol	0.039	U	0.020	0.039	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
4-Chloroaniline [p-Chloroaniline]	0.096	U	0.029	0.096	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
4-Nitroaniline	0.096	U	0.028	0.096	0.37	mg/Kg-dry	1	6/20/2016 7:58 PM
4-Nitrophenol	0.39	U	0.28	0.39	0.96	mg/Kg-dry	1	6/20/2016 7:58 PM
Benzoic acid	0.70	JY Z	0.16	0.39	1.2	mg/Kg-dry	1	6/20/2016 7:58 PM
Benzyl alcohol	0.019	U	0.0093	0.019	0.76	mg/Kg-dry	1	6/20/2016 7:58 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Bis(2-chloroethyl) ether	0.039	U	0.021	0.039	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Bis(2-chloroisopropyl)ether	0.019	UY Z	0.0088	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Bis(2-ethylhexyl) phthalate	0.039	U	0.034	0.039	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Butyl benzyl phthalate	0.039	U	0.023	0.039	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Di-n-butyl phthalate	0.039	U	0.021	0.039	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Dibenzofuran	0.019	U	0.0098	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Hexachlorobutadiene	0.019	U	0.018	0.019	0.058	mg/Kg-dry	1	6/20/2016 7:58 PM
Hexachloroethane	0.019	U	0.0089	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Isophorone	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
N-Nitrosodimethylamine	0.019	UY	0.0094	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
N-Nitrosodiphenylamine	0.019	U	0.0093	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Pentachlorophenol	0.096	UY	0.072	0.096	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Phenol	0.096	U	0.041	0.096	0.18	mg/Kg-dry	1	6/20/2016 7:58 PM
Surr: 2,4,6-Tribromophenol	78.6			39-132		%Rec	1	6/20/2016 7:58 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 3:20:00 PM
Project: Camp Hero
Lab ID: 1606392-020 **Matrix:** Soil
Client Sample ID: H17-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	66.0			44-115		%Rec	1	6/20/2016 7:58 PM
Surr: 2-Fluorophenol	56.6			35-115		%Rec	1	6/20/2016 7:58 PM
Surr: Nitrobenzene-d5	62.6			37-122		%Rec	1	6/20/2016 7:58 PM
Surr: Phenol-d5	61.1			33-122		%Rec	1	6/20/2016 7:58 PM
Surr: Terphenyl-d14	72.0			54-127		%Rec	1	6/20/2016 7:58 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0016		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
2-Methylnaphthalene	0.0027		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Acenaphthene	0.00079		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Acenaphthylene	0.0013		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Anthracene	0.010		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Benz(a)anthracene	0.0098		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Benzo(a)pyrene	0.0077		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Benzo(b)fluoranthene	0.018	Y	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Benzo(g,h,i)perylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Benzo(k)fluoranthene	0.0033		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Chrysene	0.0079		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Dibenzo(a,h)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Fluoranthene	0.016		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Fluorene	0.0011		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Indeno(1,2,3-cd)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Naphthalene	0.0030		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Phenanthrene	0.012		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Pyrene	0.018		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/5/2016 9:33 PM
Surr: 2-Fluorobiphenyl	1.26	JQ		46-115		%Rec	1	7/5/2016 9:33 PM
Surr: Nitrobenzene-d5	87.9			44-125		%Rec	1	7/5/2016 9:33 PM
Surr: Terphenyl-d14	118			58-133		%Rec	1	7/5/2016 9:33 PM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.10	U	0.041	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
1,1,1-Trichloroethane	0.10	U	0.028	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
1,1,2,2-Tetrachloroethane	0.10	U	0.052	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
1,1,2-Trichloroethane	0.10	U	0.036	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
1,1-Dichloroethane	0.10	U	0.035	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
1,1-Dichloroethene	0.10	U	0.036	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
1,2,3-Trichloropropane	0.10	U	0.079	0.10	0.34	mg/Kg-dry	143.5	6/20/2016 2:10 PM
1,2-Dibromo-3-chloropropane	0.17	U	0.14	0.17	0.34	mg/Kg-dry	143.5	6/20/2016 2:10 PM
1,2-Dibromoethane	0.10	U	0.039	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
1,2-Dichloroethane	0.10	U	0.031	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
1,2-Dichloropropane	0.10	U	0.046	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
2-Butanone [MEK]	0.84	U	0.11	0.84	1.7	mg/Kg-dry	143.5	6/20/2016 2:10 PM
2-Hexanone	0.10	U	0.057	0.10	0.84	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Acetone	0.67	U	0.091	0.67	0.84	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Benzene	0.10	U	0.027	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 3:20:00 PM
Project:	Camp Hero		
Lab ID:	1606392-020	**Matrix:**	Soil
Client Sample ID:	H17-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.10	U	0.027	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Bromoform	0.10	UQ	0.035	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Carbon disulfide	0.10	U	0.076	0.10	0.34	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Carbon tetrachloride	0.10	UY	0.032	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Chlorobenzene	0.10	U	0.029	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Chlorodibromomethane	0.10	U	0.028	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Chloroethane	0.67	UYZ	0.30	0.67	0.84	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Chloroform	0.10	U	0.028	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Chloromethane	0.10	U	0.038	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
cis-1,2-Dichloroethene	0.10	U	0.036	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
cis-1,3-Dichloropropene	0.10	U	0.024	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Dichlorodifluoromethane [Freon-12]	0.10	U	0.033	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Ethylbenzene	0.10	U	0.035	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Methylene chloride	0.091	J	0.073	0.10	0.34	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Styrene	0.10	U	0.027	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Tetrachloroethene	0.10	U	0.039	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Toluene	0.10	U	0.035	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
trans-1,2-Dichloroethene	0.10	U	0.027	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
trans-1,3-Dichloropropene	0.10	U	0.034	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Trichloroethene	0.10	U	0.064	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Trichlorofluoromethane [Freon-11]	0.10	U	0.034	0.10	0.17	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Vinyl acetate	0.10	U	0.069	0.10	4.2	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Vinyl chloride	0.10	U	0.033	0.10	0.13	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Xylene (Total)	0.25	U	0.10	0.25	0.51	mg/Kg-dry	143.5	6/20/2016 2:10 PM
Surr: 4-Bromofluorobenzene	94.5			79-119		%Rec	143.5	6/20/2016 2:10 PM
Surr: Dibromofluoromethane	93.3			78-119		%Rec	143.5	6/20/2016 2:10 PM
Surr: Toluene-d8	88.6			85-116		%Rec	143.5	6/20/2016 2:10 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 2:25:00 PM
Project:	Camp Hero		
Lab ID:	1606392-021	**Matrix:**	Soil
Client Sample ID:	H17-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:32 AM
Aroclor 1221	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:32 AM
Aroclor 1232	0.0077	U	0.0052	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:32 AM
Aroclor 1242	0.0077	U	0.0043	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:32 AM
Aroclor 1248	0.0077	U	0.0041	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:32 AM
Aroclor 1254	0.0077	U	0.0049	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:32 AM
Aroclor 1260	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:32 AM
Aroclor 1262	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:32 AM
Aroclor 1268	0.0077	U	0.0028	0.0077	0.038	mg/Kg-dry	1	6/16/2016 7:32 AM
Surr: Tetrachloro-m-xylene	72.9			44-130		%Rec	1	6/16/2016 7:32 AM
Surr: Decachlorobiphenyl	80.9			60-125		%Rec	1	6/16/2016 7:32 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		57	150	380	mg/Kg-dry	100	7/13/2016 5:18 PM
Antimony	3.3		0.29	0.38	0.76	mg/Kg-dry	1	7/13/2016 3:36 PM
Arsenic	2.8		0.55	0.76	1.5	mg/Kg-dry	1	7/13/2016 3:36 PM
Barium	22		0.23	3.8	7.6	mg/Kg-dry	1	7/13/2016 3:36 PM
Beryllium	0.10	J	0.0097	0.038	0.19	mg/Kg-dry	1	7/13/2016 3:36 PM
Cadmium	0.038	U	0.025	0.038	0.19	mg/Kg-dry	1	7/13/2016 3:36 PM
Calcium	460		2.2	7.6	38	mg/Kg-dry	1	7/13/2016 3:36 PM
Chromium	16		0.063	0.31	0.38	mg/Kg-dry	1	7/13/2016 3:36 PM
Cobalt	3.3		0.069	0.19	0.76	mg/Kg-dry	1	7/13/2016 3:36 PM
Copper	29		0.32	0.76	3.8	mg/Kg-dry	1	7/13/2016 3:36 PM
Iron	12,000		24	38	110	mg/Kg-dry	10	7/13/2016 4:35 PM
Lead	5.2		0.48	0.76	3.8	mg/Kg-dry	1	7/13/2016 3:36 PM
Magnesium	1,300		2.7	3.8	38	mg/Kg-dry	1	7/13/2016 3:36 PM
Manganese	140		0.14	0.19	0.76	mg/Kg-dry	1	7/13/2016 3:36 PM
Nickel	8.3		0.22	0.76	3.8	mg/Kg-dry	1	7/13/2016 3:36 PM
Potassium	520		1.8	7.6	15	mg/Kg-dry	1	7/13/2016 3:36 PM
Selenium	1.1	U	0.89	1.1	1.5	mg/Kg-dry	1	7/13/2016 3:36 PM
Silver	0.19	U	0.062	0.19	0.76	mg/Kg-dry	1	7/13/2016 3:36 PM
Sodium	53		1.6	3.8	38	mg/Kg-dry	1	7/13/2016 3:36 PM
Vanadium	21		0.097	0.76	1.9	mg/Kg-dry	1	7/13/2016 3:36 PM
Zinc	19		0.29	0.38	3.8	mg/Kg-dry	1	7/13/2016 3:36 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.082	J	0.037	0.039	0.15	mg/Kg-dry	10	7/15/2016 3:16 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
1,2-Dichlorobenzene	0.019	U	0.0082	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
1,3-Dichlorobenzene	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
1,4-Dichlorobenzene	0.019	U	0.0061	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM

RTI Laboratories - Analytical Report

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 2:25:00 PM
Project: Camp Hero
Lab ID: 1606392-021 **Matrix:** Soil
Client Sample ID: H17-SS03-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
2,4-Dichlorophenol	0.095	U	0.033	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
2,4-Dimethyl phenol	0.095	U	0.036	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.95	mg/Kg-dry	1	6/20/2016 8:23 PM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
2-Chlorophenol	0.095	U	0.040	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
2-Methylphenol (o-Cresol)	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
2-Nitroaniline	0.019	U	0.0093	0.019	0.37	mg/Kg-dry	1	6/20/2016 8:23 PM
2-Nitrophenol	0.095	U	0.047	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
3,3´-Dichlorobenzidine	0.76	U	0.49	0.76	1.1	mg/Kg-dry	1	6/20/2016 8:23 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	6/20/2016 8:23 PM
3/4-Methylphenol [m/p-Cresol]	0.095	U	0.068	0.095	0.37	mg/Kg-dry	1	6/20/2016 8:23 PM
4,6-Dinitro-2-methylphenol	0.095	UY	0.055	0.095	0.37	mg/Kg-dry	1	6/20/2016 8:23 PM
4-Bromophenyl phenyl ether	0.095	U	0.049	0.095	0.23	mg/Kg-dry	1	6/20/2016 8:23 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
4-Chloroaniline [p-Chloroaniline]	0.095	U	0.029	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
4-Nitroaniline	0.095	U	0.027	0.095	0.37	mg/Kg-dry	1	6/20/2016 8:23 PM
4-Nitrophenol	0.38	U	0.27	0.38	0.95	mg/Kg-dry	1	6/20/2016 8:23 PM
Benzoic acid	0.38	UYZ	0.15	0.38	1.1	mg/Kg-dry	1	6/20/2016 8:23 PM
Benzyl alcohol	0.019	U	0.0092	0.019	0.75	mg/Kg-dry	1	6/20/2016 8:23 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0087	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.034	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Butyl benzyl phthalate	0.038	U	0.023	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Di-n-butyl phthalate	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Dibenzofuran	0.019	U	0.0097	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.057	mg/Kg-dry	1	6/20/2016 8:23 PM
Hexachloroethane	0.019	U	0.0088	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Isophorone	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
N-Nitrosodimethylamine	0.019	UY	0.0093	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
N-Nitrosodiphenylamine	0.019	U	0.0092	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Pentachlorophenol	0.095	UY	0.072	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Phenol	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:23 PM
Surr: 2,4,6-Tribromophenol	72.1			39-132		%Rec	1	6/20/2016 8:23 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/9/2016 2:25:00 PM
Project: Camp Hero
Lab ID: 1606392-021 **Matrix:** Soil
Client Sample ID: H17-SS03-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	62.1			44-115		%Rec	1	6/20/2016 8:23 PM
Surr: 2-Fluorophenol	56.6			35-115		%Rec	1	6/20/2016 8:23 PM
Surr: Nitrobenzene-d5	59.9			37-122		%Rec	1	6/20/2016 8:23 PM
Surr: Phenol-d5	57.0			33-122		%Rec	1	6/20/2016 8:23 PM
Surr: Terphenyl-d14	68.0			54-127		%Rec	1	6/20/2016 8:23 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0016	G	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
2-Methylnaphthalene	0.0028	G	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Acenaphthene	0.0011		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Acenaphthylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Anthracene	0.0018		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Benz(a)anthracene	0.0089		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Benzo(a)pyrene	0.0079		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Benzo(b)fluoranthene	0.011		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Benzo(g,h,i)perylene	0.0057		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Benzo(k)fluoranthene	0.0053		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Chrysene	0.0081		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Dibenzo(a,h)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Fluoranthene	0.020		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Fluorene	0.00092		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Indeno(1,2,3-cd)pyrene	0.0061		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Naphthalene	0.0032		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Phenanthrene	0.0089		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Pyrene	0.016		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/27/2016 12:41 PM
Surr: 2-Fluorobiphenyl	95.1			46-115		%Rec	1	7/27/2016 12:41 PM
Surr: Nitrobenzene-d5	104			44-125		%Rec	1	7/27/2016 12:41 PM
Surr: Terphenyl-d14	104			58-133		%Rec	1	7/27/2016 12:41 PM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.072	U	0.029	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
1,1,1-Trichloroethane	0.072	U	0.020	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
1,1,2,2-Tetrachloroethane	0.072	U	0.037	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
1,1,2-Trichloroethane	0.072	U	0.025	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
1,1-Dichloroethane	0.072	U	0.025	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
1,1-Dichloroethene	0.072	U	0.026	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
1,2,3-Trichloropropane	0.072	U	0.056	0.072	0.24	mg/Kg-dry	103.2	6/20/2016 2:35 PM
1,2-Dibromo-3-chloropropane	0.12	U	0.10	0.12	0.24	mg/Kg-dry	103.2	6/20/2016 2:35 PM
1,2-Dibromoethane	0.072	U	0.028	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
1,2-Dichloroethane	0.072	U	0.022	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
1,2-Dichloropropane	0.072	U	0.033	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
2-Butanone [MEK]	0.60	U	0.082	0.60	1.2	mg/Kg-dry	103.2	6/20/2016 2:35 PM
2-Hexanone	0.072	U	0.041	0.072	0.60	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Acetone	0.48	U	0.065	0.48	0.60	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Benzene	0.072	U	0.020	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/9/2016 2:25:00 PM
Project:	Camp Hero		
Lab ID:	1606392-021	**Matrix:**	Soil
Client Sample ID:	H17-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.072	U	0.019	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Bromoform	0.072	UQ	0.025	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Carbon disulfide	0.072	U	0.055	0.072	0.24	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Carbon tetrachloride	0.072	UY	0.023	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Chlorobenzene	0.072	U	0.021	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Chlorodibromomethane	0.072	U	0.020	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Chloroethane	0.48	UYZ	0.22	0.48	0.60	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Chloroform	0.072	U	0.020	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Chloromethane	0.072	U	0.027	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
cis-1,2-Dichloroethene	0.072	U	0.026	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
cis-1,3-Dichloropropene	0.072	U	0.017	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Dichlorodifluoromethane [Freon-12]	0.072	U	0.024	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Ethylbenzene	0.072	U	0.025	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Methylene chloride	0.055	J	0.052	0.072	0.24	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Styrene	0.072	U	0.019	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Tetrachloroethene	0.072	U	0.028	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Toluene	0.072	U	0.025	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
trans-1,2-Dichloroethene	0.072	U	0.019	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
trans-1,3-Dichloropropene	0.072	U	0.024	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Trichloroethene	0.072	U	0.046	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Trichlorofluoromethane [Freon-11]	0.072	U	0.024	0.072	0.12	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Vinyl acetate	0.072	U	0.049	0.072	3.0	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Vinyl chloride	0.072	U	0.024	0.072	0.096	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Xylene (Total)	0.18	U	0.074	0.18	0.36	mg/Kg-dry	103.2	6/20/2016 2:35 PM
Surr: 4-Bromofluorobenzene	95.2			79-119		%Rec	103.2	6/20/2016 2:35 PM
Surr: Dibromofluoromethane	93.0			78-119		%Rec	103.2	6/20/2016 2:35 PM
Surr: Toluene-d8	88.6			85-116		%Rec	103.2	6/20/2016 2:35 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	14	1.0	1.0	1.0	wt%	1	6/14/2016 1:30 PM

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Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606392-001A	BG02-SS01-01	6/10/2016 9:35 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/28/2016 6:31 AM
1606392-001B	BG02-SS01-01	6/10/2016 9:35 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:13 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 12:40 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:07 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:27 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:19 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606392-002A	BG02-SB01-05	6/10/2016 9:40 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/28/2016 6:59 AM
1606392-002B	BG02-SB01-05	6/10/2016 9:40 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:23 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 12:41 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:08 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:29 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:20 PM
				PMOIST-Percent Moisture		6/14/2016 12:45 PM	6/14/2016 12:45 PM
1606392-003A	BG02-SB01-06	6/10/2016 9:40 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/28/2016 7:28 AM
1606392-003B	BG02-SB01-06	6/10/2016 9:40 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:24 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 12:42 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:10 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:30 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:22 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-004A	BG02-SS02-01	6/10/2016 10:05 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/28/2016 7:56 AM
1606392-004B	BG02-SS02-01	6/10/2016 10:05 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:25 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 12:43 PM

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WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606392-004B	BG02-SS02-01	6/10/2016 10:05 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:11 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:31 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:23 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-005A	BG02-SB02-05	6/10/2016 10:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/28/2016 2:17 AM
1606392-005B	BG02-SB02-05	6/10/2016 10:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:07 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 12:12 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:59 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:19 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 4:58 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-006A	BG02-SB02-10	6/10/2016 10:20 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/28/2016 8:25 AM
1606392-006B	BG02-SB02-10	6/10/2016 10:20 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:27 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:08 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:39 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:59 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:35 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-007A	BG02-SS03-01	6/10/2016 9:05 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 5:16 AM
1606392-007B	BG02-SS03-01	6/10/2016 9:05 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:28 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:09 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:41 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 3:00 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:36 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM

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WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606392-008A	BG02-SB03-05	6/10/2016 9:10 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 5:45 AM
1606392-008B	BG02-SB03-05	6/10/2016 9:10 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:30 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:10 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:42 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 3:02 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:37 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-009A	BG02-SB03-10	6/10/2016 9:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 6:14 AM
1606392-009B	BG02-SB03-10	6/10/2016 9:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:31 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:12 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:43 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 3:03 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:39 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:53 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/7/2016 2:16 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-010A	BG02-SS04-01	6/10/2016 8:45 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 6:43 AM
1606392-010B	BG02-SS04-01	6/10/2016 8:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:42 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:13 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:44 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 3:04 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:40 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-011A	BG02-SB04-04	6/10/2016 8:55 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 7:12 AM

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WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606392-011B	BG02-SB04-04	6/10/2016 8:55 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:43 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:14 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:46 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 3:05 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:41 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-012A	BG02-SB04-05	6/10/2016 8:50 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 7:41 AM
1606392-012B	BG02-SB04-05	6/10/2016 8:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:44 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:16 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:47 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 3:07 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:43 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-013A	BG02-SB04-05 DUP	6/10/2016 8:50 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 8:10 AM
1606392-013B	BG02-SB04-05 DUP	6/10/2016 8:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:44 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:17 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:48 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 3:08 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:44 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-014A	BG02-SS05-01	6/10/2016 9:55 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 8:39 AM
1606392-014B	BG02-SS05-01	6/10/2016 9:55 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:45 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:18 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:50 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 3:09 PM

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WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606392-014B	BG02-SS05-01	6/10/2016 9:55 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:45 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-015A	BG02-SS06-01	6/10/2016 9:25 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 9:08 AM
1606392-015B	BG02-SS06-01	6/10/2016 9:25 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:46 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 1:19 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 2:51 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/1/2016 3:11 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 8:44 AM	7/5/2016 5:47 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-016A	BG02-SS07-01	6/10/2016 9:00 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 9:37 AM
1606392-016B	BG02-SS07-01	6/10/2016 9:00 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:47 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:31 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:30 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:13 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-017A	BG02-SS08-01	6/10/2016 8:40 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 10:08 AM
1606392-017B	BG02-SS08-01	6/10/2016 8:40 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/11/2016 3:24 PM	7/12/2016 11:48 AM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:32 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:31 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:14 PM
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-018A	TB-SO-060916-01	6/9/2016 9:10 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/15/2016 9:50 AM	6/15/2016 9:50 AM
1606392-019B	H17-SS01-01	6/9/2016 1:40 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/20/2016 1:45 PM	6/20/2016 1:45 PM

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WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606392-019D	H17-SS01-01	6/9/2016 1:40 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/16/2016 12:47 PM	6/29/2016 10:37 AM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 7:33 PM
1606392-019E	H17-SS01-01	6/9/2016 1:40 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 6:44 AM
1606392-019F	H17-SS01-01	6/9/2016 1:40 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:14 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:34 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:32 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:15 PM
1606392-019G	H17-SS01-01	6/9/2016 1:40 PM	Soil				
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-020B	H17-SS02-01	6/9/2016 3:20 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/20/2016 2:10 PM	6/20/2016 2:10 PM
1606392-020D	H17-SS02-01	6/9/2016 3:20 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 7:58 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 5:43 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/5/2016 9:33 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/27/2016 12:14 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/27/2016 5:49 PM
1606392-020E	H17-SS02-01	6/9/2016 3:20 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 7:08 AM
1606392-020F	H17-SS02-01	6/9/2016 3:20 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:15 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:35 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:33 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:16 PM
1606392-020G	H17-SS02-01	6/9/2016 3:20 PM	Soil				
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM
1606392-021B	H17-SS03-01	6/9/2016 2:25 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/20/2016 2:35 PM	6/20/2016 2:35 PM

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WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606392-021D	H17-SS03-01	6/9/2016 2:25 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 8:23 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/27/2016 12:41 PM
1606392-021E	H17-SS03-01	6/9/2016 2:25 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 7:32 AM
				SW_8082S-Polychlorinated Biphenyls		6/14/2016 7:59 AM	6/16/2016 12:34 PM
1606392-021F	H17-SS03-01	6/9/2016 2:25 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:16 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:36 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:35 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:18 PM
1606392-021G	H17-SS03-01	6/9/2016 2:25 PM	Soil				
				PMOIST-Percent Moisture		6/14/2016 1:30 PM	6/14/2016 1:30 PM

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WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40135**

Sample ID:	MB-40135	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	PBS	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1681847

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	650		830.3		78.0	39	132				
Surr: 2-Fluorobiphenyl	650		830.3		77.9	44	115				
Surr: 2-Fluorophenol	610		830.3		73.2	35	115				
Surr: Nitrobenzene-d5	640		830.3		76.6	37	122				
Surr: Phenol-d5	610		830.3		73.5	33	122				
Surr: Terphenyl-d14	700		830.3		84.0	54	127				

Sample ID:	LCS-40135	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	LCSS	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1711394

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	650		830.6		78.8	39	132				
Surr: 2-Fluorobiphenyl	620		830.6		74.6	44	115				
Surr: 2-Fluorophenol	590		830.6		71.2	35	115				
Surr: Nitrobenzene-d5	610		830.6		73.7	37	122				
Surr: Phenol-d5	600		830.6		72.8	33	122				
Surr: Terphenyl-d14	690		830.6		83.6	54	127				

Sample ID:	1606293-005DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	ZZZZZZ	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1711396

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	610		956.1		63.6	39	132				
Surr: 2-Fluorobiphenyl	530		956.1		55.0	44	115				
Surr: 2-Fluorophenol	500		956.1		52.8	35	115				
Surr: Nitrobenzene-d5	520		956.1		54.2	37	122				
Surr: Phenol-d5	510		956.1		53.8	33	122				
Surr: Terphenyl-d14	580		956.1		61.1	54	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40135**

Sample ID:	1606293-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	ZZZZZZ	Batch ID:	40135	TestNo:	SW8270C	SW3546		Analysis Date:	6/14/2016	SeqNo:	1711397

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	630		958.9		66.2	39	132		0	25	
Surr: 2-Fluorobiphenyl	530		958.9		55.6	44	115		0	25	
Surr: 2-Fluorophenol	530		958.9		55.7	35	115		0	25	
Surr: Nitrobenzene-d5	540		958.9		56.2	37	122		0	25	
Surr: Phenol-d5	540		958.9		56.5	33	122		0	25	
Surr: Terphenyl-d14	620		958.9		64.3	54	127		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40136**

Sample ID:	1606353-001BMS	Samp Type:	MS	Test Code:	SW_8270S	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	ZZZZZZ	Batch ID:	40136	TestNo:	SW8270C	SW3550C		Analysis Date:	6/14/2016	SeqNo:	1711398

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	1,200		1,425		87.1	39	132				
Surr: 2-Fluorobiphenyl	940		1,425		65.9	44	115				
Surr: 2-Fluorophenol	870		1,425		61.3	35	115				
Surr: Nitrobenzene-d5	900		1,425		63.3	37	122				
Surr: Phenol-d5	940		1,425		65.9	33	122				
Surr: Terphenyl-d14	1,200		1,425		80.7	54	127				

Sample ID:	1606353-001BMSD	Samp Type:	MSD	Test Code:	SW_8270S	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	ZZZZZZ	Batch ID:	40136	TestNo:	SW8270C	SW3550C		Analysis Date:	6/14/2016	SeqNo:	1711399

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	1,200		1,408		86.9	39	132		0	25	
Surr: 2-Fluorobiphenyl	950		1,408		67.4	44	115		0	25	
Surr: 2-Fluorophenol	860		1,408		61.4	35	115		0	25	
Surr: Nitrobenzene-d5	940		1,408		66.7	37	122		0	25	
Surr: Phenol-d5	920		1,408		65.7	33	122		0	25	
Surr: Terphenyl-d14	1,200		1,408		84.2	54	127		0	25	

Sample ID:	MB-40136	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	PBS	Batch ID:	40136	TestNo:	SW8270C	SW3550C		Analysis Date:	6/14/2016	SeqNo:	1681849

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	660		832.8		78.7	39	132				
Surr: 2-Fluorobiphenyl	620		832.8		74.5	44	115				
Surr: 2-Fluorophenol	590		832.8		70.8	35	115				
Surr: Nitrobenzene-d5	630		832.8		75.6	37	122				
Surr: Phenol-d5	600		832.8		72.0	33	122				
Surr: Terphenyl-d14	680		832.8		81.6	54	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40136**

Sample ID:	LCS-40136	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	%Rec	Prep Date:	6/13/2016	RunNo:	86688
Client ID:	LCSS	Batch ID:	40136	TestNo:	SW8270C	SW3550C		Analysis Date:	6/14/2016	SeqNo:	1711395

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	750		833.1		90.4	39	132				
Surr: 2-Fluorobiphenyl	640		833.1		77.3	44	115				
Surr: 2-Fluorophenol	620		833.1		74.0	35	115				
Surr: Nitrobenzene-d5	670		833.1		80.2	37	122				
Surr: Phenol-d5	640		833.1		76.9	33	122				
Surr: Terphenyl-d14	730		833.1		87.1	54	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40143**

Sample ID:	LCS-40143	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86731
Client ID:	LCSS	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/15/2016	SeqNo:	1682619

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.033	0.17	0	82.7	46	129				
Aroclor 1260	0.16	0.033	0.17	0	95.0	45	134				
Surr: Tetrachloro-m-xylene	6.1		8.308		73.6	44	130				
Surr: Decachlorobiphenyl	7.2		8.308		87.0	40	135				

Sample ID:	MB-40143	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86731
Client ID:	PBS	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/15/2016	SeqNo:	1682621

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.0066	0.033									U
Aroclor 1221	0.0066	0.033									U
Aroclor 1232	0.0066	0.033									U
Aroclor 1242	0.0066	0.033									U
Aroclor 1248	0.0066	0.033									U
Aroclor 1254	0.0066	0.033									U
Aroclor 1260	0.0066	0.033									U
Aroclor 1262	0.0066	0.033									U
Aroclor 1268	0.0066	0.033									U
Surr: Tetrachloro-m-xylene	5.9		8.305		71.4	44	130				
Surr: Decachlorobiphenyl	6.3		8.305		75.9	60	125				

Sample ID:	1606286-001BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/14/2016	RunNo:	86760
Client ID:	ZZZZZZ	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.18	0.039	0.20	0	92.7	46	129				
Aroclor 1260	0.18	0.039	0.20	0	93.3	45	134				
Surr: Tetrachloro-m-xylene	9.1		9.769		93.0	44	130				
Surr: Decachlorobiphenyl	9.1		9.769		92.9	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40143**

Sample ID:	1606286-001BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/14/2016	RunNo:	86760
Client ID:	ZZZZZZ	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683225

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.16	0.039	0.20	0	82.3	46	129	0.18	11.6	25	
Aroclor 1260	0.17	0.039	0.20	0	87.7	45	134	0.18	5.81	25	
Surr: Tetrachloro-m-xylene	6.9		9.801		69.9	44	130		0	25	
Surr: Decachlorobiphenyl	8.0		9.801		81.8	40	135		0	25	

Sample ID:	LCS-40143	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86907
Client ID:	LCSS	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/15/2016	SeqNo:	1686263

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.033	0.17	0	89.8	46	129				
Aroclor 1260	0.16	0.033	0.17	0	98.2	45	134				
Surr: Tetrachloro-m-xylene	6.0		8.308		72.3	44	130				
Surr: Decachlorobiphenyl	7.4		8.308		89.6	40	135				

Sample ID:	MB-40143	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/14/2016	RunNo:	86907
Client ID:	PBS	Batch ID:	40143	TestNo:	SW8082	SW3546		Analysis Date:	6/15/2016	SeqNo:	1686265

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.0066	0.033									U
Aroclor 1221	0.0066	0.033									U
Aroclor 1232	0.0066	0.033									U
Aroclor 1242	0.0066	0.033									U
Aroclor 1248	0.0066	0.033									U
Aroclor 1254	0.0066	0.033									U
Aroclor 1260	0.0066	0.033									U
Aroclor 1262	0.0066	0.033									U
Aroclor 1268	0.0066	0.033									U
Surr: Tetrachloro-m-xylene	5.8		8.305		69.8	44	130				
Surr: Decachlorobiphenyl	6.5		8.305		78.7	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40144

Sample ID:	1606293-005EMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	%Rec	Prep Date:	6/14/2016	RunNo:	86760	
Client ID:	ZZZZZZ	Batch ID:	40144	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683235	
Analyte		Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene		4.1		9.748		42.0	44	130				Q
Surr: Decachlorobiphenyl		6.6		9.748		67.4	40	135				

Sample ID:	1606293-005EMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	%Rec	Prep Date:	6/14/2016	RunNo:	86760	
Client ID:	ZZZZZZ	Batch ID:	40144	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683236	
Analyte		Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene		5.6		9.777		56.8	44	130		0	25	
Surr: Decachlorobiphenyl		5.6		9.777		56.8	40	135		0	25	

Sample ID:	LCS-40144	Samp Type:	LCS	Test Code:	SW_8082S	Units:	%Rec	Prep Date:	6/14/2016	RunNo:	86760	
Client ID:	LCSS	Batch ID:	40144	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683255	
Analyte		Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene		8.2		8.325		98.0	44	130				
Surr: Decachlorobiphenyl		8.4		8.325		101	40	135				

Sample ID:	MB-40144	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	%Rec	Prep Date:	6/14/2016	RunNo:	86760	
Client ID:	PBS	Batch ID:	40144	TestNo:	SW8082	SW3546		Analysis Date:	6/16/2016	SeqNo:	1683256	
Analyte		Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene		5.1		8.308		60.8	44	130				
Surr: Decachlorobiphenyl		5.4		8.308		65.3	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	MB-40178	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	PBS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701925

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00066	0.00066									U
2-Methylnaphthalene	0.00066	0.00066									U
Acenaphthene	0.00066	0.00066									U
Acenaphthylene	0.00066	0.00066									U
Anthracene	0.00066	0.00066									U
Benz(a)anthracene	0.00066	0.00066									U
Benzo(a)pyrene	0.00066	0.00066									U
Benzo(b)fluoranthene	0.00066	0.00066									U
Benzo(g,h,i)perylene	0.00066	0.00066									U
Benzo(k)fluoranthene	0.00066	0.00066									U
Chrysene	0.00066	0.00066									U
Dibenzo(a,h)anthracene	0.00066	0.00066									U
Fluoranthene	0.00066	0.00066									U
Fluorene	0.00066	0.00066									U
Indeno(1,2,3-cd)pyrene	0.00066	0.00066									U
Naphthalene	0.00066	0.00066									U
Phenanthrene	0.00066	0.00066									U
Pyrene	0.00066	0.00066									U
Surr: 2-Fluorobiphenyl	13		16.50		80.9	46	115				
Surr: Nitrobenzene-d5	14		16.50		84.4	44	125				
Surr: Terphenyl-d14	16		16.50		95.3	58	133				

Sample ID:	LCS-40178	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	LCSS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701926

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.012	0.00066	0.013	0	89.0	43	111				
2-Methylnaphthalene	0.013	0.00066	0.013	0	102	39	114				
Acenaphthene	0.013	0.00066	0.013	0	98.9	44	111				
Acenaphthylene	0.013	0.00066	0.013	0	97.5	39	116				
Anthracene	0.013	0.00066	0.013	0	99.7	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	LCS-40178	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	LCSS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701926

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.015	0.00066	0.013	0	117	54	122				
Benzo(a)pyrene	0.012	0.00066	0.013	0	92.2	50	125				
Benzo(b)fluoranthene	0.016	0.00066	0.013	0	124	53	128				
Benzo(g,h,i)perylene	0.014	0.00066	0.013	0	109	49	127				
Benzo(k)fluoranthene	0.012	0.00066	0.013	0	89.1	56	123				
Chrysene	0.013	0.00066	0.013	0	95.6	57	118				
Dibenzo(a,h)anthracene	0.015	0.00066	0.013	0	114	50	129				
Fluoranthene	0.013	0.00066	0.013	0	98.0	55	119				
Fluorene	0.014	0.00066	0.013	0	106	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00066	0.013	0	109	49	130				
Naphthalene	0.013	0.00066	0.013	0	95.8	38	111				
Phenanthrene	0.014	0.00066	0.013	0	107	49	113				
Pyrene	0.014	0.00066	0.013	0	105	55	117				
Surr: 2-Fluorobiphenyl	14		16.54		81.7	46	115				
Surr: Nitrobenzene-d5	14		16.54		84.1	44	125				
Surr: Terphenyl-d14	16		16.54		94.9	58	133				

Sample ID:	1606392-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	BG02-SB02-05MS1	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701928

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00070	0.014	0	93.9	43	111				
2-Methylnaphthalene	0.015	0.00070	0.014	0	105	39	114				
Acenaphthene	0.014	0.00070	0.014	0	101	44	111				
Acenaphthylene	0.014	0.00070	0.014	0	103	39	116				
Anthracene	0.014	0.00070	0.014	0	102	50	114				
Benz(a)anthracene	0.017	0.00070	0.014	0	124	54	122				Q
Benzo(a)pyrene	0.013	0.00070	0.014	0	96.8	50	125				
Benzo(b)fluoranthene	0.015	0.00070	0.014	0	110	53	128				
Benzo(g,h,i)perylene	0.016	0.00070	0.014	0	113	49	127				
Benzo(k)fluoranthene	0.014	0.00070	0.014	0	104	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID: **1606392-005AMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/16/2016** RunNo: **87615**

Client ID: **BG02-SB02-05MS1** Batch ID: **40178** TestNo: **SW8270C** **SW3550C** Analysis Date: **6/28/2016** SeqNo: **1701928**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.014	0.00070	0.014	0	97.2	57	118				
Dibenzo(a,h)anthracene	0.016	0.00070	0.014	0	117	50	129				
Fluoranthene	0.014	0.00070	0.014	0	102	55	119				
Fluorene	0.015	0.00070	0.014	0	109	47	114				
Indeno(1,2,3-cd)pyrene	0.016	0.00070	0.014	0	114	49	130				
Naphthalene	0.014	0.00070	0.014	0	99.9	38	111				
Phenanthrene	0.016	0.00070	0.014	0	115	49	113				Q
Pyrene	0.015	0.00070	0.014	0	109	55	117				
Surr: 2-Fluorobiphenyl	15		17.40		83.7	46	115				
Surr: Nitrobenzene-d5	17		17.40		94.9	44	125				
Surr: Terphenyl-d14	17		17.40		96.9	58	133				

Sample ID: **1606392-005AMSD** Samp Type: **MSD** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/16/2016** RunNo: **87615**

Client ID: **BG02-SB02-05SD1** Batch ID: **40178** TestNo: **SW8270C** **SW3550C** Analysis Date: **6/28/2016** SeqNo: **1701929**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00070	0.014	0	91.1	43	111	0.013	3.44	25	
2-Methylnaphthalene	0.014	0.00070	0.014	0	102	39	114	0.015	3.60	25	
Acenaphthene	0.014	0.00070	0.014	0	100	44	111	0.014	1.47	25	
Acenaphthylene	0.014	0.00070	0.014	0	99.8	39	116	0.014	2.99	25	
Anthracene	0.014	0.00070	0.014	0	101	50	114	0.014	1.28	25	
Benz(a)anthracene	0.017	0.00070	0.014	0	120	54	122	0.017	3.59	25	
Benzo(a)pyrene	0.013	0.00070	0.014	0	95.3	50	125	0.013	1.93	25	
Benzo(b)fluoranthene	0.017	0.00070	0.014	0	126	53	128	0.015	13.6	25	
Benzo(g,h,i)perylene	0.015	0.00070	0.014	0	110	49	127	0.016	2.66	25	
Benzo(k)fluoranthene	0.013	0.00070	0.014	0	90.8	56	123	0.014	13.9	25	
Chrysene	0.013	0.00070	0.014	0	96.9	57	118	0.014	0.628	25	
Dibenzo(a,h)anthracene	0.016	0.00070	0.014	0	116	50	129	0.016	1.32	25	
Fluoranthene	0.014	0.00070	0.014	0	99.3	55	119	0.014	2.83	25	
Fluorene	0.015	0.00070	0.014	0	107	47	114	0.015	1.48	25	
Indeno(1,2,3-cd)pyrene	0.016	0.00070	0.014	0	112	49	130	0.016	1.82	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	1606392-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	BG02-SB02-05SD1	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701929

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.013	0.00070	0.014	0	96.3	38	111	0.014	3.99	25	
Phenanthrene	0.016	0.00070	0.014	0	112	49	113	0.016	2.33	25	
Pyrene	0.015	0.00070	0.014	0	107	55	117	0.015	1.85	25	
Surr: 2-Fluorobiphenyl	14		17.35		82.3	46	115		0	25	
Surr: Nitrobenzene-d5	16		17.35		92.5	44	125		0	25	
Surr: Terphenyl-d14	17		17.35		97.4	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	MB-40191	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	PBS	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1684396

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.016	0.16									U
1,2-Dichlorobenzene	0.016	0.16									U
1,3-Dichlorobenzene	0.016	0.16									U
1,4-Dichlorobenzene	0.016	0.16									U
2,4,5-Trichlorophenol	0.033	0.16									U
2,4,6-Trichlorophenol	0.033	0.16									U
2,4-Dichlorophenol	0.082	0.16									U
2,4-Dimethyl phenol	0.082	0.16									U
2,4-Dinitrophenol	0.16	0.82									UY
2,4-Dinitrotoluene	0.016	0.16									U
2,6-Dinitrotoluene	0.016	0.16									U
2-Chloronaphthalene	0.016	0.16									U
2-Chlorophenol	0.082	0.16									U
2-Methylphenol (o-Cresol)	0.082	0.16									U
2-Nitroaniline	0.016	0.32									U
2-Nitrophenol	0.082	0.16									U
3,3´-Dichlorobenzidine	0.66	0.99									U
3-Nitroaniline	0.016	0.32									U
3/4-Methylphenol [m/p-Cresol]	0.082	0.32									U
4,6-Dinitro-2-methylphenol	0.082	0.32									UY
4-Bromophenyl phenyl ether	0.082	0.20									U
4-Chloro-3-methylphenol	0.033	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.082	0.16									U
4-Chlorophenyl phenyl ether	0.016	0.16									U
4-Nitroaniline	0.082	0.32									U
4-Nitrophenol	0.33	0.82									U
Benzoic acid	0.33	0.99									UYZ
Benzyl alcohol	0.016	0.65									U
Bis(2-chloroethoxy) methane	0.016	0.16									U
Bis(2-chloroethyl) ether	0.033	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	MB-40191	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	PBS	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1684396

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.016	0.16									UYZ
Bis(2-ethylhexyl) phthalate	0.033	0.16									U
Butyl benzyl phthalate	0.033	0.16									U
Carbazole	0.016	0.16									U
Di-n-butyl phthalate	0.033	0.16									U
Di-n-octyl phthalate	0.016	0.16									U
Dibenzofuran	0.016	0.16									U
Diethyl phthalate	0.016	0.16									U
Dimethyl phthalate	0.016	0.16									U
Hexachlorobenzene	0.016	0.16									U
Hexachlorobutadiene	0.016	0.049									U
Hexachloroethane	0.016	0.16									U
Isophorone	0.016	0.16									U
N-Nitroso-di-n-propylamine	0.016	0.16									U
N-Nitrosodimethylamine	0.016	0.16									UY
N-Nitrosodiphenylamine	0.016	0.16									U
Nitrobenzene	0.016	0.16									U
Pentachlorophenol	0.082	0.16									UY
Phenol	0.082	0.16									U
Surr: 2,4,6-Tribromophenol	750		824.8		90.9	39	132				
Surr: 2-Fluorobiphenyl	670		824.8		81.8	44	115				
Surr: 2-Fluorophenol	500		824.8		60.4	35	115				
Surr: Nitrobenzene-d5	590		824.8		71.7	37	122				
Surr: Phenol-d5	490		824.8		59.5	33	122				
Surr: Terphenyl-d14	710		824.8		86.4	54	127				

Sample ID:	LCS-40191	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	LCSS	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711437

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.53	0.16	0.66	0	79.7	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**LCS-40191**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**LCSS**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711437**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.50	0.16	0.66	0	76.1	33	117				
1,3-Dichlorobenzene	0.49	0.16	0.66	0	74.3	30	115				
1,4-Dichlorobenzene	0.50	0.16	0.66	0	75.0	31	115				
2,4,5-Trichlorophenol	0.57	0.16	0.66	0	86.9	41	124				
2,4,6-Trichlorophenol	0.63	0.16	0.66	0	95.7	39	126				
2,4-Dichlorophenol	0.40	0.16	0.66	0	60.7	40	122				
2,4-Dimethyl phenol	0.51	0.16	0.66	0	77.7	30	127				
2,4-Dinitrophenol	1.8	0.82	1.7	0	107	50	130				JY
2,4-Dinitrotoluene	0.64	0.16	0.66	0	96.7	48	126				
2,6-Dinitrotoluene	0.57	0.16	0.66	0	86.4	46	124				
2-Chloronaphthalene	0.49	0.16	0.66	0	73.9	41	114				
2-Chlorophenol	0.54	0.16	0.66	0	81.6	34	121				
2-Methylphenol (o-Cresol)	0.54	0.16	0.66	0	81.5	32	122				
2-Nitroaniline	0.54	0.32	0.66	0	81.8	44	127				
2-Nitrophenol	0.60	0.16	0.66	0	90.3	36	123				
3,3´-Dichlorobenzidine	0.55	0.99	0.66	0	83.4	22	121				J
3-Nitroaniline	0.55	0.32	0.66	0	83.8	33	119				
3/4-Methylphenol [m/p-Cresol]	0.98	0.32	1.3	0	73.9	34	119				
4,6-Dinitro-2-methylphenol	0.75	0.32	0.66	0	113	29	132				Y
4-Bromophenyl phenyl ether	0.50	0.20	0.66	0	75.0	46	124				
4-Chloro-3-methylphenol	0.62	0.16	0.66	0	93.6	45	122				
4-Chloroaniline [p-Chloroaniline]	0.43	0.16	0.66	0	65.4	17	106				
4-Chlorophenyl phenyl ether	0.57	0.16	0.66	0	86.5	45	121				
4-Nitroaniline	0.51	0.32	0.66	0	76.7	50	130				
4-Nitrophenol	1.4	0.82	1.7	0	83.6	30	132				
Benzoic acid	1.4	0.99	1.3	0	106	40	117				YZ
Benzyl alcohol	0.48	0.65	0.66	0	72.1	29	122				J
Bis(2-chloroethoxy) methane	0.47	0.16	0.66	0	71.5	36	121				
Bis(2-chloroethyl) ether	0.45	0.16	0.66	0	67.8	31	120				
Bis(2-chloroisopropyl)ether	0.47	0.16	0.66	0	71.5	33	131				YZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	LCS-40191	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	LCSS	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711437

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.57	0.16	0.66	0	86.3	51	133				
Butyl benzyl phthalate	0.56	0.16	0.66	0	84.9	48	132				
Carbazole	0.53	0.16	0.66	0	80.3	50	123				
Di-n-butyl phthalate	0.53	0.16	0.66	0	79.7	51	128				
Di-n-octyl phthalate	0.54	0.16	0.66	0	82.2	45	140				
Dibenzofuran	0.53	0.16	0.66	0	80.8	44	120				
Diethyl phthalate	0.56	0.16	0.66	0	84.6	50	124				
Dimethyl phthalate	0.53	0.16	0.66	0	80.9	48	124				
Hexachlorobenzene	0.49	0.16	0.66	0	74.6	45	122				
Hexachlorobutadiene	0.57	0.050	0.66	0	85.5	32	123				
Hexachloroethane	0.48	0.16	0.66	0	73.1	28	117				
Isophorone	0.47	0.16	0.66	0	70.8	30	122				
N-Nitroso-di-n-propylamine	0.49	0.16	0.66	0	74.3	50	130				
N-Nitrosodimethylamine	0.39	0.16	0.66	0	59.6	23	120				Y
N-Nitrosodiphenylamine	0.49	0.16	0.66	0	74.3	38	127				
Nitrobenzene	0.48	0.16	0.66	0	73.3	34	122				
Pentachlorophenol	0.70	0.16	0.66	0	106	25	133				Y
Phenol	0.53	0.16	0.66	0	80.1	34	121				
Surr: 2,4,6-Tribromophenol	810		826.4		98.1	39	132				
Surr: 2-Fluorobiphenyl	690		826.4		83.1	44	115				
Surr: 2-Fluorophenol	630		826.4		76.3	35	115				
Surr: Nitrobenzene-d5	690		826.4		83.9	37	122				
Surr: Phenol-d5	670		826.4		81.6	33	122				
Surr: Terphenyl-d14	760		826.4		92.3	54	127				

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	ZZZZZZ	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.55	0.17	0.72	0	75.6	34	118				
1,2-Dichlorobenzene	0.53	0.17	0.72	0	73.8	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40191

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	ZZZZZZ	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.51	0.17	0.72	0	71.0	30	115				
1,4-Dichlorobenzene	0.50	0.17	0.72	0	69.7	31	115				
2,4,5-Trichlorophenol	0.63	0.17	0.72	0	87.6	41	124				
2,4,6-Trichlorophenol	0.66	0.17	0.72	0	91.8	39	126				
2,4-Dichlorophenol	0.64	0.17	0.72	0	88.7	40	122				
2,4-Dimethyl phenol	0.51	0.17	0.72	0	70.6	30	127				
2,4-Dinitrophenol	1.9	0.90	1.8	0	105	50	130				JY
2,4-Dinitrotoluene	0.65	0.17	0.72	0	90.1	48	126				
2,6-Dinitrotoluene	0.59	0.17	0.72	0	81.5	46	124				
2-Chloronaphthalene	0.49	0.17	0.72	0	68.4	41	114				
2-Chlorophenol	0.55	0.17	0.72	0	76.5	34	121				
2-Methylphenol (o-Cresol)	0.56	0.17	0.72	0	77.9	32	122				
2-Nitroaniline	0.58	0.35	0.72	0	80.3	44	127				
2-Nitrophenol	0.65	0.17	0.72	0	89.7	36	123				
3,3´-Dichlorobenzidine	0.72	1.1	0.72	0	0	22	121				QU
3-Nitroaniline	0.58	0.35	0.72	0	80.0	33	119				
3/4-Methylphenol [m/p-Cresol]	1.1	0.35	1.4	0	73.8	42	126				
4,6-Dinitro-2-methylphenol	0.78	0.35	0.72	0	108	29	132				Y
4-Bromophenyl phenyl ether	0.53	0.22	0.72	0	73.5	46	124				
4-Chloro-3-methylphenol	0.66	0.17	0.72	0	91.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.49	0.17	0.72	0	68.2	17	106				
4-Chlorophenyl phenyl ether	0.60	0.17	0.72	0	83.4	45	121				
4-Nitroaniline	0.54	0.35	0.72	0	74.4	50	130				
4-Nitrophenol	1.6	0.90	1.8	0	86.1	30	132				
Benzoic acid	2.7	1.1	1.4	0	188	40	117				JQYZ
Benzyl alcohol	0.53	0.72	0.72	0	73.1	29	122				J
Bis(2-chloroethoxy) methane	0.50	0.17	0.72	0	68.9	36	121				
Bis(2-chloroethyl) ether	0.78	0.17	0.72	0	108	31	120				
Bis(2-chloroisopropyl)ether	0.49	0.17	0.72	0	67.3	33	131				YZ
Bis(2-ethylhexyl) phthalate	0.61	0.17	0.72	0	84.7	51	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40191

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	ZZZZZZ	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.60	0.17	0.72	0	82.9	48	132				
Carbazole	0.56	0.17	0.72	0	77.1	50	123				
Di-n-butyl phthalate	0.55	0.17	0.72	0	76.2	51	128				
Di-n-octyl phthalate	0.60	0.17	0.72	0	82.4	45	140				
Dibenzofuran	0.55	0.17	0.72	0	76.5	44	120				
Diethyl phthalate	0.58	0.17	0.72	0	80.2	50	124				
Dimethyl phthalate	0.57	0.17	0.72	0	78.5	48	124				
Hexachlorobenzene	0.54	0.17	0.72	0	74.1	45	122				
Hexachlorobutadiene	0.58	0.054	0.72	0	79.9	32	123				
Hexachloroethane	0.49	0.17	0.72	0	68.2	28	117				
Isophorone	0.49	0.17	0.72	0	67.5	30	122				
N-Nitroso-di-n-propylamine	0.52	0.17	0.72	0	71.4	50	130				
N-Nitrosodimethylamine	0.41	0.17	0.72	0	56.9	23	120				Y
N-Nitrosodiphenylamine	0.49	0.17	0.72	0	68.4	38	127				
Nitrobenzene	0.51	0.17	0.72	0	70.9	34	122				
Pentachlorophenol	0.77	0.17	0.72	0	106	25	133				Y
Phenol	0.54	0.17	0.72	0	74.1	34	121				
Surr: 2,4,6-Tribromophenol	840		904.1		92.4	39	132				
Surr: 2-Fluorobiphenyl	710		904.1		78.8	44	115				
Surr: 2-Fluorophenol	670		904.1		74.4	35	115				
Surr: Nitrobenzene-d5	720		904.1		79.5	37	122				
Surr: Phenol-d5	720		904.1		79.2	33	122				
Surr: Terphenyl-d14	800		904.1		88.0	54	127				

Sample ID:	1606425-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	ZZZZZZ	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711439

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.51	0.17	0.72	0	70.6	34	118	0.55	7.00	25	
1,2-Dichlorobenzene	0.49	0.17	0.72	0	67.9	33	117	0.53	8.56	25	
1,3-Dichlorobenzene	0.48	0.17	0.72	0	67.1	30	115	0.51	5.81	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**1606425-005AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**ZZZZZZ**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711439**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.48	0.17	0.72	0	66.7	31	115	0.50	4.56	25	
2,4,5-Trichlorophenol	0.58	0.17	0.72	0	80.3	41	124	0.63	8.85	25	
2,4,6-Trichlorophenol	0.62	0.17	0.72	0	85.4	39	126	0.66	7.44	25	
2,4-Dichlorophenol	0.60	0.17	0.72	0	83.6	40	122	0.64	6.08	25	
2,4-Dimethyl phenol	0.49	0.17	0.72	0	67.5	30	127	0.51	4.65	25	
2,4-Dinitrophenol	1.8	0.90	1.8	0	97.4	50	130	1.9	7.31	25	Y
2,4-Dinitrotoluene	0.60	0.17	0.72	0	83.1	48	126	0.65	8.30	25	
2,6-Dinitrotoluene	0.54	0.17	0.72	0	75.4	46	124	0.59	8.00	25	
2-Chloronaphthalene	0.47	0.17	0.72	0	65.1	41	114	0.49	5.11	25	
2-Chlorophenol	0.52	0.17	0.72	0	72.1	34	121	0.55	6.08	25	
2-Methylphenol (o-Cresol)	0.53	0.17	0.72	0	73.1	32	122	0.56	6.45	25	
2-Nitroaniline	0.55	0.35	0.72	0	76.0	44	127	0.58	5.67	25	
2-Nitrophenol	0.62	0.17	0.72	0	85.4	36	123	0.65	5.13	25	
3,3´-Dichlorobenzidine	0.72	1.1	0.72	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.55	0.35	0.72	0	75.8	33	119	0.58	5.55	25	
3/4-Methylphenol [m/p-Cresol]	0.99	0.35	1.4	0	68.5	42	126	1.1	7.58	25	
4,6-Dinitro-2-methylphenol	0.73	0.35	0.72	0	101	29	132	0.78	6.93	25	Y
4-Bromophenyl phenyl ether	0.48	0.22	0.72	0	66.2	46	124	0.53	10.5	25	
4-Chloro-3-methylphenol	0.62	0.17	0.72	0	85.2	45	122	0.66	6.96	25	
4-Chloroaniline [p-Chloroaniline]	0.47	0.17	0.72	0	64.6	17	106	0.49	5.66	25	
4-Chlorophenyl phenyl ether	0.56	0.17	0.72	0	77.5	45	121	0.60	7.56	25	
4-Nitroaniline	0.49	0.35	0.72	0	67.7	50	130	0.54	9.52	25	
4-Nitrophenol	1.4	0.90	1.8	0	76.0	30	132	1.6	12.6	25	
Benzoic acid	2.9	1.1	1.4	0	200	40	117	2.7	5.87	25	JQYZ
Benzyl alcohol	0.51	0.71	0.72	0	70.1	29	122	0.53	4.35	25	J
Bis(2-chloroethoxy) methane	0.47	0.17	0.72	0	64.6	36	121	0.50	6.60	25	
Bis(2-chloroethyl) ether	0.69	0.17	0.72	0	95.2	31	120	0.78	12.9	25	
Bis(2-chloroisopropyl)ether	0.45	0.17	0.72	0	62.3	33	131	0.49	7.88	25	YZ
Bis(2-ethylhexyl) phthalate	0.56	0.17	0.72	0	77.0	51	133	0.61	9.75	25	
Butyl benzyl phthalate	0.55	0.17	0.72	0	75.8	48	132	0.60	9.10	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**1606425-005AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**ZZZZZZ**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711439**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.50	0.17	0.72	0	69.6	50	123	0.56	10.3	25	
Di-n-butyl phthalate	0.52	0.17	0.72	0	71.6	51	128	0.55	6.45	25	
Di-n-octyl phthalate	0.54	0.17	0.72	0	74.2	45	140	0.60	10.6	25	
Dibenzofuran	0.52	0.17	0.72	0	72.1	44	120	0.55	6.15	25	
Diethyl phthalate	0.55	0.17	0.72	0	75.9	50	124	0.58	5.67	25	
Dimethyl phthalate	0.52	0.17	0.72	0	72.5	48	124	0.57	8.17	25	
Hexachlorobenzene	0.48	0.17	0.72	0	67.1	45	122	0.54	10.0	25	
Hexachlorobutadiene	0.55	0.054	0.72	0	75.7	32	123	0.58	5.62	25	
Hexachloroethane	0.46	0.17	0.72	0	63.5	28	117	0.49	7.30	25	
Isophorone	0.45	0.17	0.72	0	62.9	30	122	0.49	7.29	25	
N-Nitroso-di-n-propylamine	0.49	0.17	0.72	0	67.2	50	130	0.52	6.15	25	
N-Nitrosodimethylamine	0.39	0.17	0.72	0	54.5	23	120	0.41	4.47	25	Y
N-Nitrosodiphenylamine	0.46	0.17	0.72	0	63.6	38	127	0.49	7.36	25	
Nitrobenzene	0.48	0.17	0.72	0	66.5	34	122	0.51	6.64	25	
Pentachlorophenol	0.71	0.17	0.72	0	98.4	25	133	0.77	7.97	25	Y
Phenol	0.51	0.17	0.72	0	70.4	34	121	0.54	5.35	25	
Surr: 2,4,6-Tribromophenol	760		902.7		84.6	39	132		0	25	
Surr: 2-Fluorobiphenyl	660		902.7		72.9	44	115		0	25	
Surr: 2-Fluorophenol	620		902.7		68.8	35	115		0	25	
Surr: Nitrobenzene-d5	650		902.7		72.3	37	122		0	25	
Surr: Phenol-d5	640		902.7		71.4	33	122		0	25	
Surr: Terphenyl-d14	710		902.7		78.3	54	127		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID:	MB-40193	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	PBS	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1702346

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benz(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	14		16.63		83.0	46	115				
Surr: Nitrobenzene-d5	12		16.63		71.5	44	125				
Surr: Terphenyl-d14	18		16.63		105	58	133				

Sample ID:	LCS-40193	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	LCSS	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1702347

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00067	0.013	0	99.7	43	111				
2-Methylnaphthalene	0.015	0.00067	0.013	0	110	39	114				
Acenaphthene	0.014	0.00067	0.013	0	106	44	111				
Acenaphthylene	0.014	0.00067	0.013	0	106	39	116				
Anthracene	0.014	0.00067	0.013	0	105	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID:	LCS-40193	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	LCSS	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1702347

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.018	0.00067	0.013	0	134	54	122				Q
Benzo(a)pyrene	0.013	0.00067	0.013	0	101	50	125				
Benzo(b)fluoranthene	0.016	0.00067	0.013	0	119	53	128				
Benzo(g,h,i)perylene	0.016	0.00067	0.013	0	123	49	127				
Benzo(k)fluoranthene	0.0098	0.00067	0.013	0	74.0	56	123				
Chrysene	0.013	0.00067	0.013	0	98.1	57	118				
Dibenzo(a,h)anthracene	0.017	0.00067	0.013	0	129	50	129				
Fluoranthene	0.013	0.00067	0.013	0	97.0	55	119				
Fluorene	0.015	0.00067	0.013	0	116	47	114				Q
Indeno(1,2,3-cd)pyrene	0.016	0.00067	0.013	0	122	49	130				
Naphthalene	0.014	0.00067	0.013	0	104	38	111				
Phenanthrene	0.017	0.00067	0.013	0	129	49	113				Q
Pyrene	0.016	0.00067	0.013	0	117	55	117				Q
Surr: 2-Fluorobiphenyl	14		16.59		85.6	46	115				
Surr: Nitrobenzene-d5	17		16.59		102	44	125				
Surr: Terphenyl-d14	19		16.59		112	58	133				

Sample ID:	1606425-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	ZZZZZZ	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1702350

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00074	0.015	0.00083	85.0	43	111	0	0	25	
2-Methylnaphthalene	0.015	0.00074	0.015	0.0018	89.5	39	114	0	0	25	
Acenaphthene	0.014	0.00074	0.015	0	94.8	44	111	0	0	25	
Acenaphthylene	0.014	0.00074	0.015	0	96.4	39	116	0	0	25	
Anthracene	0.014	0.00074	0.015	0	92.8	50	114	0	0	25	
Benz(a)anthracene	0.018	0.00074	0.015	0	121	54	122	0	0	25	
Benzo(a)pyrene	0.013	0.00074	0.015	0	85.4	50	125	0	0	25	
Benzo(b)fluoranthene	0.016	0.00074	0.015	0	106	53	128	0	0	25	
Benzo(g,h,i)perylene	0.014	0.00074	0.015	0	97.6	49	127	0	0	25	
Benzo(k)fluoranthene	0.014	0.00074	0.015	0	92.8	56	123	0	0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID:	1606425-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	ZZZZZZ	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1702350

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.012	0.00074	0.015	0	84.7	57	118	0	0	25	
Dibenzo(a,h)anthracene	0.015	0.00074	0.015	0	106	50	129	0	0	25	
Fluoranthene	0.013	0.00074	0.015	0	86.4	55	119	0	0	25	
Fluorene	0.015	0.00074	0.015	0	105	47	114	0	0	25	
Indeno(1,2,3-cd)pyrene	0.015	0.00074	0.015	0	99.3	49	130	0	0	25	
Naphthalene	0.014	0.00074	0.015	0.0012	85.0	38	111	0	0	25	
Phenanthrene	0.017	0.00074	0.015	0	116	49	113	0	0	25	Q
Pyrene	0.015	0.00074	0.015	0	104	55	117	0	0	25	
Surr: 2-Fluorobiphenyl	13		18.31		73.7	46	115		0	25	
Surr: Nitrobenzene-d5	15		18.31		83.2	44	125		0	25	
Surr: Terphenyl-d14	18		18.31		96.9	58	133		0	25	

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	ZZZZZZ	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1708624

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00073	0.015	0.00083	82.4	43	111				
2-Methylnaphthalene	0.015	0.00073	0.015	0.0018	88.1	39	114				
Acenaphthene	0.013	0.00073	0.015	0	89.5	44	111				
Acenaphthylene	0.013	0.00073	0.015	0	89.6	39	116				
Anthracene	0.013	0.00073	0.015	0	88.6	50	114				
Benz(a)anthracene	0.018	0.00073	0.015	0	120	54	122				
Benzo(a)pyrene	0.011	0.00073	0.015	0	76.4	50	125				
Benzo(b)fluoranthene	0.015	0.00073	0.015	0	103	53	128				
Benzo(g,h,i)perylene	0.016	0.00073	0.015	0	113	49	127				
Benzo(k)fluoranthene	0.012	0.00073	0.015	0	85.2	56	123				
Chrysene	0.012	0.00073	0.015	0	80.2	57	118				
Dibenzo(a,h)anthracene	0.015	0.00073	0.015	0	100	50	129				
Fluoranthene	0.012	0.00073	0.015	0	83.6	55	119				
Fluorene	0.015	0.00073	0.015	0	99.3	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00073	0.015	0	94.6	49	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	ZZZZZZ	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1708624

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.013	0.00073	0.015	0.0012	82.7	38	111				
Phenanthrene	0.016	0.00073	0.015	0	112	49	113				
Pyrene	0.015	0.00073	0.015	0	99.7	55	117				
Surr: 2-Fluorobiphenyl	13		18.28		70.4	46	115				
Surr: Nitrobenzene-d5	14		18.28		77.0	44	125				
Surr: Terphenyl-d14	17		18.28		93.3	58	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40215**

Sample ID:	MB-40215	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87156
Client ID:	PBS	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/1/2016	SeqNo:	1691220

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	2.0	5.0									U
Antimony	0.50	1.0									U
Arsenic	1.0	2.0									U
Barium	5.0	10									U
Beryllium	0.050	0.25									U
Cadmium	0.050	0.25									U
Calcium	10	50									U
Chromium	0.40	0.50									U
Cobalt	0.25	1.0									U
Copper	1.0	5.0									U
Iron	5.0	15									U
Lead	1.0	5.0									U
Magnesium	5.0	50									U
Manganese	0.25	1.0									U
Nickel	1.0	5.0									U
Selenium	1.5	2.0									U
Silver	0.063	1.0									J
Sodium	5.0	50									U
Vanadium	1.0	2.5									U
Zinc	0.50	5.0									U

Sample ID:	LCS-40215	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87156
Client ID:	LCSS	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/1/2016	SeqNo:	1691221

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	112	74	119				
Antimony	26	1.0	25	0	103	79	114				
Arsenic	25	2.0	25	0	101	82	111				
Barium	25	10	25	0	101	83	113				
Beryllium	25	0.25	25	0	102	83	113				
Cadmium	24	0.25	25	0	98.0	82	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40215

Sample ID:	LCS-40215	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87156
Client ID:	LCSS	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/1/2016	SeqNo:	1691221

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Calcium	250	50	250	0	99.5	81	116				
Chromium	26	0.50	25	0	102	85	113				
Cobalt	26	1.0	25	0	105	85	112				
Copper	27	5.0	25	0	109	81	117				
Iron	260	15	250	0	104	81	118				
Lead	26	5.0	25	0	103	81	112				
Magnesium	250	50	250	0	99.6	78	115				
Manganese	27	1.0	25	0	109	84	114				
Nickel	26	5.0	25	0	105	83	113				
Potassium	210	20	250	0	85.1	81	116				
Selenium	26	2.0	25	0	105	78	111				
Silver	25	1.0	25	0	98.2	82	112				
Sodium	230	50	250	0	93.2	83	118				
Vanadium	25	2.5	25	0	101	82	114				
Zinc	25	5.0	25	0	101	82	113				

Sample ID:	1606392-005BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87156
Client ID:	BG02-SB02-05MS1	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/1/2016	SeqNo:	1691223

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	4,200	3.4	17	4,100	1,040	74	119				Q
Antimony	18	0.68	17	1.9	96.8	79	114				
Arsenic	18	1.4	17	1.1	98.6	82	111				
Barium	29	6.8	17	10	109	83	113				
Beryllium	16	0.17	17	0.092	95.5	83	113				
Cadmium	16	0.17	17	0	95.3	82	113				
Calcium	680	34	170	490	112	81	116				
Chromium	24	0.34	17	6.7	98.2	85	113				
Cobalt	19	0.68	17	2.0	99.0	85	112				
Copper	34	3.4	17	16	103	81	117				
Iron	5,900	10	170	6,100	-83.6	81	118				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40215

Sample ID: **1606392-005BMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87156**

Client ID: **BG02-SB02-05MS1** Batch ID: **40215** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/1/2016** SeqNo: **1691223**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	17	3.4	17	1.2	92.5	81	112				
Magnesium	1,100	34	170	920	90.2	78	115				
Manganese	130	0.68	17	120	77.5	84	114				Q
Nickel	20	3.4	17	3.7	98.3	83	113				
Selenium	16	1.4	17	0	91.5	78	111				
Silver	16	0.68	17	0	94.9	82	112				
Sodium	240	34	170	69	101	83	118				
Vanadium	26	1.7	17	9.2	97.7	82	114				
Zinc	23	3.4	17	6.7	92.9	82	113				

Sample ID: **1606392-005BMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87156**

Client ID: **BG02-SB02-05SD1** Batch ID: **40215** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/1/2016** SeqNo: **1691224**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	4,100	3.4	17	4,100	386	74	119	4,200	2.70	20	Q
Antimony	19	0.68	17	1.9	99.0	79	114	18	0.797	20	
Arsenic	19	1.4	17	1.1	104	82	111	18	3.77	20	
Barium	27	6.8	17	10	98.7	83	113	29	7.22	20	
Beryllium	17	0.17	17	0.092	97.1	83	113	16	0.376	20	
Cadmium	16	0.17	17	0	95.9	82	113	16	0.686	20	
Calcium	750	34	170	490	152	81	116	680	9.21	20	Q
Chromium	23	0.34	17	6.7	97.9	85	113	24	1.15	20	
Cobalt	18	0.68	17	2.0	96.1	85	112	19	3.76	20	
Copper	33	3.4	17	16	104	81	117	34	0.0909	20	
Iron	6,000	10	170	6,100	-25.6	81	118	5,900	1.67	20	JQ
Lead	17	3.4	17	1.2	94.5	81	112	17	0.790	20	
Magnesium	1,000	34	170	920	45.5	78	115	1,100	7.47	20	Q
Manganese	130	0.68	17	120	82.4	84	114	130	0.502	20	Q
Nickel	20	3.4	17	3.7	97.9	83	113	20	1.43	20	
Selenium	16	1.4	17	0	92.6	78	111	16	0.0795	20	
Silver	16	0.68	17	0	94.9	82	112	16	1.25	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40215

Sample ID:	1606392-005BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87156
Client ID:	BG02-SB02-05SD1	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/1/2016	SeqNo:	1691224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Sodium	230	34	170	69	95.0	83	118	240	5.06	20	
Vanadium	26	1.7	17	9.2	97.9	82	114	26	0.712	20	
Zinc	22	3.4	17	6.7	93.2	82	113	23	0.727	20	

Sample ID:	MB-40215	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87158
Client ID:	PBS	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691463

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nickel	1.0	5.0									U

Sample ID:	LCS-40215	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87158
Client ID:	LCSS	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691464

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nickel	24	5.0	25	0	95.5	83	113				

Sample ID:	1606392-005BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87158
Client ID:	BG02-SB02-05MS1	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691466

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	520	14	170	290	134	81	116				Q

Sample ID:	1606392-005BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87158
Client ID:	BG02-SB02-05SD1	Batch ID:	40215	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691468

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	530	14	170	350	107	81	116	520	1.72	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40217**

Sample ID:	MB-40217	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87363
Client ID:	PBS	Batch ID:	40217	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695869

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	2.0	5.0									U
Antimony	0.50	1.0									U
Arsenic	1.0	2.0									U
Barium	5.0	10									U
Beryllium	0.050	0.25									U
Cadmium	0.050	0.25									U
Calcium	10	50									U
Chromium	0.40	0.50									U
Cobalt	0.25	1.0									U
Copper	1.0	5.0									U
Iron	5.0	15									U
Lead	1.0	5.0									U
Magnesium	5.0	50									U
Manganese	0.25	1.0									U
Nickel	1.0	5.0									U
Potassium	10	20									U
Selenium	1.5	2.0									U
Silver	0.25	1.0									U
Sodium	5.0	50									U
Vanadium	1.0	2.5									U
Zinc	0.50	5.0									U

Sample ID:	LCS-40217	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87363
Client ID:	LCSS	Batch ID:	40217	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695870

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	27	5.0	25	0	107	74	119				
Antimony	25	1.0	25	0	99.5	79	114				
Arsenic	23	2.0	25	0	91.2	82	111				
Barium	24	10	25	0	97.0	83	113				
Beryllium	24	0.25	25	0	95.5	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40217

Sample ID:	LCS-40217	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87363
Client ID:	LCSS	Batch ID:	40217	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695870

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	90.7	82	113				
Calcium	210	50	250	0	85.6	81	116				
Chromium	26	0.50	25	0	102	85	113				
Cobalt	24	1.0	25	0	96.5	85	112				
Copper	26	5.0	25	0	104	81	117				
Iron	230	15	250	0	90.0	81	118				
Lead	25	5.0	25	0	99.8	81	112				
Magnesium	220	50	250	0	88.2	78	115				
Manganese	26	1.0	25	0	104	84	114				
Nickel	23	5.0	25	0	93.4	83	113				
Potassium	240	20	250	0	97.8	81	116				
Selenium	26	2.0	25	0	104	78	111				
Silver	23	1.0	25	0	92.0	82	112				
Sodium	240	50	250	0	94.7	83	118				
Vanadium	23	2.5	25	0	93.1	82	114				
Zinc	23	5.0	25	0	90.3	82	113				

Sample ID:	1606425-005BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87363
Client ID:	ZZZZZZ	Batch ID:	40217	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695872

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	16,000	3.6	18	13,000	12,500	74	119				Q
Antimony	20	0.73	18	4.8	82.5	79	114				
Arsenic	16	1.5	18	2.4	75.8	82	111				Q
Barium	75	7.3	18	52	125	83	113				Q
Beryllium	15	0.18	18	0.26	82.1	83	113				Q
Cadmium	15	0.18	18	0	80.4	82	113				Q
Calcium	620	36	180	450	92.4	81	116				
Chromium	37	0.36	18	20	94.0	85	113				
Cobalt	19	0.73	18	4.8	76.4	85	112				Q
Copper	59	3.6	18	38	114	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40217**

Sample ID: **1606425-005BMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87363**

Client ID: **ZZZZZZ** Batch ID: **40217** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/13/2016** SeqNo: **1695872**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	13,000	11	180	12,000	642	81	118				JQ
Lead	18	3.6	18	3.1	82.4	81	112				
Magnesium	3,200	36	180	2,800	242	78	115				JQ
Manganese	250	0.73	18	240	53.1	84	114				JQ
Nickel	29	3.6	18	12	90.6	83	113				
Potassium	2,500	15	180	2,200	176	81	116				JQ
Selenium	11	1.5	18	0	60.8	78	111				Q
Silver	15	0.73	18	0	81.8	82	112				Q
Sodium	250	36	180	92	85.2	83	118				
Vanadium	40	1.8	18	24	86.2	82	114				J
Zinc	37	3.6	18	23	76.3	82	113				Q

Sample ID: **1606425-005BMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87363**

Client ID: **ZZZZZZ** Batch ID: **40217** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/13/2016** SeqNo: **1695873**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	15,000	3.6	18	13,000	9,700	74	119	16,000	3.29	20	Q
Antimony	22	0.73	18	4.8	96.3	79	114	20	11.9	20	
Arsenic	19	1.5	18	2.4	92.1	82	111	16	16.8	20	
Barium	70	7.3	18	52	101	83	113	75	5.92	20	
Beryllium	15	0.18	18	0.26	83.5	83	113	15	1.65	20	
Cadmium	17	0.18	18	0	91.2	82	113	15	12.5	20	
Calcium	640	36	180	450	108	81	116	620	4.36	20	
Chromium	41	0.36	18	20	119	85	113	37	11.5	20	Q
Cobalt	21	0.73	18	4.8	91.7	85	112	19	13.9	20	
Copper	62	3.6	18	38	129	81	117	59	4.50	20	Q
Iron	13,000	11	180	12,000	664	81	118	13,000	0.310	20	JQ
Lead	20	3.6	18	3.1	93.9	81	112	18	11.0	20	
Magnesium	3,100	36	180	2,800	180	78	115	3,200	3.54	20	JQ
Manganese	310	0.73	18	240	398	84	114	250	22.6	20	JRQ
Nickel	31	3.6	18	12	102	83	113	29	7.16	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40217

Sample ID:	1606425-005BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87363
Client ID:	ZZZZZZ	Batch ID:	40217	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695873

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	2,500	15	180	2,200	205	81	116	2,500	2.11	20	JQ
Selenium	13	1.5	18	0	69.7	78	111	11	13.6	20	Q
Silver	16	0.73	18	0	89.4	82	112	15	8.83	20	
Sodium	250	36	180	92	86.7	83	118	250	1.16	20	
Vanadium	46	1.8	18	24	117	82	114	40	13.1	20	JQ
Zinc	42	3.6	18	23	108	82	113	37	14.7	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40394**

Sample ID:	MB-40394	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/11/2016	RunNo:	87276
Client ID:	PBS	Batch ID:	40394	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1693989

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.050	0.20									U

Sample ID:	LCS-40394	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/11/2016	RunNo:	87276
Client ID:	LCSS	Batch ID:	40394	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1693990

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	10	0.20	10	0	103	83	118				

Sample ID:	1606392-005BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/11/2016	RunNo:	87276
Client ID:	BG02-SB02-05MS1	Batch ID:	40394	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1693993

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.0	0.14	6.9	0.051	101	83	118				

Sample ID:	1606392-005BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/11/2016	RunNo:	87276
Client ID:	BG02-SB02-05SD1	Batch ID:	40394	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694000

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.8	0.14	7.0	0.051	96.4	83	118	7.0	3.87	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40434**

Sample ID:	MB-40434	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	PBS	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697390

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.050	0.20									U

Sample ID:	LCS-40434	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	LCSS	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697391

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.7	0.20	10	0	97.1	83	118				

Sample ID:	1606652-005FMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697393

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.1	0.13	6.6	0.077	92.4	83	118				

Sample ID:	1606652-005FMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697394

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.4	0.13	6.5	0.077	97.5	83	118	6.1	4.65	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86681**

Sample ID:	**1606389-001B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/14/2016**	RunNo:	**86681**
Client ID:	**ZZZZZZ**	Batch ID:	**R86681**	TestNo:	**D2216**			Analysis Date:	**6/14/2016**	SeqNo:	**1681598**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	13	1.0						12.87	4.43	20	

Sample ID:	**1606392-002B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/14/2016**	RunNo:	**86681**
Client ID:	**BG02-SB01-05LR1**	Batch ID:	**R86681**	TestNo:	**D2216**			Analysis Date:	**6/14/2016**	SeqNo:	**1681618**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	15	1.0						14.96	0.598	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86683**

Sample ID:	**1606392-005B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/14/2016**	RunNo:	**86683**	
Client ID:	**BG02-SB02-05LR1**	Batch ID:	**R86683**	TestNo:	**D2216**			Analysis Date:	**6/14/2016**	SeqNo:	**1681623**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	4.5	1.0						5.160	12.6	20		

Sample ID:	**1606392-021G DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/14/2016**	RunNo:	**86683**	
Client ID:	**H17-SS03-01LR1**	Batch ID:	**R86683**	TestNo:	**D2216**			Analysis Date:	**6/14/2016**	SeqNo:	**1681639**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	13	1.0						14.35	7.39	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86694**

Sample ID:	**VOA11B LCS 06151**	Samp Type:	**LCS**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86694**
Client ID:	**LCSS**	Batch ID:	**R86694**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1681953**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0093	0.0010	0.010	0	93.4	78	125				
1,1,1-Trichloroethane	0.0092	0.0010	0.010	0	91.6	73	130				
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	103	70	124				
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	102	78	121				
1,1-Dichloroethane	0.010	0.0010	0.010	0	99.7	76	125				
1,1-Dichloroethene	0.0098	0.0010	0.010	0	98.5	70	131				
1,2,3-Trichloropropane	0.0098	0.0010	0.010	0	97.5	73	125				
1,2-Dibromo-3-chloropropane	0.0081	0.0050	0.010	0	80.9	61	132				
1,2-Dibromoethane	0.010	0.0010	0.010	0	102	78	122				
1,2-Dichloroethane	0.011	0.0010	0.010	0	106	73	128				
1,2-Dichloropropane	0.010	0.0010	0.010	0	101	76	123				
2-Butanone [MEK]	0.011	0.020	0.010	0	110	51	148				J
2-Hexanone	0.0097	0.0050	0.010	0	97.0	53	145				
Acetone	0.018	0.010	0.010	0	185	36	164				QY
Benzene	0.0095	0.0010	0.010	0	95.3	77	121				
Bromodichloromethane	0.010	0.0010	0.010	0	101	75	127				
Bromoform	0.0069	0.0010	0.010	0	68.9	67	132				
Carbon disulfide	0.0093	0.0010	0.010	0	92.8	63	132				
Carbon tetrachloride	0.010	0.0010	0.010	0	99.7	70	135				
Chlorobenzene	0.0094	0.0010	0.010	0	93.5	79	120				
Chlorodibromomethane	0.0080	0.0010	0.010	0	79.7	74	126				
Chloroethane	0.011	0.0020	0.010	0	113	59	139				
Chloroform	0.0098	0.0010	0.010	0	97.9	78	123				
Chloromethane	0.011	0.0010	0.010	0	110	50	136				
cis-1,2-Dichloroethene	0.0097	0.0010	0.010	0	97.0	77	123				
cis-1,3-Dichloropropene	0.0080	0.0010	0.010	0	80.2	74	126				
Dichlorodifluoromethane [Freon-12]	0.011	0.0010	0.010	0	114	29	149				
Ethylbenzene	0.0092	0.0010	0.010	0	92.3	76	122				
Methylene chloride	0.020	0.0050	0.010	0	198	70	128				QB
Styrene	0.0082	0.0010	0.010	0	81.6	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86694

Sample ID:	VOA11B LCS 06151	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86694
Client ID:	LCSS	Batch ID:	R86694	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1681953

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0091	0.0010	0.010	0	91.2	73	128				
Toluene	0.0095	0.0010	0.010	0	94.9	77	121				
trans-1,2-Dichloroethene	0.010	0.0010	0.010	0	105	74	125				
trans-1,3-Dichloropropene	0.0079	0.0010	0.010	0	79.0	71	130				
Trichloroethene	0.0096	0.0010	0.010	0	95.8	77	123				
Trichlorofluoromethane [Freon-11]	0.010	0.0010	0.010	0	103	62	140				
Vinyl acetate	0.012	0.0050	0.010	0	118	50	151				Y
Vinyl chloride	0.011	0.00080	0.010	0	115	56	135				
Xylene (Total)	0.028	0.0030	0.030	0	94.3	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.8	79	119				
Surr: Dibromofluoromethane	56		60.00		93.8	78	119				
Surr: Toluene-d8	57		60.00		95.6	85	116				

Sample ID:	VOA11B LCSD 0615	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86694
Client ID:	LCSS02	Batch ID:	R86694	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1681954

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0092	0.0010	0.010	0	92.0	78	125	0.0093	1.51	25	
1,1,1-Trichloroethane	0.0089	0.0010	0.010	0	88.9	73	130	0.0092	2.99	25	
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	103	70	124	0.010	0.680	25	
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	100	78	121	0.010	1.78	25	
1,1-Dichloroethane	0.0097	0.0010	0.010	0	97.0	76	125	0.010	2.75	25	
1,1-Dichloroethene	0.0096	0.0010	0.010	0	96.2	70	131	0.0098	2.36	25	
1,2,3-Trichloropropane	0.0097	0.0010	0.010	0	97.1	73	125	0.0098	0.411	25	
1,2-Dibromo-3-chloropropane	0.0082	0.0050	0.010	0	82.4	61	132	0.0081	1.84	25	
1,2-Dibromoethane	0.010	0.0010	0.010	0	99.9	78	122	0.010	1.59	25	
1,2-Dichloroethane	0.011	0.0010	0.010	0	106	73	128	0.011	0.284	25	
1,2-Dichloropropane	0.0097	0.0010	0.010	0	97.4	76	123	0.010	3.13	25	
2-Butanone [MEK]	0.011	0.020	0.010	0	110	51	148	0.011	0.182	25	J
2-Hexanone	0.0091	0.0050	0.010	0	91.3	53	145	0.0097	6.05	25	
Acetone	0.018	0.010	0.010	0	180	36	164	0.018	2.58	25	QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86694

Sample ID:	**VOA11B LCSD 0615**	Samp Type:	**LCSD**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86694**
Client ID:	**LCSS02**	Batch ID:	**R86694**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1681954**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0095	0.0010	0.010	0	94.9	77	121	0.0095	0.421	25	
Bromodichloromethane	0.0096	0.0010	0.010	0	95.5	75	127	0.010	5.89	25	
Bromoform	0.0070	0.0010	0.010	0	70.0	67	132	0.0069	1.58	25	
Carbon disulfide	0.0087	0.0010	0.010	0	87.3	63	132	0.0093	6.11	25	
Carbon tetrachloride	0.0094	0.0010	0.010	0	94.2	70	135	0.010	5.67	25	
Chlorobenzene	0.0093	0.0010	0.010	0	93.3	79	120	0.0094	0.214	25	
Chlorodibromomethane	0.0077	0.0010	0.010	0	77.4	74	126	0.0080	2.93	25	
Chloroethane	0.011	0.0020	0.010	0	108	59	139	0.011	4.60	25	
Chloroform	0.0097	0.0010	0.010	0	96.9	78	123	0.0098	1.03	25	
Chloromethane	0.011	0.0010	0.010	0	108	50	136	0.011	1.19	25	
cis-1,2-Dichloroethene	0.010	0.0010	0.010	0	100	77	123	0.0097	3.05	25	
cis-1,3-Dichloropropene	0.0076	0.0010	0.010	0	75.6	74	126	0.0080	5.91	25	
Dichlorodifluoromethane [Freon-12]	0.011	0.0010	0.010	0	110	29	149	0.011	3.57	25	
Ethylbenzene	0.0088	0.0010	0.010	0	87.7	76	122	0.0092	5.11	25	
Methylene chloride	0.018	0.0050	0.010	0	178	70	128	0.020	10.7	25	QB
Styrene	0.0080	0.0010	0.010	0	80.0	76	124	0.0082	1.98	25	
Tetrachloroethene	0.0086	0.0010	0.010	0	85.7	73	128	0.0091	6.22	25	
Toluene	0.0092	0.0010	0.010	0	92.0	77	121	0.0095	3.10	25	
trans-1,2-Dichloroethene	0.010	0.0010	0.010	0	99.5	74	125	0.010	5.38	25	
trans-1,3-Dichloropropene	0.0077	0.0010	0.010	0	77.2	71	130	0.0079	2.30	25	
Trichloroethene	0.0092	0.0010	0.010	0	92.4	77	123	0.0096	3.61	25	
Trichlorofluoromethane [Freon-11]	0.010	0.0010	0.010	0	103	62	140	0.010	0.195	25	
Vinyl acetate	0.012	0.0050	0.010	0	121	50	151	0.012	2.51	25	Y
Vinyl chloride	0.011	0.00080	0.010	0	114	56	135	0.011	0.524	25	
Xylene (Total)	0.027	0.0030	0.030	0	88.9	78	124	0.028	5.86	25	
Surr: 4-Bromofluorobenzene	57		60.00		94.9	79	119		0	25	
Surr: Dibromofluoromethane	56		60.00		93.2	78	119		0	25	
Surr: Toluene-d8	56		60.00		94.1	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86694**

Sample ID:	**VOA11B MBLK 0615**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86694**
Client ID:	**PBS**	Batch ID:	**R86694**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1681956**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.0048	0.010									JY
Benzene	0.00060	0.0010									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									U
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.017	0.0050									T
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86694**

Sample ID:	**VOA11B MBLK 0615**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86694**
Client ID:	**PBS**	Batch ID:	**R86694**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1681956**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									UY
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	43		50.00		85.3	79	119				
Surr: Dibromofluoromethane	45		50.00		90.9	78	119				
Surr: Toluene-d8	44		50.00		87.5	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	VOA11B LCS 06201	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	LCSS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.41	0.050	0.50	0	81.4	78	125				
1,1,1-Trichloroethane	0.47	0.050	0.50	0	94.3	73	130				
1,1,2,2-Tetrachloroethane	0.46	0.050	0.50	0	92.4	70	124				
1,1,2-Trichloroethane	0.46	0.050	0.50	0	92.2	78	121				
1,1-Dichloroethane	0.46	0.050	0.50	0	91.8	76	125				
1,1-Dichloroethene	0.47	0.050	0.50	0	93.0	70	131				
1,2,3-Trichloropropane	0.48	0.050	0.50	0	96.1	73	125				
1,2-Dibromo-3-chloropropane	0.46	0.25	0.50	0	92.3	61	132				
1,2-Dibromoethane	0.50	0.050	0.50	0	99.3	78	122				
1,2-Dichloroethane	0.50	0.050	0.50	0	101	73	128				
1,2-Dichloropropane	0.45	0.050	0.50	0	90.3	76	123				
2-Butanone [MEK]	0.42	0.50	0.50	0	85.0	51	148				J
2-Hexanone	0.39	0.10	0.50	0	77.4	53	145				
Acetone	0.49	0.25	0.50	0	97.9	36	164				
Benzene	0.44	0.050	0.50	0	87.8	77	121				
Bromodichloromethane	0.40	0.050	0.50	0	80.7	75	127				
Bromoform	0.33	0.050	0.50	0	65.5	67	132				Q
Carbon disulfide	0.37	0.050	0.50	0	74.7	63	132				
Carbon tetrachloride	0.52	0.050	0.50	0	104	70	135				Y
Chlorobenzene	0.45	0.050	0.50	0	90.2	79	120				
Chlorodibromomethane	0.38	0.050	0.50	0	75.0	74	126				
Chloroethane	0.64	0.25	0.50	0	127	59	139				YZ
Chloroform	0.47	0.050	0.50	0	94.8	78	123				
Chloromethane	0.41	0.050	0.50	0	81.8	50	136				
cis-1,2-Dichloroethene	0.48	0.050	0.50	0	95.2	77	123				
cis-1,3-Dichloropropene	0.40	0.050	0.50	0	79.6	74	126				
Dichlorodifluoromethane [Freon-12]	0.47	0.25	0.50	0	93.2	29	149				
Ethylbenzene	0.45	0.050	0.50	0	89.3	76	122				
Methylene chloride	0.55	0.10	0.50	0	110	70	128				
Styrene	0.38	0.050	0.50	0	76.8	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	VOA11B LCS 06201	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	LCSS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.46	0.050	0.50	0	92.4	73	128				
Toluene	0.42	0.050	0.50	0	84.5	77	121				
trans-1,2-Dichloroethene	0.47	0.050	0.50	0	94.8	74	125				
trans-1,3-Dichloropropene	0.40	0.050	0.50	0	79.0	71	130				
Trichloroethene	0.45	0.050	0.50	0	90.1	77	123				
Trichlorofluoromethane [Freon-11]	0.43	0.050	0.50	0	85.6	62	140				
Vinyl acetate	0.47	1.2	0.50	0	93.4	50	151				J
Vinyl chloride	0.40	0.040	0.50	0	79.1	56	135				
Xylene (Total)	1.4	0.15	1.5	0	91.1	78	124				
Surr: 4-Bromofluorobenzene	3,000		3,000		101	79	119				
Surr: Dibromofluoromethane	2,900		3,000		95.2	78	119				
Surr: Toluene-d8	2,800		3,000		94.3	85	116				

Sample ID:	VOA11B MBLK 0620	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	PBS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683821

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.030	0.050									U
1,1,1-Trichloroethane	0.030	0.050									U
1,1,2,2-Tetrachloroethane	0.030	0.050									U
1,1,2-Trichloroethane	0.030	0.050									U
1,1-Dichloroethane	0.030	0.050									U
1,1-Dichloroethene	0.030	0.050									U
1,2,3-Trichloropropane	0.030	0.050									U
1,2-Dibromo-3-chloropropane	0.10	0.25									U
1,2-Dibromoethane	0.030	0.050									U
1,2-Dichloroethane	0.030	0.050									U
1,2-Dichloropropane	0.030	0.050									U
2-Butanone [MEK]	0.25	0.50									U
2-Hexanone	0.050	0.10									U
Acetone	0.10	0.25									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	VOA11B MBLK 0620	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	PBS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683821

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.030	0.050									U
Bromodichloromethane	0.030	0.050									U
Bromoform	0.030	0.050									U
Carbon disulfide	0.030	0.050									U
Carbon tetrachloride	0.030	0.050									UY
Chlorobenzene	0.030	0.050									U
Chlorodibromomethane	0.030	0.050									U
Chloroethane	0.10	0.25									UYZ
Chloroform	0.030	0.050									U
Chloromethane	0.030	0.050									U
cis-1,2-Dichloroethene	0.030	0.050									U
cis-1,3-Dichloropropene	0.030	0.050									U
Dichlorodifluoromethane [Freon-12]	0.10	0.25									U
Ethylbenzene	0.030	0.050									U
Methylene chloride	0.050	0.10									U
Styrene	0.030	0.050									U
Tetrachloroethene	0.030	0.050									U
Toluene	0.030	0.050									U
trans-1,2-Dichloroethene	0.030	0.050									U
trans-1,3-Dichloropropene	0.030	0.050									U
Trichloroethene	0.030	0.050									U
Trichlorofluoromethane [Freon-11]	0.030	0.050									U
Vinyl acetate	0.030	1.2									U
Vinyl chloride	0.030	0.040									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,400		2,500		94.5	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.3	78	119				
Surr: Toluene-d8	2,200		2,500		88.7	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	1606522-007AMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684059

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.40	0.050	0.50	0	80.0	78	125				
1,1,1-Trichloroethane	0.48	0.050	0.50	0	95.7	73	130				
1,1,2,2-Tetrachloroethane	0.47	0.050	0.50	0	94.4	70	124				
1,1,2-Trichloroethane	0.47	0.050	0.50	0	94.7	78	121				
1,1-Dichloroethane	0.46	0.050	0.50	0	92.5	76	125				
1,1-Dichloroethene	0.47	0.050	0.50	0	93.1	70	131				
1,2,3-Trichloropropane	0.50	0.050	0.50	0	99.2	73	125				
1,2-Dibromo-3-chloropropane	0.35	0.25	0.50	0	70.1	61	132				
1,2-Dibromoethane	0.49	0.050	0.50	0	97.0	78	122				
1,2-Dichloroethane	0.53	0.050	0.50	0	105	73	128				
1,2-Dichloropropane	0.43	0.050	0.50	0	86.4	76	123				
2-Butanone [MEK]	0.44	0.50	0.50	0	88.7	51	148				J
2-Hexanone	0.40	0.10	0.50	0	80.7	53	145				
Acetone	0.51	0.25	0.50	0	102	36	164				
Benzene	0.44	0.050	0.50	0	88.3	77	121				
Bromodichloromethane	0.39	0.050	0.50	0	78.4	75	127				
Bromoform	0.35	0.050	0.50	0	69.6	67	132				
Carbon disulfide	0.38	0.050	0.50	0	75.3	63	132				
Carbon tetrachloride	0.51	0.050	0.50	0	102	70	135				Y
Chlorobenzene	0.44	0.050	0.50	0	89.0	79	120				
Chlorodibromomethane	0.35	0.050	0.50	0	69.6	74	126				Q
Chloroethane	0.93	0.25	0.50	0	186	59	139				QYZ
Chloroform	0.49	0.050	0.50	0	98.0	78	123				
Chloromethane	0.43	0.050	0.50	0	86.3	50	136				
cis-1,2-Dichloroethene	0.44	0.050	0.50	0	88.9	77	123				
cis-1,3-Dichloropropene	0.35	0.050	0.50	0	69.8	74	126				Q
Dichlorodifluoromethane [Freon-12]	0.50	0.25	0.50	0	101	29	149				
Ethylbenzene	0.42	0.050	0.50	0	84.1	76	122				
Methylene chloride	0.52	0.10	0.50	0.042	95.7	70	128				
Styrene	0.38	0.050	0.50	0	75.6	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	1606522-007AMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684059

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.44	0.050	0.50	0	88.2	73	128				
Toluene	0.41	0.050	0.50	0	82.0	77	121				
trans-1,2-Dichloroethene	0.48	0.050	0.50	0	95.3	74	125				
trans-1,3-Dichloropropene	0.37	0.050	0.50	0	73.8	71	130				
Trichloroethene	0.44	0.050	0.50	0	87.9	77	123				
Trichlorofluoromethane [Freon-11]	0.46	0.050	0.50	0	91.1	62	140				
Vinyl acetate	0.48	1.2	0.50	0	96.0	50	151				J
Vinyl chloride	0.44	0.040	0.50	0	88.7	56	135				
Xylene (Total)	1.3	0.15	1.5	0	86.7	78	124				
Surr: 4-Bromofluorobenzene	3,100		3,000		104	79	119				
Surr: Dibromofluoromethane	3,000		3,000		101	78	119				
Surr: Toluene-d8	2,800		3,000		94.6	85	116				

Sample ID:	1606522-007AMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684060

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.41	0.050	0.50	0	82.5	78	125	0.40	3.08	25	
1,1,1-Trichloroethane	0.49	0.050	0.50	0	97.8	73	130	0.48	2.17	25	
1,1,2,2-Tetrachloroethane	0.50	0.050	0.50	0	99.9	70	124	0.47	5.66	25	
1,1,2-Trichloroethane	0.46	0.050	0.50	0	92.1	78	121	0.47	2.78	25	
1,1-Dichloroethane	0.47	0.050	0.50	0	93.6	76	125	0.46	1.18	25	
1,1-Dichloroethene	0.46	0.050	0.50	0	91.6	70	131	0.47	1.62	25	
1,2,3-Trichloropropane	0.49	0.050	0.50	0	98.9	73	125	0.50	0.303	25	
1,2-Dibromo-3-chloropropane	0.41	0.25	0.50	0	82.3	61	132	0.35	16.0	25	
1,2-Dibromoethane	0.51	0.050	0.50	0	102	78	122	0.49	4.63	25	
1,2-Dichloroethane	0.52	0.050	0.50	0	103	73	128	0.53	2.11	25	
1,2-Dichloropropane	0.44	0.050	0.50	0	88.3	76	123	0.43	2.18	25	
2-Butanone [MEK]	0.47	0.50	0.50	0	94.2	51	148	0.44	6.01	25	J
2-Hexanone	0.44	0.10	0.50	0	88.5	53	145	0.40	9.22	25	
Acetone	0.55	0.25	0.50	0	110	36	164	0.51	7.35	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID: **1606522-007AMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg** Prep Date: **6/20/2016** RunNo: **86786**

Client ID: **ZZZZZZ** Batch ID: **R86786** TestNo: **SW8260B** Analysis Date: **6/20/2016** SeqNo: **1684060**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.44	0.050	0.50	0	87.2	77	121	0.44	1.25	25	
Bromodichloromethane	0.39	0.050	0.50	0	77.8	75	127	0.39	0.768	25	
Bromoform	0.35	0.050	0.50	0	69.7	67	132	0.35	0.144	25	
Carbon disulfide	0.36	0.050	0.50	0	73.0	63	132	0.38	3.10	25	
Carbon tetrachloride	0.52	0.050	0.50	0	104	70	135	0.51	1.36	25	Y
Chlorobenzene	0.44	0.050	0.50	0	87.4	79	120	0.44	1.81	25	
Chlorodibromomethane	0.37	0.050	0.50	0	74.6	74	126	0.35	6.93	25	
Chloroethane	0.91	0.25	0.50	0	181	59	139	0.93	2.77	25	QYZ
Chloroform	0.48	0.050	0.50	0	95.2	78	123	0.49	2.90	25	
Chloromethane	0.42	0.050	0.50	0	83.9	50	136	0.43	2.82	25	
cis-1,2-Dichloroethene	0.45	0.050	0.50	0	90.6	77	123	0.44	1.89	25	
cis-1,3-Dichloropropene	0.36	0.050	0.50	0	72.4	74	126	0.35	3.66	25	Q
Dichlorodifluoromethane [Freon-12]	0.49	0.25	0.50	0	97.6	29	149	0.50	3.23	25	
Ethylbenzene	0.42	0.050	0.50	0	84.9	76	122	0.42	0.947	25	
Methylene chloride	0.53	0.10	0.50	0.042	98.2	70	128	0.52	2.38	25	
Styrene	0.37	0.050	0.50	0	73.2	76	124	0.38	3.23	25	Q
Tetrachloroethene	0.44	0.050	0.50	0	88.3	73	128	0.44	0.113	25	
Toluene	0.41	0.050	0.50	0	81.1	77	121	0.41	1.10	25	
trans-1,2-Dichloroethene	0.48	0.050	0.50	0	95.8	74	125	0.48	0.523	25	
trans-1,3-Dichloropropene	0.38	0.050	0.50	0	75.1	71	130	0.37	1.75	25	
Trichloroethene	0.43	0.050	0.50	0	86.9	77	123	0.44	1.14	25	
Trichlorofluoromethane [Freon-11]	0.47	0.050	0.50	0	93.5	62	140	0.46	2.60	25	
Vinyl acetate	0.51	1.2	0.50	0	101	50	151	0.48	5.47	25	J
Vinyl chloride	0.44	0.040	0.50	0	87.5	56	135	0.44	1.36	25	
Xylene (Total)	1.3	0.15	1.5	0	86.7	78	124	1.3	0.0385	25	
Surr: 4-Bromofluorobenzene	3,100		3,000		104	79	119		0	25	
Surr: Dibromofluoromethane	3,100		3,000		102	78	119		0	25	
Surr: Toluene-d8	2,800		3,000		93.8	85	116		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606392

Date Reported: 8/30/2016
Revision v3

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606392

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060116-08
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
BG02-SB01	00	01	N	1	BG02-SS01-01	06/10/16	0935	SS	2	021							1		1			1
BG02-SB01	04	05	N	1	BG02-SB01-05		0940	SO	2								1		1			2
BG02-SB01	05	06	N	1	BG02-SB01-06		0940	SO	2								1		1			3
BG02-SB02	00	01	N	1	BG02-SS02-01		1005	SS	2								1		1			4
BG02-SB02	04	05	N	1	BG02-SB02-05		1015	SO	2								1		1			5
BG02-SB02	09	10	N	1	BG02-SB02-10		1020	SO	2								1		1			6
BG02-SB02	04	05	MS	1	BG02-SB02-05MS		1015	SO	2								1		1			SA code: MS
BG02-SB02	04	05	SD	1	BG02-SB02-05MSD		1015	SO	2								1		1			5
BG02-SB03	00	01	N	1	BG02-SS03-01		0905	SS	2								1		1		1	Matrix code: SS
BG02-SB03	04	05	N	1	BG02-SB03-05		0910	SO	2								1		1			8
BG02-SB03	09	10	N	1	BG02-SB03-10		0915	SO	2								1		1			9
BG02-SB04	00	01	N	1	BG02-SS04-01		0845	SS	2								1		1			10
BG02-SB04	03	04	N	1	BG02-SB04-04		0855	SO	2								1		1			11

	Date	Time		Date	Time
1. Relinquished By / Company: Amanda Martin AECOM	06/10/16	1400	1. Received By / Company: Transfer to FedEx	06/10/16	1400
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date 6/11/16	Time 10:30
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No: 6030202594 6

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

Cooler ID: WW000-1
Second ID: #021
Temp: 4.6 TB

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606392

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/10/16-08
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
BG02-SB04	04	05	N	1	BG02-SB04-05	06/10/16	0850	SO	2	021							1		1			12
BG02-SB04	04	05	FD	1	BG02-SB04-05DUP		0850	SO	2								1		1			13
BG02-SS05	00	01	N	1	BG02-SS05-01		0955	SS	2								1		1			14
BG02-SS06	00	01	N	1	BG02-SS06-01		0925	SS	2								1		1			15
BG02-SS07	00	01	N	1	BG02-SS07-01		0900	SS	2								1		1			16
BG02-SS08	00	01	N	1	BG02-SS08-01		0840	SS	2								1		1			17

	Date	Time		Date	Time
1. Relinquished By / Company: Amanda Martin AECOM	06/10/16	1400	1. Received By / Company: Transfer to FedEx	06/10/16	1400
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date 6/11/16	Time 10:30
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No.: 8105 0202 5946

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

Cooler ID: WW000-1
Silicone ID: 021
Temp: 4.6 TB

CUSTODY SEAL

DATE 06/10/16

SIGNATURE

CEC Quality Environmental Containers
800-255-3950 • 304-255-3900

FedEx Saturday Delivery

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

FID 5079582 10JUN16 WSHA 539C2/30BD/6A08

FedEx Express Package US Airbill

FedEx Tracking Number 8103 0202 5946

Form ID No. 0215

COC# 061016-08

1 From

Date 06/10/16

Sender's Name Amanda Martin Phone 406 564-8047

Company CEC

Address 1245 GILDON BLVD STE 900

Dept./Floor/Suite/Room

City ARLINGTON State VA ZIP 98201-4446

2 Your Internal Billing Reference 60443903 # 1

3 To

Recipient's Name KATHY GRIFFIN Phone 734 262-2100

Company RTI LABORATORIES ENV SCI DIV

Address 31428 GLENDALE STE 161

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City LIVONIA State MI ZIP 48150

Hold Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday
FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8103 0202 5946

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [X] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

[ ] FedEx Envelope* [ ] FedEx Pak* [ ] FedEx Box [ ] FedEx Tube [X] Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

[X] Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

*Restrictions apply for dangerous goods — see the current FedEx Service Guide.

[ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages ____ Total Weight ____ lbs.

Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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fedex.com 1.800.GoFedEx 1.800.463.3339

Address We cannot deliver to P.O. boxes or P.O. ZIP codes.

ZIP Country

Floor/Suite/Room

Date

Chain of Custody

1606392

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060116-01
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
FieldQC	-	-	TB	1	TB-SO-060916-01	06/09/16	0910	WQ	4	014	4											18
H17-SB01	00	01	N	1	H17-SS01-01	"	1340	SO	8	"	4			1	1			1	1			19
H17-SB02	00	01	N	1	H17-SS02-01	"	1520	SO	8	"	4			1	1			1	1			20
H17-SB03	00	01	N	1	H17-SS03-01	"	1425	SO	8	"	4			1	1			1	1			21
BG01-SB01	00	01	N	1	BG01-SS01-01	"	1105	~~SE~~	2								1		1			Matrix: SS
BG01-SB01	04	05	N	1	BG01-SB01-05	"	1110	SO	2	"							1		1			
BG01-SB01	05	06	N	1	BG01-SB01-06	"	1120	SO	2	"							1		1			

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time		
Amanda Martin AECOM	06/10/16	1400	Transfer to FedEx	06/10/16	1400		
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time		
				6/11/16	10:30		
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time		

Comments

Shipment Method/Airbill No. 810502025979

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

Cooler: Blue Sue
Seal ID: #014
Temp: 2.9 TB

00139

00152

Fed Express

Package US Airbill

FedEx Tracking Number 8103 0202 5979

Form ID No. 0215

1 From

Date 06/10/2016

Sender's Name Amanda Marton Phone

Company QEC

Address 1001 WILSON BLVD STE 900

City ARLINGTON State VA ZIP 22201-2445 Dept./Floor/Suite/Room

2 Your Internal Billing Reference

3 To

Recipient's Name KATHY GRIFFIN Phone 734 222-2[illegible]

Company NTL LABORATORIES - ENV SCI DIV

Address 31623 GLENDALE STREET

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City LIVONIA State MI ZIP 48150

Hold Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0123459941

8103 0202 5979

4 Express Package Service * To most locations. Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

- [ ] Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth.

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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711

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FedEx

FedEx Saturday Delivery

15197 REV 7/06 RRD

USTODY SEAL

ATE 06/10/16

GNATURE

QEC

Quality Environmental Containers

800-255-3950 • 304-255-3900

FID 507958Z 10JUN16 WSHA 6392/30BD/6A08

X0 CFAA

4815O

MI-US

DTW

PRIORITY OVERNIGHT

TRK# 0215 8103 0202 5979

FedEx

Page 111 of 111

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Friday, August 26, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606422

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606422-001A	TB-GW-061016-01		6/10/2016 10:00 AM	6/14/2016 9:41 AM	Water
1606422-002A	STB-SB01-GW		6/10/2016 2:50 PM	6/14/2016 9:41 AM	Groundwater
1606422-002B	STB-SB01-GW		6/10/2016 2:50 PM	6/14/2016 9:41 AM	Groundwater
1606422-003A	STB-SB03-GW		6/10/2016 4:20 PM	6/14/2016 9:41 AM	Groundwater
1606422-003B	STB-SB03-GW		6/10/2016 4:20 PM	6/14/2016 9:41 AM	Groundwater
1606422-004A	F100C-SB01-GW		6/12/2016 9:30 AM	6/14/2016 9:41 AM	Groundwater
1606422-005A	F100C-SB02-GW		6/12/2016 9:15 AM	6/14/2016 9:41 AM	Groundwater
1606422-006A	2010-SB02-GW		6/12/2016 10:00 AM	6/14/2016 9:41 AM	Groundwater
1606422-007A	TB-GW-061216-01		6/12/2016 8:10 AM	6/14/2016 9:41 AM	Water
1606422-008A	WDS-SB21-GW		6/12/2016 11:30 AM	6/14/2016 9:41 AM	Groundwater
1606422-008B	WDS-SB21-GW		6/12/2016 11:30 AM	6/14/2016 9:41 AM	Groundwater
1606422-008C	WDS-SB21-GW		6/12/2016 11:30 AM	6/14/2016 9:41 AM	Groundwater
1606422-008D	WDS-SB21-GW		6/12/2016 11:30 AM	6/14/2016 9:41 AM	Groundwater
1606422-009A	WDS-SB20-GW		6/12/2016 2:50 PM	6/14/2016 9:41 AM	Groundwater
1606422-009B	WDS-SB20-GW		6/12/2016 2:50 PM	6/14/2016 9:41 AM	Groundwater
1606422-009C	WDS-SB20-GW		6/12/2016 2:50 PM	6/14/2016 9:41 AM	Groundwater
1606422-009D	WDS-SB20-GW		6/12/2016 2:50 PM	6/14/2016 9:41 AM	Groundwater

RTI Laboratories - Case Narrative

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical Report revised 9/1/2016: Sampple ID 1606422-006 was update to 2010-SB02-GW.
Analytical report revised: removed 1,2,4-Trichlorobenzene and 1,2-Dichlorobenzene from VOC 8260 analytes list.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Metals, ICP/MS - 6020
- Metals, ICP/MS - 6020A-PB-STAR
- Silver and/or Antimony, ICP/MS - 6020A-SA
- Polychlorinated Biphenyls - 8082A
- Volatile Organic Compounds - 8260C
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM
- Semi-Volatile Organic Compounds - 8270D-SIM-STAR

Prep Batch (SW_3510BNA) / 40262:
Samples 1606422-008B, -008B MS and -008B MSD: Samples re-extracted and analyzed due to surrogate failures in initial run. Samples were prepped past the recommended hold time by 7.88 days. Both Re-analysis and original analysis were reported.

Analytical Comments for Test SW_8260A, Analytical Run No 86803, Batch ID R86803:
Sample VOA10 CCV 062116: CCV results for 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane and Chlorodibromomethane exceeded the 20% criteria.
Sample 1606422-002AMS: Recoveries for 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, Methylene chloride and Toluene exceeded control limits.
Sample 1606422-002AMSD: Recoveries for 1,2,4-Trichlorobenzene, and 1,2-Dibromo-3-chloropropane exceeded control limits.
Sample 1606422-008AMSD: Recoveries for 1,2,4-Trichlorobenzene, and 1,2-Dibromo-3-chloropropane exceeded control limits. RPD percentage for Acetone exceeded control limits.
Sample VOA10 CCVE 062116: Ending CCV results for 1,2,4-Trichlorobenzene, and Dichlorodifluoromethane exceeded the 50% criteria.

Analytical Comments for Test SW_8270A, Analytical Run No 86884, Batch ID 40190:
Sample ICV S8 050216: Recoveries for Benzoic acid and Bis(2-chloroisopropyl)ether were outside control criteria.
Sample CCV S8 062116: Recoveries for 2,4-Dinitrophenol, Benzoic acid, Bis(2-chloroisopropyl)ether, N-Nitrosodimethylamine and Pentachlorophenol were outside control criteria.
Sample MB-40109: Surrogate recovery for Phenol-d5 was outside control criteria.
Sample LCS-40190: Recoveries for 4-Nitrophenol, N-Nitrosodimethylamine and Phenol exceeded control limits.
Sample LCSD-40190: Recoveries for 4-Nitrophenol, N-Nitrosodimethylamine and Phenol exceeded control limits.

Analytical Comments for Test SW_8270A, Analytical Run No 87440, Batch ID 40262:
Sample ICV S7 031416: Recovery for Bis(2-chloroisopropyl)ether was outside 20% control criteria.
Sample CCV S7 063016: Recovery for Bis(2-chloroisopropyl)ether was outside 20% control criteria.
Sample LCS-40262: Recoveries for N-Nitrosodimethylamine and Phenol exceeded the recovery limits.
Sample 1606422-008BMS: Recovery for several compounds exceeded control limits due to sample matrix. Surrogate recovery for Phenol-d5 was outside control criteria.
Sample 1606422-008BMSD: Recovery for several compounds exceeded control limits due to sample matrix. RPD percentages for 1,4-Dichlorobenzene and N-Nitrosodimethylamine were above control criteria.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86748, Batch ID 40156:
Sample LCS-40156: LCS results for 4-Nitrophenol, and N-Nitrosodimethylamine exceeded recovery control limits

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86748, Batch ID 40170:
Sample MB-40170: Surrogate recovery for Phenol-d5 was outside control criteria.
Sample LCS-40170: LCS result for N-Nitrosodimethylamine exceeded recovery control limits.
Sample 1606422-002B: Surrogate Phenol-d5 exceeded recovery control limit.
Sample 1606422-002BMS: Recoveries for several analytes exceeded control limits. Surrogates recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Phenol-d5 were outside control criteria.
Sample 1606422-002BMSD: Results and RPD percentages for several analytes exceeded control limits. Surrogate recovery for Phenol-d5 was outside control criteria.
Sample 1606422-003B: Surrogate Phenol-d5, Nitrobenzene-d5, and 2-Fluorobiphenyl exceeded recovery control limit.
Sample 1606422-008B: Surrogates Nitrobenzene-d5, and 2-Fluorobiphenyl exceeded recovery control limit.

Sample 1606422-008BMS: Results 4-Bromophenyl phenyl ether, 4-Nitrophenol, Hexachlorobenzene, N-Nitrosodimethylamine, and Phenol exceeded control limits. Surrogate recovery for Phenol-d5 was outside control criteria.
Sample 1606422-008BMSD: Results for 4-Nitrophenol, Hexachlorobenzene, N-Nitrosodimethylamine and Phenol exceeded recovery control limit. RPD percentage for Pentachlorophenol exceeded control limits. Surrogate recovery for Phenol-d5 was outside control criteria.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86748, Batch ID R86748:
Sample ICV S8 050216: ICV results for Benzoic acid and Bis(2-chloroisopropyl) ether exceeded the 20% criteria.
Sample CCV S8 061616: CCV results for 2,4-Dinitrophenol, 2-Nitrophenol, and 4,6-Dinitro-2-methylphenol exceeded the 20% criteria.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86836, Batch ID 40190:
Sample ICV S8 050216: ICV results for Benzoic acid and Bis(2-chloroisopropyl) ether exceeded the 20% criteria
Sample CCV S8 062116: CCV results for 2,4-Dinitrophenol, Benzoic acid and Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine and Pentachlorophenol exceeded the 20% criteria.

Sample MB-40190: Surrogate recovery for Phenol-d5 was outside the control limits.
Sample LCS-40190: Recoveries for 4-Nitrophenol, Benzoic Acid, N-Nitrosodimethylamine and Phenol exceeded control limit. Surrogate recovery for Phenol-d5 was outside control criteria.
Sample LCSD-40190: Recoveries for 4-Nitrophenol and N-Nitrosodimethylamine exceeded control limits. The RPD percentage for Benzoic Acid was above control limit. Surrogate recovery for Phenol-d5 was outside control criteria.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87381, Batch ID 40262:
Sample ICV S7 031416: ICV result for Bis(2-chloroisopropyl) ether exceeded the 20% criteria.
Sample CCV S7 063016: CCV results for Benzoic acid and Bis(2-chloroisopropyl) ether exceeded the 20% criteria.
Sample MB-40262: Surrogate recovery for Phenol-d5 was outside control criteria.
Sample LCS-40262: Recoveries for Benzoic Acid, N-Nitrosodimethylamine and Phenol exceeded the control limit.
Sample 1606422-009BMS: Spike recoveries for several compounds were outside the control limits. Surrogate recovery for Phenol-d5 was outside control criteria.
Sample 1606422-009BMSD: Spike recoveries for several compounds were outside the control limits. RPD percentage for 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, N-Nitrosodimethyamine were outside the control limits. Surrogate recovery for Phenol-d5 was outside control criteria.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87471, Batch ID 40179:
Sample 1606422-002B: Surrogate recovery for 2-Fluorobiphenyl was outside the control limits.
Sample 1606422-002BMS: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limit

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 10:00:00 AM
Project:	Camp Hero		
Lab ID:	1606422-001	**Matrix:**	Water
Client Sample ID:	TB-GW-061016-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/21/2016 10:10 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/21/2016 10:10 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/21/2016 10:10 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/21/2016 10:10 AM
Acetone	3.1	J	0.56	0.60	10	µg/L	1	6/21/2016 10:10 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/21/2016 10:10 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/21/2016 10:10 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/21/2016 10:10 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/21/2016 10:10 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/21/2016 10:10 AM
Surr: 4-Bromofluorobenzene	89.4			85-114		%Rec	1	6/21/2016 10:10 AM
Surr: Dibromofluoromethane	85.8			80-119		%Rec	1	6/21/2016 10:10 AM
Surr: Toluene-d8	93.0			89-112		%Rec	1	6/21/2016 10:10 AM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 2:50:00 PM
Project:	Camp Hero		
Lab ID:	1606422-002	**Matrix:**	Groundwater
Client Sample ID:	STB-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.95	UX	0.86	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
1,2-Dichlorobenzene	0.95	UX	0.88	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
1,3-Dichlorobenzene	0.95	UX	0.72	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
1,4-Dichlorobenzene	2.4	UX	0.99	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
2,4,6-Trichlorophenol	0.95	U	0.91	0.95	3.8	µg/L	1	6/16/2016 8:12 PM
2,4-Dichlorophenol	2.4	UX	1.3	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
2,4-Dinitrophenol	9.5	UY	4.8	9.5	24	µg/L	1	6/16/2016 8:12 PM
2,4-Dinitrotoluene	0.95	U	0.57	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
2,6-Dinitrotoluene	0.95	U	0.81	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
2-Chloronaphthalene	0.95	UX	0.84	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
2-Chlorophenol	0.95	UX	0.83	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
2-Methylphenol (o-Cresol)	0.95	U	0.95	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
2-Nitroaniline	0.95	U	0.84	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
2-Nitrophenol	2.4	UYX	1.2	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/16/2016 8:12 PM
3-Nitroaniline	0.95	U	0.79	0.95	9.5	µg/L	1	6/16/2016 8:12 PM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.7	4.8	9.5	µg/L	1	6/16/2016 8:12 PM
4,6-Dinitro-2-methylphenol	0.95	UY	0.85	0.95	9.5	µg/L	1	6/16/2016 8:12 PM
4-Bromophenyl phenyl ether	0.95	UX	0.75	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
4-Chloroaniline [p-Chloroaniline]	0.95	U	0.77	0.95	9.5	µg/L	1	6/16/2016 8:12 PM
4-Chlorophenyl phenyl ether	0.95	UX	0.75	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.5	µg/L	1	6/16/2016 8:12 PM
4-Nitrophenol	2.4	UX	1.3	2.4	24	µg/L	1	6/16/2016 8:12 PM
Benzoic acid	2.4	UZ	1.9	2.4	24	µg/L	1	6/16/2016 8:12 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/16/2016 8:12 PM
Bis(2-chloroethoxy) methane	2.4	UX	1.0	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
Bis(2-chloroethyl) ether	2.4	UX	0.98	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
Bis(2-chloroisopropyl)ether	2.4	UXZ	1.1	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
Bis(2-ethylhexyl) phthalate	0.95	U	0.67	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Butyl benzyl phthalate	2.4	U	0.98	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
Carbazole	0.95	U	0.58	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Di-n-butyl phthalate	0.95	U	0.55	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	6/16/2016 8:12 PM
Dibenzofuran	0.95	UX	0.72	0.95	3.8	µg/L	1	6/16/2016 8:12 PM
Diethyl phthalate	0.95	U	0.59	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Dimethyl phthalate	0.95	U	0.68	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Hexachlorobenzene	0.95	UX	0.58	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Hexachlorobutadiene	0.95	UX	0.81	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Hexachloroethane	0.95	UX	0.70	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Isophorone	0.95	UX	0.92	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
N-Nitroso-di-n-propylamine	2.4	UX	1.1	2.4	4.8	µg/L	1	6/16/2016 8:12 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 2:50:00 PM
Project: Camp Hero
Lab ID: 1606422-002 **Matrix:** Groundwater
Client Sample ID: STB-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
N-Nitrosodimethylamine	0.95	UQ X	0.60	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
N-Nitrosodiphenylamine	0.95	U	0.63	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Nitrobenzene	2.4	UX	1.2	2.4	2.9	µg/L	1	6/16/2016 8:12 PM
Pentachlorophenol	0.95	U	0.88	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Phenol	0.95	UX	0.57	0.95	4.8	µg/L	1	6/16/2016 8:12 PM
Surr: 2,4,6-Tribromophenol	102			43-140		%Rec	1	6/16/2016 8:12 PM
Surr: 2-Fluorobiphenyl	60.8			44-119		%Rec	1	6/16/2016 8:12 PM
Surr: 2-Fluorophenol	35.6			19-119		%Rec	1	6/16/2016 8:12 PM
Surr: Nitrobenzene-d5	58.5			44-120		%Rec	1	6/16/2016 8:12 PM
Surr: Phenol-d5	25.0	Q		30-130		%Rec	1	6/16/2016 8:12 PM
Surr: Terphenyl-d14	93.2			50-134		%Rec	1	6/16/2016 8:12 PM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.27	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
2-Methylnaphthalene	0.50	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Acenaphthene	0.024		0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Anthracene	0.019	UQ	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Benz(a)anthracene	0.019	UQ	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Fluorene	0.020	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Naphthalene	0.19	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Phenanthrene	0.026	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Pyrene	0.019	UQ	0.019	0.019	0.019	µg/L	1	6/23/2016 8:11 PM
Surr: 2-Fluorobiphenyl	117	Q		53-106		%Rec	1	6/23/2016 8:11 PM
Surr: Nitrobenzene-d5	90.2			55-111		%Rec	1	6/23/2016 8:11 PM
Surr: Terphenyl-d14	124			58-132		%Rec	1	6/23/2016 8:11 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/21/2016 10:36 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
1,2-Dibromo-3-chloropropane	2.0	UY X	1.0	2.0	5.0	µg/L	1	6/21/2016 10:36 AM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 2:50:00 PM
Project:	Camp Hero		
Lab ID:	1606422-002	**Matrix:**	Groundwater
Client Sample ID:	STB-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
2-Butanone [MEK]	19		2.3	5.0	10	µg/L	1	6/21/2016 10:36 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/21/2016 10:36 AM
Acetone	13		0.56	0.60	10	µg/L	1	6/21/2016 10:36 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Carbon disulfide	1.0		0.54	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/21/2016 10:36 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Methylene chloride	0.60	UX	0.27	0.60	5.0	µg/L	1	6/21/2016 10:36 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Toluene	0.60	UX	0.50	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/21/2016 10:36 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/21/2016 10:36 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/21/2016 10:36 AM
Surr: 4-Bromofluorobenzene	93.0			85-114		%Rec	1	6/21/2016 10:36 AM
Surr: Dibromofluoromethane	87.7			80-119		%Rec	1	6/21/2016 10:36 AM
Surr: Toluene-d8	92.0			89-112		%Rec	1	6/21/2016 10:36 AM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 4:20:00 PM
Project:	Camp Hero		
Lab ID:	1606422-003	**Matrix:**	Groundwater
Client Sample ID:	STB-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.96	U	0.87	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
1,2-Dichlorobenzene	0.96	U	0.89	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
1,3-Dichlorobenzene	0.96	U	0.73	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
1,4-Dichlorobenzene	2.4	U	1.0	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
2,4,6-Trichlorophenol	0.96	U	0.92	0.96	3.8	µg/L	1	6/17/2016 2:23 AM
2,4-Dichlorophenol	2.4	U	1.4	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
2,4-Dinitrophenol	9.6	UY	4.9	9.6	24	µg/L	1	6/17/2016 2:23 AM
2,4-Dinitrotoluene	0.96	U	0.58	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
2,6-Dinitrotoluene	0.96	U	0.82	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
2-Chloronaphthalene	0.96	U	0.85	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
2-Chlorophenol	0.96	U	0.84	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
2-Methylphenol (o-Cresol)	0.96	U	0.96	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
2-Nitroaniline	0.96	U	0.84	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
2-Nitrophenol	2.4	UY	1.2	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/17/2016 2:23 AM
3-Nitroaniline	0.96	U	0.80	0.96	9.6	µg/L	1	6/17/2016 2:23 AM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.8	4.8	9.6	µg/L	1	6/17/2016 2:23 AM
4,6-Dinitro-2-methylphenol	0.96	UY	0.85	0.96	9.6	µg/L	1	6/17/2016 2:23 AM
4-Bromophenyl phenyl ether	0.96	U	0.76	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
4-Chloroaniline [p-Chloroaniline]	0.96	U	0.78	0.96	9.6	µg/L	1	6/17/2016 2:23 AM
4-Chlorophenyl phenyl ether	0.96	U	0.76	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
4-Nitroaniline	2.4	U	1.1	2.4	9.6	µg/L	1	6/17/2016 2:23 AM
4-Nitrophenol	2.4	U	1.3	2.4	24	µg/L	1	6/17/2016 2:23 AM
Benzoic acid	2.4	UZ	2.0	2.4	24	µg/L	1	6/17/2016 2:23 AM
Benzyl alcohol	2.4	U	2.1	2.4	24	µg/L	1	6/17/2016 2:23 AM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
Bis(2-chloroethyl) ether	2.4	U	0.99	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
Bis(2-chloroisopropyl)ether	2.4	UZ	1.1	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
Bis(2-ethylhexyl) phthalate	0.96	U	0.67	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Butyl benzyl phthalate	2.4	U	0.99	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
Carbazole	0.96	U	0.59	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Di-n-butyl phthalate	0.96	U	0.56	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
Dibenzofuran	0.96	U	0.72	0.96	3.8	µg/L	1	6/17/2016 2:23 AM
Diethyl phthalate	0.96	U	0.59	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Dimethyl phthalate	0.96	U	0.68	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Hexachlorobenzene	0.96	U	0.59	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Hexachlorobutadiene	0.96	U	0.82	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Hexachloroethane	0.96	U	0.71	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Isophorone	0.96	U	0.92	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.8	µg/L	1	6/17/2016 2:23 AM
N-Nitrosodimethylamine	0.96	UQ	0.61	0.96	4.8	µg/L	1	6/17/2016 2:23 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 4:20:00 PM
Project:	Camp Hero		
Lab ID:	1606422-003	**Matrix:**	Groundwater
Client Sample ID:	STB-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
N-Nitrosodiphenylamine	0.96	U	0.64	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/17/2016 2:23 AM
Pentachlorophenol	0.96	U	0.88	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Phenol	0.96	U	0.58	0.96	4.8	µg/L	1	6/17/2016 2:23 AM
Surr: 2,4,6-Tribromophenol	102			43-140		%Rec	1	6/17/2016 2:23 AM
Surr: 2-Fluorobiphenyl	38.2	Q		44-119		%Rec	1	6/17/2016 2:23 AM
Surr: 2-Fluorophenol	20.6			19-119		%Rec	1	6/17/2016 2:23 AM
Surr: Nitrobenzene-d5	32.9	Q		44-120		%Rec	1	6/17/2016 2:23 AM
Surr: Phenol-d5	14.4	JQ		30-130		%Rec	1	6/17/2016 2:23 AM
Surr: Terphenyl-d14	98.0			50-134		%Rec	1	6/17/2016 2:23 AM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.14	Q	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
2-Methylnaphthalene	0.23	Q	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Acenaphthene	0.085		0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Acenaphthylene	0.054		0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Anthracene	0.18	Q	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Benz(a)anthracene	0.10	Q	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Benzo(a)pyrene	0.028		0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Benzo(b)fluoranthene	0.038		0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Benzo(g,h,i)perylene	0.021	U	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Benzo(k)fluoranthene	0.024		0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Chrysene	0.032		0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Dibenzo(a,h)anthracene	0.021	U	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Fluoranthene	0.13		0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Fluorene	0.13	Q	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Indeno(1,2,3-cd)pyrene	0.021	U	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Naphthalene	0.14	Q	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Phenanthrene	0.19	Q	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Pyrene	0.13	Q	0.021	0.021	0.021	µg/L	1	6/23/2016 9:35 PM
Surr: 2-Fluorobiphenyl	143	Q		53-106		%Rec	1	6/23/2016 9:35 PM
Surr: Nitrobenzene-d5	97.5			55-111		%Rec	1	6/23/2016 9:35 PM
Surr: Terphenyl-d14	121			58-132		%Rec	1	6/23/2016 9:35 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/21/2016 11:02 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/21/2016 11:02 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/21/2016 11:02 AM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 4:20:00 PM
Project:	Camp Hero		
Lab ID:	1606422-003	**Matrix:**	Groundwater
Client Sample ID:	STB-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2-Butanone [MEK]	5.3	J	2.3	5.0	10	µg/L	1	6/21/2016 11:02 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/21/2016 11:02 AM
Acetone	8.0	J	0.56	0.60	10	µg/L	1	6/21/2016 11:02 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/21/2016 11:02 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/21/2016 11:02 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/21/2016 11:02 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/21/2016 11:02 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/21/2016 11:02 AM
Surr: 4-Bromofluorobenzene	91.5			85-114		%Rec	1	6/21/2016 11:02 AM
Surr: Dibromofluoromethane	88.8			80-119		%Rec	1	6/21/2016 11:02 AM
Surr: Toluene-d8	91.9			89-112		%Rec	1	6/21/2016 11:02 AM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:30:00 AM
Project:	Camp Hero		
Lab ID:	1606422-004	**Matrix:**	Groundwater
Client Sample ID:	F100C-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	88		0.24	0.50	1.0	µg/L	5	7/7/2016 5:12 PM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606422-005	**Matrix:**	Groundwater
Client Sample ID:	F100C-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	33		0.24	0.50	1.0	µg/L	5	7/7/2016 5:13 PM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 10:00:00 AM
Project:	Camp Hero		
Lab ID:	1606422-006	**Matrix:**	Groundwater
Client Sample ID:	2010-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	23		0.24	0.50	1.0	µg/L	5	7/7/2016 5:25 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 8:10:00 AM
Project:	Camp Hero		
Lab ID:	1606422-007	**Matrix:**	Water
Client Sample ID:	TB-GW-061216-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/21/2016 11:28 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/21/2016 11:28 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/21/2016 11:28 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/21/2016 11:28 AM
Acetone	2.3	J	0.56	0.60	10	µg/L	1	6/21/2016 11:28 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/21/2016 11:28 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/21/2016 11:28 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/21/2016 11:28 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/21/2016 11:28 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/21/2016 11:28 AM
Surr: 4-Bromofluorobenzene	89.7			85-114		%Rec	1	6/21/2016 11:28 AM
Surr: Dibromofluoromethane	89.1			80-119		%Rec	1	6/21/2016 11:28 AM
Surr: Toluene-d8	92.6			89-112		%Rec	1	6/21/2016 11:28 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 11:30:00 AM
Project: Camp Hero
Lab ID: 1606422-008 **Matrix:** Groundwater
Client Sample ID: WDS-SB21-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/28/2016 8:53 PM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/28/2016 8:53 PM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/28/2016 8:53 PM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/28/2016 8:53 PM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/28/2016 8:53 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/28/2016 8:53 PM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/28/2016 8:53 PM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/28/2016 8:53 PM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/28/2016 8:53 PM
Surr: Tetrachloro-m-xylene	55.1			40-135		%Rec	1	6/28/2016 8:53 PM
Surr: Decachlorobiphenyl	46.3			40-135		%Rec	1	6/28/2016 8:53 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	1,700	GX	1.4	2.5	50	µg/L	5	7/27/2016 2:22 PM
Arsenic	1.0	U	0.61	1.0	1.5	µg/L	5	7/27/2016 2:22 PM
Barium	19	J	0.18	0.50	25	µg/L	5	7/27/2016 2:22 PM
Beryllium	0.50	U	0.25	0.50	1.0	µg/L	5	7/27/2016 2:22 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/27/2016 2:22 PM
Calcium	2,000		90	120	1,000	µg/L	5	7/27/2016 2:22 PM
Chromium	2.1	J	0.30	0.50	10	µg/L	5	7/27/2016 2:22 PM
Cobalt	1.5	J	0.12	0.50	5.0	µg/L	5	7/27/2016 2:22 PM
Copper	0.82	J	0.24	0.50	5.0	µg/L	5	7/27/2016 2:22 PM
Iron	1,900	X	48	120	200	µg/L	5	7/27/2016 2:22 PM
Lead	0.97	J	0.24	0.50	1.0	µg/L	5	7/27/2016 2:22 PM
Magnesium	1,800		41	120	500	µg/L	5	7/27/2016 2:22 PM
Manganese	240		0.26	0.50	5.0	µg/L	5	7/27/2016 2:22 PM
Nickel	1.9	J	0.20	0.50	10	µg/L	5	7/27/2016 2:22 PM
Potassium	2,400	X	110	120	500	µg/L	5	7/27/2016 2:22 PM
Selenium	1.5	J	1.5	2.5	5.0	µg/L	5	7/27/2016 2:22 PM
Sodium	14,000	X	58	120	500	µg/L	5	7/27/2016 2:22 PM
Thallium	0.50	U	0.16	0.50	2.0	µg/L	5	7/27/2016 2:22 PM
Vanadium	2.7	J	0.49	0.50	4.0	µg/L	5	7/27/2016 2:22 PM
Zinc	2.5	U	1.8	2.5	50	µg/L	5	7/27/2016 2:22 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.3	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:44 AM
Silver	0.60	JG	0.24	0.50	1.5	µg/L	5	6/16/2016 11:44 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.93	U	0.84	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
1,2,4-Trichlorobenzene	0.94	UH	0.85	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
1,2-Dichlorobenzene	0.93	U	0.86	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
1,2-Dichlorobenzene	0.94	UH	0.87	0.94	4.7	µg/L	1	6/30/2016 5:26 PM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 11:30:00 AM
Project: Camp Hero
Lab ID: 1606422-008 **Matrix:** Groundwater
Client Sample ID: WDS-SB21-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,3-Dichlorobenzene	0.93	U	0.71	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
1,3-Dichlorobenzene	0.94	UH	0.71	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
1,4-Dichlorobenzene	2.3	U	0.97	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
1,4-Dichlorobenzene	2.4	UH	0.98	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
2,4,5-Trichlorophenol	2.3	U	1.0	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
2,4,5-Trichlorophenol	2.4	UH	1.0	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
2,4,6-Trichlorophenol	0.93	U	0.90	0.93	3.7	µg/L	1	6/16/2016 9:26 PM
2,4,6-Trichlorophenol	0.94	UH	0.91	0.94	3.8	µg/L	1	6/30/2016 5:26 PM
2,4-Dichlorophenol	2.3	U	1.3	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
2,4-Dichlorophenol	2.4	UH	1.3	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
2,4-Dimethyl phenol	2.3	U	2.1	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
2,4-Dimethyl phenol	2.4	UH	2.1	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
2,4-Dinitrophenol	9.3	UY	4.7	9.3	23	µg/L	1	6/16/2016 9:26 PM
2,4-Dinitrophenol	9.4	UH	4.8	9.4	24	µg/L	1	6/30/2016 5:26 PM
2,4-Dinitrotoluene	0.93	U	0.56	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
2,4-Dinitrotoluene	0.94	UH	0.57	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
2,6-Dinitrotoluene	0.93	U	0.79	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
2,6-Dinitrotoluene	0.94	UH	0.80	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
2-Chloronaphthalene	0.93	U	0.83	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
2-Chloronaphthalene	0.94	UH	0.83	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
2-Chlorophenol	0.93	U	0.81	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
2-Chlorophenol	0.94	UH	0.82	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
2-Methylphenol (o-Cresol)	0.93	U	0.93	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
2-Methylphenol (o-Cresol)	0.94	UH	0.94	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
2-Nitroaniline	0.93	U	0.82	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
2-Nitroaniline	0.94	UH	0.83	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
2-Nitrophenol	2.3	UY	1.2	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
2-Nitrophenol	2.4	UH	1.2	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
3,3´-Dichlorobenzidine	2.3	U	1.5	2.3	19	µg/L	1	6/16/2016 9:26 PM
3,3´-Dichlorobenzidine	2.4	UH	1.5	2.4	19	µg/L	1	6/30/2016 5:26 PM
3-Nitroaniline	0.93	U	0.78	0.93	9.3	µg/L	1	6/16/2016 9:26 PM
3-Nitroaniline	0.94	UH	0.79	0.94	9.4	µg/L	1	6/30/2016 5:26 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.3	µg/L	1	6/16/2016 9:26 PM
3/4-Methylphenol [m/p-Cresol]	4.7	UH	1.7	4.7	9.4	µg/L	1	6/30/2016 5:26 PM
4,6-Dinitro-2-methylphenol	0.93	UY	0.83	0.93	9.3	µg/L	1	6/16/2016 9:26 PM
4,6-Dinitro-2-methylphenol	0.94	UH	0.84	0.94	9.4	µg/L	1	6/30/2016 5:26 PM
4-Bromophenyl phenyl ether	0.93	UX	0.74	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
4-Bromophenyl phenyl ether	0.94	UH	0.74	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
4-Chloro-3-methylphenol	2.3	U	1.2	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
4-Chloro-3-methylphenol	2.4	UH	1.2	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
4-Chloroaniline [p-Chloroaniline]	0.93	U	0.76	0.93	9.3	µg/L	1	6/16/2016 9:26 PM
4-Chloroaniline [p-Chloroaniline]	0.94	UH	0.76	0.94	9.4	µg/L	1	6/30/2016 5:26 PM
4-Chlorophenyl phenyl ether	0.93	U	0.74	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
4-Chlorophenyl phenyl ether	0.94	UH	0.74	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
4-Nitroaniline	2.3	U	1.1	2.3	9.3	µg/L	1	6/16/2016 9:26 PM
4-Nitroaniline	2.4	UH	1.1	2.4	9.4	µg/L	1	6/30/2016 5:26 PM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 11:30:00 AM
Project: Camp Hero
Lab ID: 1606422-008 **Matrix:** Groundwater
Client Sample ID: WDS-SB21-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
4-Nitrophenol	2.3	UX	1.3	2.3	23	µg/L	1	6/16/2016 9:26 PM
4-Nitrophenol	2.4	UH	1.3	2.4	24	µg/L	1	6/30/2016 5:26 PM
Benzoic acid	2.3	UZ	1.9	2.3	23	µg/L	1	6/16/2016 9:26 PM
Benzoic acid	2.4	UY QH	1.9	2.4	24	µg/L	1	6/30/2016 5:26 PM
Benzyl alcohol	2.3	U	2.0	2.3	23	µg/L	1	6/16/2016 9:26 PM
Benzyl alcohol	2.4	UH	2.0	2.4	24	µg/L	1	6/30/2016 5:26 PM
Bis(2-chloroethoxy) methane	2.3	U	0.98	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
Bis(2-chloroethoxy) methane	2.4	UH	0.99	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
Bis(2-chloroethyl) ether	2.3	U	0.97	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
Bis(2-chloroethyl) ether	2.4	UH	0.97	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
Bis(2-chloroisopropyl)ether	2.3	UZ	1.0	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
Bis(2-chloroisopropyl)ether	2.4	UY ZH	1.1	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
Bis(2-ethylhexyl) phthalate	0.93	U	0.66	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Bis(2-ethylhexyl) phthalate	0.94	UH	0.66	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Butyl benzyl phthalate	2.3	U	0.96	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
Butyl benzyl phthalate	2.4	UH	0.97	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
Carbazole	0.93	U	0.57	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Carbazole	0.94	UH	0.57	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Di-n-butyl phthalate	0.93	U	0.54	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Di-n-butyl phthalate	0.94	UH	0.55	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Di-n-octyl phthalate	2.3	U	1.1	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
Di-n-octyl phthalate	2.4	UH	1.1	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
Dibenzofuran	0.93	U	0.70	0.93	3.7	µg/L	1	6/16/2016 9:26 PM
Dibenzofuran	0.94	UH	0.71	0.94	3.8	µg/L	1	6/30/2016 5:26 PM
Diethyl phthalate	0.93	U	0.58	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Diethyl phthalate	0.94	UH	0.58	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Dimethyl phthalate	0.93	U	0.67	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Dimethyl phthalate	0.94	UH	0.67	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Hexachlorobenzene	0.93	UX	0.57	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Hexachlorobenzene	0.94	UH	0.58	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Hexachlorobutadiene	0.93	U	0.80	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Hexachlorobutadiene	0.94	UH	0.81	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Hexachloroethane	0.93	U	0.69	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Hexachloroethane	0.94	UH	0.69	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Isophorone	0.93	U	0.90	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Isophorone	0.94	UH	0.91	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
N-Nitroso-di-n-propylamine	2.3	U	1.0	2.3	4.7	µg/L	1	6/16/2016 9:26 PM
N-Nitroso-di-n-propylamine	2.4	UH	1.1	2.4	4.7	µg/L	1	6/30/2016 5:26 PM
N-Nitrosodimethylamine	0.93	UQ X	0.59	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
N-Nitrosodimethylamine	0.94	UQ H	0.60	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
N-Nitrosodiphenylamine	0.93	U	0.62	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
N-Nitrosodiphenylamine	0.94	UH	0.62	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Nitrobenzene	2.3	U	1.1	2.3	2.8	µg/L	1	6/16/2016 9:26 PM
Nitrobenzene	2.4	UH	1.2	2.4	2.8	µg/L	1	6/30/2016 5:26 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 11:30:00 AM
Project: Camp Hero
Lab ID: 1606422-008 **Matrix:** Groundwater
Client Sample ID: WDS-SB21-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pentachlorophenol	0.93	U	0.86	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Pentachlorophenol	0.94	UH	0.87	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Phenol	0.93	UX	0.56	0.93	4.7	µg/L	1	6/16/2016 9:26 PM
Phenol	0.94	UQH	0.57	0.94	4.7	µg/L	1	6/30/2016 5:26 PM
Surr: 2,4,6-Tribromophenol	83.0			43-140		%Rec	1	6/16/2016 9:26 PM
Surr: 2,4,6-Tribromophenol	101	H		43-140		%Rec	1	6/30/2016 5:26 PM
Surr: 2-Fluorobiphenyl	39.8	Q		44-119		%Rec	1	6/16/2016 9:26 PM
Surr: 2-Fluorobiphenyl	71.0	H		44-119		%Rec	1	6/30/2016 5:26 PM
Surr: 2-Fluorophenol	23.4			19-119		%Rec	1	6/16/2016 9:26 PM
Surr: 2-Fluorophenol	39.6	H		19-119		%Rec	1	6/30/2016 5:26 PM
Surr: Nitrobenzene-d5	36.0	Q		44-120		%Rec	1	6/16/2016 9:26 PM
Surr: Nitrobenzene-d5	65.8	H		44-120		%Rec	1	6/30/2016 5:26 PM
Surr: Phenol-d5	14.8	JQ		30-130		%Rec	1	6/16/2016 9:26 PM
Surr: Phenol-d5	27.1	QH		30-130		%Rec	1	6/30/2016 5:26 PM
Surr: Terphenyl-d14	95.7			50-134		%Rec	1	6/16/2016 9:26 PM
Surr: Terphenyl-d14	89.8	H		50-134		%Rec	1	6/30/2016 5:26 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.056	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
2-Methylnaphthalene	0.087	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Anthracene	0.019	UQ	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Benz(a)anthracene	0.019	UQX	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Fluorene	0.021	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Naphthalene	0.080	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Phenanthrene	0.036	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Pyrene	0.019	UQ	0.019	0.019	0.019	µg/L	1	6/23/2016 10:04 PM
Surr: 2-Fluorobiphenyl	81.4			53-106		%Rec	1	6/23/2016 10:04 PM
Surr: Nitrobenzene-d5	87.6			55-111		%Rec	1	6/23/2016 10:04 PM
Surr: Terphenyl-d14	103			58-132		%Rec	1	6/23/2016 10:04 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/21/2016 11:54 AM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 11:30:00 AM
Project:	Camp Hero		
Lab ID:	1606422-008	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB21-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/21/2016 11:54 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
1,2-Dibromo-3-chloropropane	2.0	UY X	1.0	2.0	5.0	µg/L	1	6/21/2016 11:54 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/21/2016 11:54 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/21/2016 11:54 AM
Acetone	2.5	J	0.56	0.60	10	µg/L	1	6/21/2016 11:54 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/21/2016 11:54 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/21/2016 11:54 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/21/2016 11:54 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/21/2016 11:54 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/21/2016 11:54 AM
Surr: 4-Bromofluorobenzene	92.3			85-114		%Rec	1	6/21/2016 11:54 AM
Surr: Dibromofluoromethane	87.4			80-119		%Rec	1	6/21/2016 11:54 AM
Surr: Toluene-d8	94.6			89-112		%Rec	1	6/21/2016 11:54 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 2:50:00 PM
Project: Camp Hero
Lab ID: 1606422-009 **Matrix:** Groundwater
Client Sample ID: WDS-SB20-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.045	U	0.036	0.045	0.11	µg/L	1	6/25/2016 12:26 AM
Aroclor 1221	0.045	U	0.034	0.045	0.11	µg/L	1	6/25/2016 12:26 AM
Aroclor 1232	0.046	U	0.046	0.046	0.22	µg/L	1	6/25/2016 12:26 AM
Aroclor 1242	0.045	U	0.042	0.045	0.22	µg/L	1	6/25/2016 12:26 AM
Aroclor 1248	0.045	U	0.035	0.045	0.11	µg/L	1	6/25/2016 12:26 AM
Aroclor 1254	0.045	U	0.045	0.045	0.22	µg/L	1	6/25/2016 12:26 AM
Aroclor 1260	0.045	U	0.039	0.045	0.22	µg/L	1	6/25/2016 12:26 AM
Aroclor 1262	0.11	U	0.057	0.11	0.22	µg/L	1	6/25/2016 12:26 AM
Aroclor 1268	0.045	U	0.031	0.045	0.11	µg/L	1	6/25/2016 12:26 AM
Surr: Tetrachloro-m-xylene	66.6			40-135		%Rec	1	6/25/2016 12:26 AM
Surr: Decachlorobiphenyl	92.5			40-135		%Rec	1	6/25/2016 12:26 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	59,000		28	50	1,000	µg/L	100	7/25/2016 5:43 PM
Arsenic	8.2	G	0.61	1.0	1.5	µg/L	5	7/25/2016 1:45 PM
Barium	390		0.18	0.50	25	µg/L	5	7/25/2016 1:45 PM
Beryllium	10	U	5.0	10	20	µg/L	100	7/25/2016 5:43 PM
Cadmium	1.2		0.27	0.50	1.0	µg/L	5	7/25/2016 1:45 PM
Calcium	28,000		90	120	1,000	µg/L	5	7/25/2016 1:45 PM
Chromium	67	G	0.30	0.50	10	µg/L	5	7/25/2016 1:45 PM
Cobalt	23		0.12	0.50	5.0	µg/L	5	7/25/2016 1:45 PM
Copper	46		0.24	0.50	5.0	µg/L	5	7/25/2016 1:45 PM
Iron	46,000		950	2,500	4,000	µg/L	100	7/25/2016 4:04 PM
Lead	20		0.24	0.50	1.0	µg/L	5	7/25/2016 1:45 PM
Magnesium	16,000		41	120	500	µg/L	5	7/25/2016 1:45 PM
Manganese	2,000		0.26	0.50	5.0	µg/L	5	7/25/2016 1:45 PM
Nickel	47		0.20	0.50	10	µg/L	5	7/25/2016 1:45 PM
Potassium	11,000		110	120	500	µg/L	5	7/25/2016 1:45 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/25/2016 1:45 PM
Sodium	23,000		1,200	2,500	10,000	µg/L	100	7/25/2016 5:43 PM
Thallium	0.53	J	0.16	0.50	2.0	µg/L	5	7/25/2016 1:45 PM
Vanadium	100		0.49	0.50	4.0	µg/L	5	7/25/2016 1:45 PM
Zinc	120		1.8	2.5	50	µg/L	5	7/25/2016 1:45 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.65	JG	0.19	0.75	2.5	µg/L	5	6/16/2016 11:27 AM
Silver	0.78	J	0.24	0.50	1.5	µg/L	5	6/16/2016 11:27 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	1.3	U	1.1	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
1,2-Dichlorobenzene	1.3	U	1.2	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
1,3-Dichlorobenzene	1.3	U	0.96	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
1,4-Dichlorobenzene	3.2	U	1.3	3.2	6.3	µg/L	1	6/21/2016 1:37 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 2:50:00 PM
Project: Camp Hero
Lab ID: 1606422-009 **Matrix:** Groundwater
Client Sample ID: WDS-SB20-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	3.2	U	1.4	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
2,4,6-Trichlorophenol	1.3	U	1.2	1.3	5.1	µg/L	1	6/21/2016 1:37 PM
2,4-Dichlorophenol	3.2	U	1.8	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
2,4-Dimethyl phenol	3.2	U	2.8	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
2,4-Dinitrophenol	13	UY	6.4	13	32	µg/L	1	6/21/2016 1:37 PM
2,4-Dinitrotoluene	1.3	U	0.76	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
2,6-Dinitrotoluene	1.3	U	1.1	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
2-Chloronaphthalene	1.3	U	1.1	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
2-Chlorophenol	1.3	U	1.1	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
2-Methylphenol (o-Cresol)	1.3	U	1.3	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
2-Nitroaniline	1.3	U	1.1	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
2-Nitrophenol	3.2	U	1.6	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
3,3´-Dichlorobenzidine	3.2	U	2.1	3.2	25	µg/L	1	6/21/2016 1:37 PM
3-Nitroaniline	1.3	U	1.1	1.3	13	µg/L	1	6/21/2016 1:37 PM
3/4-Methylphenol [m/p-Cresol]	6.3	U	2.3	6.3	13	µg/L	1	6/21/2016 1:37 PM
4,6-Dinitro-2-methylphenol	1.3	U	1.1	1.3	13	µg/L	1	6/21/2016 1:37 PM
4-Bromophenyl phenyl ether	1.3	U	1.0	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
4-Chloro-3-methylphenol	3.2	U	1.6	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
4-Chloroaniline [p-Chloroaniline]	1.3	U	1.0	1.3	13	µg/L	1	6/21/2016 1:37 PM
4-Chlorophenyl phenyl ether	1.3	U	1.0	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
4-Nitroaniline	3.2	U	1.5	3.2	13	µg/L	1	6/21/2016 1:37 PM
4-Nitrophenol	3.2	UQ	1.8	3.2	32	µg/L	1	6/21/2016 1:37 PM
Benzoic acid	3.2	UY QZ	2.6	3.2	32	µg/L	1	6/21/2016 1:37 PM
Benzyl alcohol	3.2	U	2.7	3.2	32	µg/L	1	6/21/2016 1:37 PM
Bis(2-chloroethoxy) methane	3.2	U	1.3	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
Bis(2-chloroethyl) ether	3.2	U	1.3	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
Bis(2-chloroisopropyl)ether	3.2	UY Z	1.4	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
Bis(2-ethylhexyl) phthalate	1.3	U	0.89	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
Butyl benzyl phthalate	3.2	U	1.3	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
Carbazole	1.3	U	0.77	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
Di-n-butyl phthalate	1.3	U	0.74	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
Di-n-octyl phthalate	3.2	U	1.5	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
Dibenzofuran	1.3	U	0.95	1.3	5.1	µg/L	1	6/21/2016 1:37 PM
Diethyl phthalate	1.3	U	0.78	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
Dimethyl phthalate	1.3	U	0.90	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
Hexachlorobenzene	1.3	U	0.78	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
Hexachlorobutadiene	1.3	U	1.1	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
Hexachloroethane	1.3	U	0.93	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
Isophorone	1.3	U	1.2	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
N-Nitroso-di-n-propylamine	3.2	U	1.4	3.2	6.3	µg/L	1	6/21/2016 1:37 PM
N-Nitrosodimethylamine	1.3	UY Q	0.80	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
N-Nitrosodiphenylamine	1.3	U	0.84	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
Nitrobenzene	3.2	U	1.5	3.2	3.8	µg/L	1	6/21/2016 1:37 PM
Pentachlorophenol	1.3	UY	1.2	1.3	6.3	µg/L	1	6/21/2016 1:37 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 2:50:00 PM
Project: Camp Hero
Lab ID: 1606422-009 **Matrix:** Groundwater
Client Sample ID: WDS-SB20-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Phenol	1.3	UQ	0.76	1.3	6.3	µg/L	1	6/21/2016 1:37 PM
Surr: 2,4,6-Tribromophenol	83.1			43-140		%Rec	1	6/21/2016 1:37 PM
Surr: 2-Fluorobiphenyl	55.8			44-119		%Rec	1	6/21/2016 1:37 PM
Surr: 2-Fluorophenol	42.1			19-119		%Rec	1	6/21/2016 1:37 PM
Surr: Nitrobenzene-d5	57.0			44-120		%Rec	1	6/21/2016 1:37 PM
Surr: Phenol-d5	31.6			30-130		%Rec	1	6/21/2016 1:37 PM
Surr: Terphenyl-d14	88.4			50-134		%Rec	1	6/21/2016 1:37 PM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.036	Q	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
2-Methylnaphthalene	0.062	Q	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Acenaphthene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Acenaphthylene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Anthracene	0.023	UQ	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Benz(a)anthracene	0.023	UQ	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Benzo(a)pyrene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Benzo(b)fluoranthene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Benzo(g,h,i)perylene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Benzo(k)fluoranthene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Chrysene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Dibenzo(a,h)anthracene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Fluoranthene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Fluorene	0.023	UQ	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Indeno(1,2,3-cd)pyrene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Naphthalene	0.055	Q	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Phenanthrene	0.023	UQ	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Pyrene	0.023	UQ	0.023	0.023	0.023	µg/L	1	6/23/2016 11:30 PM
Surr: 2-Fluorobiphenyl	79.5			53-106		%Rec	1	6/23/2016 11:30 PM
Surr: Nitrobenzene-d5	94.1			55-111		%Rec	1	6/23/2016 11:30 PM
Surr: Terphenyl-d14	102			58-132		%Rec	1	6/23/2016 11:30 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/21/2016 12:20 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/21/2016 12:20 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/21/2016 12:20 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/21/2016 12:20 PM
Acetone	3.3	J	0.56	0.60	10	µg/L	1	6/21/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 2:50:00 PM
Project:	Camp Hero		
Lab ID:	1606422-009	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB20-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/21/2016 12:20 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/21/2016 12:20 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/21/2016 12:20 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/21/2016 12:20 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/21/2016 12:20 PM
Surr: 4-Bromofluorobenzene	89.2			85-114		%Rec	1	6/21/2016 12:20 PM
Surr: Dibromofluoromethane	84.4			80-119		%Rec	1	6/21/2016 12:20 PM
Surr: Toluene-d8	93.1			89-112		%Rec	1	6/21/2016 12:20 PM

RTI Laboratories - DATES REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606422-001A	TB-GW-061016-01	6/10/2016 10:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/21/2016 10:10 AM	6/21/2016 10:10 AM
1606422-002A	STB-SB01-GW	6/10/2016 2:50 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/21/2016 10:36 AM	6/21/2016 10:36 AM
1606422-002B	STB-SB01-GW	6/10/2016 2:50 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/15/2016 2:57 PM	6/16/2016 8:12 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/23/2016 8:11 PM
1606422-003A	STB-SB03-GW	6/10/2016 4:20 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/21/2016 11:02 AM	6/21/2016 11:02 AM
1606422-003B	STB-SB03-GW	6/10/2016 4:20 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/15/2016 2:57 PM	6/17/2016 2:23 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/15/2016 2:57 PM	6/20/2016 7:09 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/23/2016 9:35 PM
1606422-004A	F100C-SB01-GW	6/12/2016 9:30 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 8:11 AM	7/7/2016 5:12 PM
1606422-005A	F100C-SB02-GW	6/12/2016 9:15 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 8:11 AM	7/7/2016 5:13 PM
1606422-006A	2010-SB02-GW	6/12/2016 10:00 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 8:11 AM	7/7/2016 5:25 PM
1606422-007A	TB-GW-061216-01	6/12/2016 8:10 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/21/2016 11:28 AM	6/21/2016 11:28 AM
1606422-008A	WDS-SB21-GW	6/12/2016 11:30 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/21/2016 11:54 AM	6/21/2016 11:54 AM
1606422-008B	WDS-SB21-GW	6/12/2016 11:30 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/15/2016 2:57 PM	6/16/2016 9:26 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/15/2016 2:57 PM	6/20/2016 6:20 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/23/2016 10:04 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 5:26 PM
1606422-008C	WDS-SB21-GW	6/12/2016 11:30 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/28/2016 8:53 PM
1606422-008D	WDS-SB21-GW	6/12/2016 11:30 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/29/2016 8:40 AM	7/27/2016 2:22 PM

RTI Laboratories - DATES REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606422-008D	WDS-SB21-GW	6/12/2016 11:30 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/29/2016 8:40 AM	8/2/2016 11:53 AM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 9:44 AM	6/16/2016 11:44 AM
1606422-009A	WDS-SB20-GW	6/12/2016 2:50 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/21/2016 12:20 PM	6/21/2016 12:20 PM
1606422-009B	WDS-SB20-GW	6/12/2016 2:50 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/23/2016 11:30 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 1:37 PM
1606422-009C	WDS-SB20-GW	6/12/2016 2:50 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/21/2016 6:09 AM	6/25/2016 12:26 AM
1606422-009D	WDS-SB20-GW	6/12/2016 2:50 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 1:45 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 4:04 PM
				SW_6020A-Metals, ICP/MS		6/16/2016 9:22 AM	7/25/2016 5:43 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		6/15/2016 10:43 AM	6/16/2016 11:27 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40161**

Sample ID:	MB-40161	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	PBW	Batch ID:	40161	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682280	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	2.5	2.5									UG	
Silver	1.5	1.5									UG	

Sample ID:	LCS-40161	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	LCSW	Batch ID:	40161	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682281	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	420	2.5	400.0	0	105	85	117				G	
Silver	410	1.5	400.0	0	102	85	116				G	

Sample ID:	1606422-008DMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	WDS-SB21-GWMS1	Batch ID:	40161	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682283	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	420	2.5	400.0	1.300	106	85	117				G	
Silver	410	1.5	400.0	0.6050	103	85	116				G	

Sample ID:	1606422-008DMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	WDS-SB21-GWSD1	Batch ID:	40161	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682284	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	470	2.5	400.0	1.300	117	85	117	424.8	9.65	20	G	
Silver	450	1.5	400.0	0.6050	112	85	116	411.5	8.55	20	G	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40163**

Sample ID:	MB-40163	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	PBW	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682208	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	0.87	2.5									JG	
Silver	1.5	1.5									U	

Sample ID:	LCS-40163	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	LCSW	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682209	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	440	2.5	400.0	0	109	85	117				G	
Silver	430	1.5	400.0	0	108	85	116					

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	ZZZZZZ	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682211	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	410	2.5	400.0	1.030	103	85	117				G	
Silver	400	1.5	400.0	0.3000	98.9	85	116					

Sample ID:	1606387-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86695	
Client ID:	ZZZZZZ	Batch ID:	40163	TestNo:	SW6020A	SW3020A		Analysis Date:	6/16/2016	SeqNo:	1682213	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Antimony	440	2.5	400.0	1.030	109	85	117	413.2	5.29	20	G	
Silver	410	1.5	400.0	0.3000	102	85	116	396.1	3.28	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID:	MB-40170	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	PBW	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682889

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									UY
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									UY
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	MB-40170	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	PBW	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682889

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	5.0	5.0									UZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	24		25.00		97.1	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		62.3	44	119				
Surr: 2-Fluorophenol	9.6		25.00		38.5	19	119				
Surr: Nitrobenzene-d5	16		25.00		64.8	44	120				
Surr: Phenol-d5	6.8		25.00		27.1	33	122				Q
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	LCS-40170	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	LCSW	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682890

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	5.0	20.00	0	53.4	29	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	LCS-40170	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	LCSW	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682890

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	11	5.0	20.00	0	53.8	32	111				
1,3-Dichlorobenzene	9.2	5.0	20.00	0	46.1	28	110				
1,4-Dichlorobenzene	9.7	5.0	20.00	0	48.3	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	96.2	53	123				
2,4,6-Trichlorophenol	20	4.0	20.00	0	99.2	50	125				
2,4-Dichlorophenol	19	5.0	20.00	0	93.6	47	121				
2,4-Dimethyl phenol	16	5.0	20.00	0	78.5	31	124				
2,4-Dinitrophenol	62	25	50.00	0	125	23	143				JY
2,4-Dinitrotoluene	21	5.0	20.00	0	105	57	128				
2,6-Dinitrotoluene	19	5.0	20.00	0	94.6	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.0	40	116				
2-Chlorophenol	15	5.0	20.00	0	74.4	38	117				
2-Methylphenol (o-Cresol)	15	5.0	20.00	0	73.0	30	117				
2-Nitroaniline	19	5.0	20.00	0	96.1	55	127				
2-Nitrophenol	19	5.0	20.00	0	95.2	47	123				Y
3,3´-Dichlorobenzidine	20	20	20.00	0	99.2	27	129				J
3-Nitroaniline	19	10	20.00	0	97.0	41	128				
3/4-Methylphenol [m/p-Cresol]	26	10	40.00	0	65.8	25	120				
4,6-Dinitro-2-methylphenol	26	10	20.00	0	129	44	137				Y
4-Bromophenyl phenyl ether	15	5.0	20.00	0	76.8	55	124				
4-Chloro-3-methylphenol	20	5.0	20.00	0	102	52	119				
4-Chloroaniline [p-Chloroaniline]	18	10	20.00	0	89.0	33	117				
4-Chlorophenyl phenyl ether	17	5.0	20.00	0	85.1	53	121				
4-Nitroaniline	18	10	20.00	0	90.9	50	130				
4-Nitrophenol	25	25	50.00	0	50.0	50	130				
Benzoic acid	24	25	40.00	0	61.2	50	130				JZ
Benzyl alcohol	14	25	20.00	0	69.4	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	75.2	48	120				
Bis(2-chloroethyl) ether	13	5.0	20.00	0	67.2	43	118				
Bis(2-chloroisopropyl)ether	13	5.0	20.00	0	66.9	37	130				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	LCS-40170	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	LCSW	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682890

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	20	5.0	20.00	0	102	55	135				
Butyl benzyl phthalate	20	5.0	20.00	0	101	53	134				
Carbazole	18	5.0	20.00	0	90.4	60	122				
Di-n-butyl phthalate	18	5.0	20.00	0	90.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	100	51	140				
Dibenzofuran	16	4.0	20.00	0	79.2	53	118				
Diethyl phthalate	19	5.0	20.00	0	94.3	56	125				
Dimethyl phthalate	18	5.0	20.00	0	89.3	45	127				
Hexachlorobenzene	14	5.0	20.00	0	70.9	53	125				
Hexachlorobutadiene	7.8	5.0	20.00	0	39.2	22	124				
Hexachloroethane	7.4	5.0	20.00	0	36.9	21	115				
Isophorone	15	5.0	20.00	0	74.8	42	124				
N-Nitroso-di-n-propylamine	15	5.0	20.00	0	73.2	50	130				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	50	130				Q
N-Nitrosodiphenylamine	16	5.0	20.00	0	80.2	51	123				
Nitrobenzene	14	3.0	20.00	0	72.3	45	121				
Pentachlorophenol	23	5.0	20.00	0	116	35	138				
Phenol	7.8	5.0	20.00	0	38.9	34	121				
Surr: 2,4,6-Tribromophenol	28		25.00		111	43	140				
Surr: 2-Fluorobiphenyl	20		25.00		78.5	44	119				
Surr: 2-Fluorophenol	13		25.00		52.0	19	119				
Surr: Nitrobenzene-d5	21		25.00		82.8	44	120				
Surr: Phenol-d5	9.4		25.00		37.7	33	122				
Surr: Terphenyl-d14	26		25.00		104	50	134				

Sample ID:	1606422-002BMSD	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	STB-SB01-GWSD1	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682896

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.2	4.7	18.69	0	33.1	29	116	4.327	35.4	25	R
1,2-Dichlorobenzene	5.8	4.7	18.69	0	31.2	32	111	4.206	32.2	25	RQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID:	1606422-002BMSD	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	STB-SB01-GWSD1	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682896

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	5.3	4.7	18.69	0	28.2	28	110	3.850	31.0	25	R
1,4-Dichlorobenzene	5.3	4.7	18.69	0	28.4	29	112	3.897	30.5	25	RQ
2,4,5-Trichlorophenol	15	4.7	18.69	0	82.9	53	123	12.43	22.0	25	
2,4,6-Trichlorophenol	16	3.7	18.69	0	83.3	50	125	10.14	42.2	25	R
2,4-Dichlorophenol	13	4.7	18.69	0	72.0	47	121	8.533	44.8	25	R
2,4-Dimethyl phenol	12	4.7	18.69	0	64.4	31	124	7.561	45.8	25	R
2,4-Dinitrophenol	59	23	46.73	0	127	23	143	56.70	4.73	25	JY
2,4-Dinitrotoluene	17	4.7	18.69	0	93.4	57	128	17.07	2.22	25	
2,6-Dinitrotoluene	15	4.7	18.69	0	81.5	57	124	12.35	20.9	25	
2-Chloronaphthalene	8.7	4.7	18.69	0	46.4	40	116	5.748	40.5	25	R
2-Chlorophenol	9.3	4.7	18.69	0	49.8	38	117	6.355	37.7	25	R
2-Methylphenol (o-Cresol)	10	4.7	18.69	0	53.6	30	117	6.514	42.5	25	R
2-Nitroaniline	15	4.7	18.69	0	81.8	55	127	12.67	18.7	25	
2-Nitrophenol	12	4.7	18.69	0	65.8	47	123	8.458	37.1	25	RY
3,3´-Dichlorobenzidine	17	19	18.69	0	93.4	27	129	17.99	3.01	25	J
3-Nitroaniline	16	9.3	18.69	0	87.5	41	128	15.99	2.20	25	
3/4-Methylphenol [m/p-Cresol]	19	9.3	37.38	0	49.8	25	120	12.13	42.2	25	R
4,6-Dinitro-2-methylphenol	22	9.3	18.69	0	119	44	137	22.98	3.64	25	Y
4-Bromophenyl phenyl ether	11	4.7	18.69	0	59.8	55	124	9.570	15.6	25	
4-Chloro-3-methylphenol	17	4.7	18.69	0	88.6	52	119	11.94	32.4	25	R
4-Chloroaniline [p-Chloroaniline]	15	9.3	18.69	0	79.4	33	117	11.23	27.6	25	R
4-Chlorophenyl phenyl ether	12	4.7	18.69	0	66.0	53	121	9.000	31.2	25	R
4-Nitroaniline	17	9.3	18.69	0	88.4	50	130	16.55	0.226	25	
4-Nitrophenol	21	23	46.73	0	45.8	50	130	21.03	1.67	25	JQ
Benzoic acid	33	23	37.38	0	88.8	50	130	26.99	20.6	25	Z
Benzyl alcohol	9.7	23	18.69	0	52.0	31	112	6.925	33.6	25	JR
Bis(2-chloroethoxy) methane	10	4.7	18.69	0	55.3	48	120	6.907	39.8	25	R
Bis(2-chloroethyl) ether	8.1	4.7	18.69	0	43.6	43	118	5.785	33.9	25	R
Bis(2-chloroisopropyl)ether	8.1	4.7	18.69	0	43.2	37	130	5.645	35.5	25	RZ
Bis(2-ethylhexyl) phthalate	17	4.7	18.69	0	91.4	55	135	16.68	2.33	25	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID: **1606422-002BMSD** Samp Type: **MSD** Test Code: **SW_8270A-LL** Units: **µg/L** Prep Date: **6/15/2016** RunNo: **86748**
Client ID: **STB-SB01-GWSD1** Batch ID: **40170** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/16/2016** SeqNo: **1682896**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	17	4.7	18.69	0	90.4	53	134	16.56	2.01	25	
Carbazole	15	4.7	18.69	0	82.2	60	122	15.40	0.243	25	
Di-n-butyl phthalate	15	4.7	18.69	0	79.8	59	127	14.72	1.32	25	
Di-n-octyl phthalate	17	4.7	18.69	0	91.4	51	140	16.38	4.24	25	
Dibenzofuran	11	3.7	18.69	0	58.8	53	118	7.897	32.7	25	R
Diethyl phthalate	16	4.7	18.69	0	86.2	56	125	14.91	7.72	25	
Dimethyl phthalate	15	4.7	18.69	0	81.5	45	127	12.21	22.0	25	
Hexachlorobenzene	11	4.7	18.69	0	58.9	53	125	9.757	12.1	25	
Hexachlorobutadiene	5.0	4.7	18.69	0	26.7	22	124	3.570	33.0	25	R
Hexachloroethane	4.3	4.7	18.69	0	22.8	21	115	3.121	31.1	25	JR
Isophorone	11	4.7	18.69	0	60.0	42	124	7.009	46.2	25	R
N-Nitroso-di-n-propylamine	10	4.7	18.69	0	55.4	50	130	6.963	39.1	25	R
N-Nitrosodimethylamine	5.2	4.7	18.69	0	27.7	50	130	3.888	28.5	25	RQ
N-Nitrosodiphenylamine	13	4.7	18.69	0	68.5	51	123	11.72	8.84	25	
Nitrobenzene	9.3	2.8	18.69	0	49.8	45	121	6.542	34.8	25	R
Pentachlorophenol	20	4.7	18.69	0	107	35	138	19.42	3.27	25	
Phenol	4.5	4.7	18.69	0	24.0	34	121	2.336	62.8	25	JRQ
Surr: 2,4,6-Tribromophenol	24		23.36		103	43	140		0	25	
Surr: 2-Fluorobiphenyl	15		23.36		63.7	44	119		0	25	
Surr: 2-Fluorophenol	7.9		23.36		33.9	19	119		0	25	
Surr: Nitrobenzene-d5	14		23.36		58.8	44	120		0	25	
Surr: Phenol-d5	6.0		23.36		25.5	33	122		0	25	Q
Surr: Terphenyl-d14	23		23.36		98.6	50	134		0	25	

Sample ID: **1606422-008BMSD** Samp Type: **MSD** Test Code: **SW_8270A-LL** Units: **µg/L** Prep Date: **6/15/2016** RunNo: **86748**
Client ID: **WDS-SB21-GWSD1** Batch ID: **40170** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/16/2016** SeqNo: **1682899**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.0	4.8	19.23	0	47.1	29	116	7.951	12.9	25	
1,2-Dichlorobenzene	8.8	4.8	19.23	0	45.6	32	111	7.544	15.1	25	
1,3-Dichlorobenzene	8.0	4.8	19.23	0	41.4	28	110	6.777	16.1	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	WDS-SB21-GWSD1	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682899

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	8.2	4.8	19.23	0	42.5	29	112	6.670	20.3	25	
2,4,5-Trichlorophenol	18	4.8	19.23	0	91.7	53	123	16.17	8.64	25	
2,4,6-Trichlorophenol	18	3.8	19.23	0	91.8	50	125	16.45	7.08	25	
2,4-Dichlorophenol	16	4.8	19.23	0	84.6	47	121	14.20	13.6	25	
2,4-Dimethyl phenol	14	4.8	19.23	0	74.0	31	124	12.62	11.9	25	
2,4-Dinitrophenol	65	24	48.08	0	136	23	143	56.35	14.6	25	JY
2,4-Dinitrotoluene	20	4.8	19.23	0	102	57	128	18.40	6.50	25	
2,6-Dinitrotoluene	17	4.8	19.23	0	87.4	57	124	15.63	7.20	25	
2-Chloronaphthalene	10	4.8	19.23	0	54.2	40	116	9.583	8.31	25	
2-Chlorophenol	12	4.8	19.23	0	64.0	38	117	10.36	17.2	25	
2-Methylphenol (o-Cresol)	12	4.8	19.23	0	64.4	30	117	10.98	12.0	25	
2-Nitroaniline	17	4.8	19.23	0	89.6	55	127	15.97	7.59	25	
2-Nitrophenol	16	4.8	19.23	0	83.2	47	123	13.42	17.5	25	Y
3,3´-Dichlorobenzidine	19	19	19.23	0	96.2	27	129	17.29	6.75	25	J
3-Nitroaniline	17	9.6	19.23	0	87.2	41	128	16.43	2.06	25	
3/4-Methylphenol [m/p-Cresol]	22	9.6	38.46	0	57.4	25	120	20.35	8.14	25	
4,6-Dinitro-2-methylphenol	25	9.6	19.23	0	128	44	137	23.24	5.50	25	Y
4-Bromophenyl phenyl ether	11	4.8	19.23	0	57.0	55	124	10.63	3.06	25	
4-Chloro-3-methylphenol	18	4.8	19.23	0	93.9	52	119	16.60	8.40	25	
4-Chloroaniline [p-Chloroaniline]	16	9.6	19.23	0	85.8	33	117	15.73	4.79	25	
4-Chlorophenyl phenyl ether	12	4.8	19.23	0	64.8	53	121	12.09	3.05	25	
4-Nitroaniline	17	9.6	19.23	0	88.4	50	130	16.95	0.286	25	
4-Nitrophenol	23	24	48.08	0	46.9	50	130	20.71	8.50	25	JQ
Benzoic acid	36	24	38.46	0	93.5	50	130	28.77	22.2	25	Z
Benzyl alcohol	12	24	19.23	0	64.0	31	112	10.97	11.4	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.23	0	68.2	48	120	11.17	16.0	25	
Bis(2-chloroethyl) ether	11	4.8	19.23	0	55.5	43	118	9.058	16.3	25	
Bis(2-chloroisopropyl)ether	11	4.8	19.23	0	55.1	37	130	8.990	16.4	25	Z
Bis(2-ethylhexyl) phthalate	15	4.8	19.23	0	78.2	55	135	14.85	1.17	25	
Butyl benzyl phthalate	15	4.8	19.23	0	78.4	53	134	15.10	0.197	25	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID: **1606422-008BMSD** Samp Type: **MSD** Test Code: **SW_8270A-LL** Units: **µg/L** Prep Date: **6/15/2016** RunNo: **86748**
Client ID: **WDS-SB21-GWSD1** Batch ID: **40170** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/16/2016** SeqNo: **1682899**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	17	4.8	19.23	0	86.5	60	122	16.12	3.16	25	
Di-n-butyl phthalate	14	4.8	19.23	0	74.3	59	127	14.29	0.0196	25	
Di-n-octyl phthalate	15	4.8	19.23	0	76.1	51	140	14.93	2.08	25	
Dibenzofuran	12	3.8	19.23	0	64.2	53	118	11.95	3.17	25	
Diethyl phthalate	17	4.8	19.23	0	90.8	56	125	16.39	6.29	25	
Dimethyl phthalate	16	4.8	19.23	0	84.6	45	127	15.30	6.07	25	
Hexachlorobenzene	9.7	4.8	19.23	0	50.5	53	125	9.544	1.74	25	Q
Hexachlorobutadiene	6.7	4.8	19.23	0	35.0	22	124	5.913	12.9	25	
Hexachloroethane	6.5	4.8	19.23	0	33.8	21	115	5.485	16.9	25	
Isophorone	13	4.8	19.23	0	68.8	42	124	11.50	14.0	25	
N-Nitroso-di-n-propylamine	13	4.8	19.23	0	66.8	50	130	11.21	13.6	25	
N-Nitrosodimethylamine	6.6	4.8	19.23	0	34.2	50	130	5.534	17.1	25	Q
N-Nitrosodiphenylamine	14	4.8	19.23	0	74.0	51	123	13.36	6.25	25	
Nitrobenzene	12	2.9	19.23	0	64.1	45	121	10.01	20.7	25	
Pentachlorophenol	25	4.8	19.23	0	132	35	138	19.35	26.7	25	R
Phenol	4.8	4.8	19.23	0	25.1	34	121	4.456	7.98	25	Q
Surr: 2,4,6-Tribromophenol	26		24.04		110	43	140		0	25	
Surr: 2-Fluorobiphenyl	18		24.04		75.6	44	119		0	25	
Surr: 2-Fluorophenol	10		24.04		42.4	19	119		0	25	
Surr: Nitrobenzene-d5	18		24.04		73.2	44	120		0	25	
Surr: Phenol-d5	7.5		24.04		31.4	33	122		0	25	Q
Surr: Terphenyl-d14	25		24.04		102	50	134		0	25	

Sample ID: **1606422-002BMS** Samp Type: **MS** Test Code: **SW_8270A-LL** Units: **µg/L** Prep Date: **6/15/2016** RunNo: **86748**
Client ID: **STB-SB01-GWMS1** Batch ID: **40170** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/16/2016** SeqNo: **1682911**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	4.3	4.7	18.69	0	23.2	29	116				JQ
1,2-Dichlorobenzene	4.2	4.7	18.69	0	22.5	32	111				JQ
1,3-Dichlorobenzene	3.9	4.7	18.69	0	20.6	28	110				JQ
1,4-Dichlorobenzene	3.9	4.7	18.69	0	20.9	29	112				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID:	1606422-002BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	STB-SB01-GWMS1	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682911

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	12	4.7	18.69	0	66.5	53	123				
2,4,6-Trichlorophenol	10	3.7	18.69	0	54.2	50	125				
2,4-Dichlorophenol	8.5	4.7	18.69	0	45.6	47	121				Q
2,4-Dimethyl phenol	7.6	4.7	18.69	0	40.5	31	124				
2,4-Dinitrophenol	57	23	46.73	0	121	23	143				JY
2,4-Dinitrotoluene	17	4.7	18.69	0	91.4	57	128				
2,6-Dinitrotoluene	12	4.7	18.69	0	66.0	57	124				
2-Chloronaphthalene	5.7	4.7	18.69	0	30.8	40	116				Q
2-Chlorophenol	6.4	4.7	18.69	0	34.0	38	117				Q
2-Methylphenol (o-Cresol)	6.5	4.7	18.69	0	34.9	30	117				
2-Nitroaniline	13	4.7	18.69	0	67.8	55	127				
2-Nitrophenol	8.5	4.7	18.69	0	45.3	47	123				QY
3,3´-Dichlorobenzidine	18	19	18.69	0	96.2	27	129				J
3-Nitroaniline	16	9.3	18.69	0	85.6	41	128				
3/4-Methylphenol [m/p-Cresol]	12	9.3	37.38	0	32.4	25	120				
4,6-Dinitro-2-methylphenol	23	9.3	18.69	0	123	44	137				Y
4-Bromophenyl phenyl ether	9.6	4.7	18.69	0	51.2	55	124				Q
4-Chloro-3-methylphenol	12	4.7	18.69	0	63.9	52	119				
4-Chloroaniline [p-Chloroaniline]	11	9.3	18.69	0	60.1	33	117				
4-Chlorophenyl phenyl ether	9.0	4.7	18.69	0	48.2	53	121				Q
4-Nitroaniline	17	9.3	18.69	0	88.6	50	130				
4-Nitrophenol	21	23	46.73	0	45.0	50	130				JQ
Benzoic acid	27	23	37.38	0	72.2	50	130				Z
Benzyl alcohol	6.9	23	18.69	0	37.0	31	112				J
Bis(2-chloroethoxy) methane	6.9	4.7	18.69	0	37.0	48	120				Q
Bis(2-chloroethyl) ether	5.8	4.7	18.69	0	31.0	43	118				Q
Bis(2-chloroisopropyl)ether	5.6	4.7	18.69	0	30.2	37	130				QZ
Bis(2-ethylhexyl) phthalate	17	4.7	18.69	0	89.2	55	135				
Butyl benzyl phthalate	17	4.7	18.69	0	88.6	53	134				
Carbazole	15	4.7	18.69	0	82.4	60	122				

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID: **1606422-002BMS** Samp Type: **MS** Test Code: **SW_8270A-LL** Units: **µg/L** Prep Date: **6/15/2016** RunNo: **86748**

Client ID: **STB-SB01-GWMS1** Batch ID: **40170** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/16/2016** SeqNo: **1682911**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	15	4.7	18.69	0	78.8	59	127				
Di-n-octyl phthalate	16	4.7	18.69	0	87.6	51	140				
Dibenzofuran	7.9	3.7	18.69	0	42.3	53	118				Q
Diethyl phthalate	15	4.7	18.69	0	79.8	56	125				
Dimethyl phthalate	12	4.7	18.69	0	65.3	45	127				
Hexachlorobenzene	9.8	4.7	18.69	0	52.2	53	125				Q
Hexachlorobutadiene	3.6	4.7	18.69	0	19.1	22	124				JQ
Hexachloroethane	3.1	4.7	18.69	0	16.7	21	115				JQ
Isophorone	7.0	4.7	18.69	0	37.5	42	124				Q
N-Nitroso-di-n-propylamine	7.0	4.7	18.69	0	37.2	50	130				Q
N-Nitrosodimethylamine	3.9	4.7	18.69	0	20.8	50	130				JQ
N-Nitrosodiphenylamine	12	4.7	18.69	0	62.7	51	123				
Nitrobenzene	6.5	2.8	18.69	0	35.0	45	121				Q
Pentachlorophenol	19	4.7	18.69	0	104	35	138				
Phenol	2.3	4.7	18.69	0	12.5	34	121				JQ
Surr: 2,4,6-Tribromophenol	23		23.36		98.3	43	140				
Surr: 2-Fluorobiphenyl	10		23.36		43.2	44	119				Q
Surr: 2-Fluorophenol	5.4		23.36		23.2	19	119				
Surr: Nitrobenzene-d5	9.7		23.36		41.3	44	120				Q
Surr: Phenol-d5	4.0		23.36		17.0	33	122				JQ
Surr: Terphenyl-d14	23		23.36		99.6	50	134				

Sample ID: **1606422-008BMS** Samp Type: **MS** Test Code: **SW_8270A-LL** Units: **µg/L** Prep Date: **6/15/2016** RunNo: **86748**

Client ID: **WDS-SB21-GWMS1** Batch ID: **40170** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/16/2016** SeqNo: **1682912**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.0	4.9	19.42	0	41.0	29	116				
1,2-Dichlorobenzene	7.5	4.9	19.42	0	38.8	32	111				
1,3-Dichlorobenzene	6.8	4.9	19.42	0	34.9	28	110				
1,4-Dichlorobenzene	6.7	4.9	19.42	0	34.4	29	112				
2,4,5-Trichlorophenol	16	4.9	19.42	0	83.2	53	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40170**

Sample ID:	**1606422-008BMS**	Samp Type:	**MS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/15/2016**	RunNo:	**86748**
Client ID:	**WDS-SB21-GWMS1**	Batch ID:	**40170**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/16/2016**	SeqNo:	**1682912**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	16	3.9	19.42	0	84.7	50	125				
2,4-Dichlorophenol	14	4.9	19.42	0	73.2	47	121				
2,4-Dimethyl phenol	13	4.9	19.42	0	65.0	31	124				
2,4-Dinitrophenol	56	24	48.54	0	116	23	143				JY
2,4-Dinitrotoluene	18	4.9	19.42	0	94.8	57	128				
2,6-Dinitrotoluene	16	4.9	19.42	0	80.5	57	124				
2-Chloronaphthalene	9.6	4.9	19.42	0	49.4	40	116				
2-Chlorophenol	10	4.9	19.42	0	53.4	38	117				
2-Methylphenol (o-Cresol)	11	4.9	19.42	0	56.6	30	117				
2-Nitroaniline	16	4.9	19.42	0	82.2	55	127				
2-Nitrophenol	13	4.9	19.42	0	69.1	47	123				Y
3,3´-Dichlorobenzidine	17	19	19.42	0	89.1	27	129				J
3-Nitroaniline	16	9.7	19.42	0	84.6	41	128				
3/4-Methylphenol [m/p-Cresol]	20	9.7	38.83	0	52.4	25	120				
4,6-Dinitro-2-methylphenol	23	9.7	19.42	0	120	44	137				Y
4-Bromophenyl phenyl ether	11	4.9	19.42	0	54.8	55	124				Q
4-Chloro-3-methylphenol	17	4.9	19.42	0	85.5	52	119				
4-Chloroaniline [p-Chloroaniline]	16	9.7	19.42	0	81.0	33	117				
4-Chlorophenyl phenyl ether	12	4.9	19.42	0	62.3	53	121				
4-Nitroaniline	17	9.7	19.42	0	87.3	50	130				
4-Nitrophenol	21	24	48.54	0	42.7	50	130				JQ
Benzoic acid	29	24	38.83	0	74.1	50	130				Z
Benzyl alcohol	11	24	19.42	0	56.5	31	112				J
Bis(2-chloroethoxy) methane	11	4.9	19.42	0	57.6	48	120				
Bis(2-chloroethyl) ether	9.1	4.9	19.42	0	46.7	43	118				
Bis(2-chloroisopropyl)ether	9.0	4.9	19.42	0	46.3	37	130				Z
Bis(2-ethylhexyl) phthalate	15	4.9	19.42	0	76.5	55	135				
Butyl benzyl phthalate	15	4.9	19.42	0	77.8	53	134				
Carbazole	16	4.9	19.42	0	83.0	60	122				
Di-n-butyl phthalate	14	4.9	19.42	0	73.6	59	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40170

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/15/2016	RunNo:	86748
Client ID:	WDS-SB21-GWMS1	Batch ID:	40170	TestNo:	SW8270C	SW3510C		Analysis Date:	6/16/2016	SeqNo:	1682912

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	15	4.9	19.42	0	76.9	51	140				
Dibenzofuran	12	3.9	19.42	0	61.6	53	118				
Diethyl phthalate	16	4.9	19.42	0	84.4	56	125				
Dimethyl phthalate	15	4.9	19.42	0	78.8	45	127				
Hexachlorobenzene	9.5	4.9	19.42	0	49.2	53	125				Q
Hexachlorobutadiene	5.9	4.9	19.42	0	30.4	22	124				
Hexachloroethane	5.5	4.9	19.42	0	28.3	21	115				
Isophorone	12	4.9	19.42	0	59.2	42	124				
N-Nitroso-di-n-propylamine	11	4.9	19.42	0	57.8	50	130				
N-Nitrosodimethylamine	5.5	4.9	19.42	0	28.5	50	130				Q
N-Nitrosodiphenylamine	13	4.9	19.42	0	68.8	51	123				
Nitrobenzene	10	2.9	19.42	0	51.6	45	121				
Pentachlorophenol	19	4.9	19.42	0	99.7	35	138				
Phenol	4.5	4.9	19.42	0	23.0	34	121				JQ
Surr: 2,4,6-Tribromophenol	25		24.27		102	43	140				
Surr: 2-Fluorobiphenyl	16		24.27		67.8	44	119				
Surr: 2-Fluorophenol	8.8		24.27		36.4	19	119				
Surr: Nitrobenzene-d5	15		24.27		61.5	44	120				
Surr: Phenol-d5	6.8		24.27		28.2	33	122				Q
Surr: Terphenyl-d14	24		24.27		99.9	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40173**

Sample ID:	LCS-40173	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87179
Client ID:	LCSW	Batch ID:	40173	TestNo:	SW6020A	SW3020A		Analysis Date:	7/7/2016	SeqNo:	1692364

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	200	1.0	200.0	0	99.8	88	115				

Sample ID:	MB-40173	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87179
Client ID:	PBW	Batch ID:	40173	TestNo:	SW6020A	SW3020A		Analysis Date:	7/7/2016	SeqNo:	1692365

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	1.0	1.0									U

Sample ID:	1606381-001AMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87179
Client ID:	ZZZZZZ	Batch ID:	40173	TestNo:	SW6020A	SW3020A		Analysis Date:	7/7/2016	SeqNo:	1692367

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	1,500	1.0	200.0	1,206	146	88	115				Q

Sample ID:	1606381-001AMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87179
Client ID:	ZZZZZZ	Batch ID:	40173	TestNo:	SW6020A	SW3020A		Analysis Date:	7/7/2016	SeqNo:	1692368

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	1,500	1.0	200.0	1,206	147	88	115	1,498	0.195	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	MB-40174	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	PBW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1700956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	9.8	50									JG
Arsenic	1.5	1.5									U
Barium	25	25									U
Cadmium	1.0	1.0									U
Calcium	1,000	1,000									U
Chromium	10	10									UG
Cobalt	5.0	5.0									U
Copper	5.0	5.0									U
Iron	200	200									U
Lead	1.0	1.0									U
Magnesium	500	500									U
Manganese	5.0	5.0									U
Nickel	0.23	10									J
Potassium	500	500									U
Selenium	5.0	5.0									U
Sodium	500	500									U
Thallium	2.0	2.0									U
Vanadium	4.0	4.0									U
Zinc	50	50									U

Sample ID:	LCS-40174	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	LCSW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701009

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	200	50	200.0	0	102	84	117				G
Arsenic	190	1.5	200.0	0	93.7	84	116				
Barium	180	25	200.0	0	90.9	86	114				
Cadmium	180	1.0	200.0	0	90.0	87	115				
Calcium	2,100	1,000	2,000	0	103	87	118				
Chromium	180	10	200.0	0	91.1	85	116				G
Cobalt	180	5.0	200.0	0	90.9	86	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	LCS-40174	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	LCSW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701009

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Copper	220	5.0	200.0	0	108	85	118				
Iron	1,800	200	2,000	0	89.7	87	118				
Lead	190	1.0	200.0	0	92.9	88	115				
Magnesium	1,900	500	2,000	0	96.9	83	118				
Manganese	180	5.0	200.0	0	91.7	87	115				
Nickel	200	10	200.0	0	102	85	117				
Potassium	2,000	500	2,000	0	99.4	87	115				
Selenium	180	5.0	200.0	0	92.0	80	120				
Sodium	2,300	500	2,000	0	115	85	117				
Thallium	180	2.0	200.0	0	90.6	82	116				
Vanadium	180	4.0	200.0	0	89.7	86	115				
Zinc	2,300	50	2,000	0	116	83	119				

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	1,600	50	200.0	1,129	254	84	117				QG
Arsenic	220	1.5	200.0	8.730	103	84	116				
Barium	240	25	200.0	38.45	102	86	114				
Cadmium	200	1.0	200.0	0	101	87	115				
Calcium	51,000	1,000	2,000	47,600	179	87	118				Q
Chromium	200	10	200.0	2.025	98.3	85	116				G
Cobalt	200	5.0	200.0	1.815	99.9	86	115				
Copper	200	5.0	200.0	1.535	102	85	118				
Iron	40,000	200	2,000	36,990	174	87	118				Q
Lead	200	1.0	200.0	3.795	99.3	88	115				
Magnesium	9,100	500	2,000	6,805	116	83	118				
Manganese	1,700	5.0	200.0	1,402	144	87	115				Q
Nickel	210	10	200.0	2.965	101	85	117				
Potassium	11,000	500	2,000	8,164	117	87	115				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40174

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Selenium	210	5.0	200.0	0	104	80	120				
Sodium	13,000	500	2,000	10,600	129	85	117				Q
Thallium	200	2.0	200.0	0	99.3	82	116				
Vanadium	200	4.0	200.0	3.590	98.1	86	115				
Zinc	200	50	200.0	8.840	98.0	83	119				

Sample ID:	1606387-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87545
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701012

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	1,600	50	200.0	1,129	251	84	117	1,637	0.319	20	QG
Arsenic	210	1.5	200.0	8.730	103	84	116	215.6	0.773	20	
Barium	240	25	200.0	38.45	101	86	114	243.1	0.782	20	
Cadmium	200	1.0	200.0	0	99.9	87	115	203.0	1.56	20	
Calcium	51,000	1,000	2,000	47,600	169	87	118	51,180	0.405	20	Q
Chromium	200	10	200.0	2.025	98.1	85	116	198.6	0.202	20	G
Cobalt	200	5.0	200.0	1.815	98.8	86	115	201.6	1.03	20	
Copper	200	5.0	200.0	1.535	100	85	118	204.8	1.18	20	
Iron	40,000	200	2,000	36,990	150	87	118	40,470	1.21	20	Q
Lead	210	1.0	200.0	3.795	101	88	115	202.4	1.67	20	
Magnesium	9,100	500	2,000	6,805	117	83	118	9,125	0.188	20	
Manganese	1,700	5.0	200.0	1,402	142	87	115	1,690	0.283	20	Q
Nickel	200	10	200.0	2.965	99.6	85	117	205.8	1.76	20	
Potassium	11,000	500	2,000	8,164	118	87	115	10,510	0.189	20	Q
Selenium	200	5.0	200.0	0	99.6	80	120	207.6	4.09	20	
Sodium	13,000	500	2,000	10,600	122	85	117	13,180	1.11	20	Q
Thallium	200	2.0	200.0	0	101	82	116	198.7	1.29	20	
Vanadium	200	4.0	200.0	3.590	98.2	86	115	199.9	0.0350	20	
Zinc	200	50	200.0	8.840	96.0	83	119	204.8	2.01	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40174**

Sample ID:	MB-40174	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	PBW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701379

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	1.0	1.0									U

Sample ID:	LCS-40174	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	LCSW	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701380

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	180	1.0	200.0	0	92.2	83	121				

Sample ID:	1606387-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701412

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	190	1.0	200.0	0	93.2	83	121				

Sample ID:	1606387-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87592
Client ID:	ZZZZZZ	Batch ID:	40174	TestNo:	SW6020A	SW3020A		Analysis Date:	7/25/2016	SeqNo:	1701413

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Beryllium	190	1.0	200.0	0	93.5	83	121	186.4	0.319	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40179**

Sample ID:	LCS-40179	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	LCSW	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698564

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.47	0.020	0.4000	0	117	41	115				Q
2-Methylnaphthalene	0.60	0.020	0.4000	0	150	39	114				Q
Acenaphthene	0.40	0.020	0.4000	0	101	48	114				
Acenaphthylene	0.38	0.020	0.4000	0	95.4	35	121				
Anthracene	0.49	0.020	0.4000	0	122	53	119				Q
Benz(a)anthracene	0.51	0.020	0.4000	0	128	59	120				Q
Benzo(a)pyrene	0.35	0.020	0.4000	0	87.8	53	120				
Benzo(b)fluoranthene	0.43	0.020	0.4000	0	108	53	126				
Benzo(g,h,i)perylene	0.44	0.020	0.4000	0	110	44	128				
Benzo(k)fluoranthene	0.30	0.020	0.4000	0	74.0	54	125				
Chrysene	0.36	0.020	0.4000	0	90.4	57	120				
Dibenzo(a,h)anthracene	0.45	0.020	0.4000	0	112	44	131				
Fluoranthene	0.47	0.020	0.4000	0	118	58	120				
Fluorene	0.49	0.020	0.4000	0	122	50	118				Q
Indeno(1,2,3-cd)pyrene	0.44	0.020	0.4000	0	110	48	130				
Naphthalene	0.46	0.020	0.4000	0	116	43	114				Q
Phenanthrene	0.57	0.020	0.4000	0	143	53	115				Q
Pyrene	0.50	0.020	0.4000	0	125	53	124				Q
Surr: 2-Fluorobiphenyl	0.68		0.5000		136	53	106				Q
Surr: Nitrobenzene-d5	0.47		0.5000		94.1	55	111				
Surr: Terphenyl-d14	0.61		0.5000		122	58	132				

Sample ID:	1606422-002BMS-1	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	STB-SB01-GWMS1	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.61	0.019	0.3810	0.2746	88.2	41	115				
2-Methylnaphthalene	0.91	0.019	0.3810	0.5037	106	39	114				
Acenaphthene	0.33	0.019	0.3810	0.02359	79.8	48	114				
Acenaphthylene	0.32	0.019	0.3810	0	83.2	35	121				
Anthracene	0.28	0.019	0.3810	0	73.5	53	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40179

Sample ID:	1606422-002BMS-1	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	STB-SB01-GWMS1	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.42	0.019	0.3810	0	109	59	120				
Benzo(a)pyrene	0.26	0.019	0.3810	0	69.5	53	120				
Benzo(b)fluoranthene	0.36	0.019	0.3810	0	93.9	53	126				
Benzo(g,h,i)perylene	0.38	0.019	0.3810	0	99.5	44	128				
Benzo(k)fluoranthene	0.24	0.019	0.3810	0	64.1	54	125				
Chrysene	0.33	0.019	0.3810	0	85.8	57	120				
Dibenzo(a,h)anthracene	0.37	0.019	0.3810	0	98.0	44	131				
Fluoranthene	0.36	0.019	0.3810	0	93.5	58	120				
Fluorene	0.36	0.019	0.3810	0.01962	89.5	50	118				
Indeno(1,2,3-cd)pyrene	0.38	0.019	0.3810	0	99.9	48	130				
Naphthalene	0.49	0.019	0.3810	0.1921	79.3	43	114				
Phenanthrene	0.40	0.019	0.3810	0.02591	96.9	53	115				
Pyrene	0.38	0.019	0.3810	0	99.4	53	124				
Surr: 2-Fluorobiphenyl	0.66		0.4762		138	53	106				Q
Surr: Nitrobenzene-d5	0.55		0.4762		116	55	111				Q
Surr: Terphenyl-d14	0.70		0.4762		146	58	132				Q

Sample ID:	1606422-008BMS-1	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	WDS-SB21-GWMS1	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698569

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.38	0.019	0.3883	0.05553	84.5	41	115				
2-Methylnaphthalene	0.46	0.019	0.3883	0.08661	96.6	39	114				
Acenaphthene	0.35	0.019	0.3883	0	90.8	48	114				
Acenaphthylene	0.35	0.019	0.3883	0	89.4	35	121				
Anthracene	0.35	0.019	0.3883	0	90.1	53	119				
Benz(a)anthracene	0.48	0.019	0.3883	0	123	59	120				Q
Benzo(a)pyrene	0.34	0.019	0.3883	0	86.6	53	120				
Benzo(b)fluoranthene	0.42	0.019	0.3883	0	109	53	126				
Benzo(g,h,i)perylene	0.43	0.019	0.3883	0	112	44	128				
Benzo(k)fluoranthene	0.39	0.019	0.3883	0	101	54	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40179

Sample ID:	1606422-008BMS-1	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	WDS-SB21-GWMS1	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698569

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.36	0.019	0.3883	0	91.4	57	120				
Dibenzo(a,h)anthracene	0.44	0.019	0.3883	0	113	44	131				
Fluoranthene	0.39	0.019	0.3883	0	99.6	58	120				
Fluorene	0.39	0.019	0.3883	0.02125	95.0	50	118				
Indeno(1,2,3-cd)pyrene	0.43	0.019	0.3883	0	112	48	130				
Naphthalene	0.36	0.019	0.3883	0.07954	72.5	43	114				
Phenanthrene	0.46	0.019	0.3883	0.03642	108	53	115				
Pyrene	0.42	0.019	0.3883	0	108	53	124				
Surr: 2-Fluorobiphenyl	0.41		0.4854		85.2	53	106				
Surr: Nitrobenzene-d5	0.47		0.4854		96.5	55	111				
Surr: Terphenyl-d14	0.54		0.4854		112	58	132				

Sample ID:	1606422-008BMSD-1	Samp Type:	MSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	WDS-SB21-GWSD1	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.34	0.019	0.3810	0.05553	74.7	41	115	0.3835	12.0	20	
2-Methylnaphthalene	0.40	0.019	0.3810	0.08661	81.6	39	114	0.4618	15.0	20	
Acenaphthene	0.35	0.019	0.3810	0	91.3	48	114	0.3527	1.42	20	
Acenaphthylene	0.34	0.019	0.3810	0	90.3	35	121	0.3473	0.952	20	
Anthracene	0.35	0.019	0.3810	0	91.6	53	119	0.3497	0.192	20	
Benz(a)anthracene	0.45	0.019	0.3810	0	118	59	120	0.4783	5.80	20	
Benzo(a)pyrene	0.32	0.019	0.3810	0	84.0	53	120	0.3364	5.00	20	
Benzo(b)fluoranthene	0.39	0.019	0.3810	0	103	53	126	0.4247	7.89	20	
Benzo(g,h,i)perylene	0.42	0.019	0.3810	0	110	44	128	0.4340	3.85	20	
Benzo(k)fluoranthene	0.28	0.019	0.3810	0	73.4	54	125	0.3917	33.3	20	R
Chrysene	0.34	0.019	0.3810	0	90.2	57	120	0.3551	3.30	20	
Dibenzo(a,h)anthracene	0.43	0.019	0.3810	0	112	44	131	0.4399	2.87	20	
Fluoranthene	0.38	0.019	0.3810	0	98.6	58	120	0.3869	2.91	20	
Fluorene	0.39	0.019	0.3810	0.02125	95.7	50	118	0.3902	1.08	20	
Indeno(1,2,3-cd)pyrene	0.42	0.019	0.3810	0	109	48	130	0.4333	3.92	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40179**

Sample ID:	1606422-008BMSD-1	Samp Type:	MSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	WDS-SB21-GWSD1	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.35	0.019	0.3810	0.07954	71.5	43	114	0.3611	2.58	20	
Phenanthrene	0.44	0.019	0.3810	0.03642	107	53	115	0.4567	3.06	20	
Pyrene	0.41	0.019	0.3810	0	109	53	124	0.4208	1.57	20	
Surr: 2-Fluorobiphenyl	0.40		0.4762		84.9	53	106		0	20	
Surr: Nitrobenzene-d5	0.46		0.4762		96.5	55	111		0	20	
Surr: Terphenyl-d14	0.52		0.4762		110	58	132		0	20	

Sample ID:	MB-40179	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	PBW	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1700749

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									U
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.44		0.5000		88.1	53	106				
Surr: Nitrobenzene-d5	0.51		0.5000		101	55	111				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40179**

Sample ID:	**MB-40179**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/16/2016**	RunNo:	**87471**
Client ID:	**PBW**	Batch ID:	**40179**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/24/2016**	SeqNo:	**1700749**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Terphenyl-d14	0.56		0.5000		112	58	132				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685699

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	20	20									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitrophenol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	1.0	1.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Diethyl phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685699

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	1.0	1.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	40	125				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	50	110				Q
Surr: 2-Fluorophenol	7.4		25.00		29.8	20	110				
Surr: Nitrobenzene-d5	11		25.00		45.5	40	110				
Surr: Phenol-d5	4.8		25.00		19.3	20	130				Q
Surr: Terphenyl-d14	24		25.00		94.3	50	135				

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685700

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	20	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86883**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685700**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	37	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitrophenol	23	25	50.00	0	46.9	30	150				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	1.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	1.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	49	119				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	30	150				Y
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685700

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	26	5.0	20.00	0	128	38	138				Y
Phenol	6.4	5.0	20.00	0	31.8	30	150				
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	50	130				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685701

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	20	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	20	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	20	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	20	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	20	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	20	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	20	
2,4-Dinitrophenol	61	20	50.00	0	122	23	143	59.07	3.12	20	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	20	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	20	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	20	
2-Chlorophenol	14	5.0	20.00	0	67.8	37	117	11.51	16.4	20	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	20	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	20	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	20	J
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	20	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	20	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685701

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	20	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	20	
4-Nitrophenol	23	25	50.00	0	46.6	30	150	23.46	0.684	20	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	20	
Bis(2-chloroethyl) ether	12	1.0	20.00	0	58.2	43	118	10.45	10.8	20	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	20	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	20	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	20	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	20	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	20	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	20	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	20	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	20	
Hexachlorobenzene	11	1.0	20.00	0	55.8	53	125	11.59	3.78	20	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	20	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	20	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	20	
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	49	119	11.64	9.88	20	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	30	150	6.020	15.9	20	Y
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	20	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	20	
Pentachlorophenol	27	5.0	20.00	0	133	38	138	25.65	3.52	20	Y
Phenol	7.0	5.0	20.00	0	35.2	30	150	6.350	10.4	20	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	20	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	20	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	20	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	20	
Surr: Phenol-d5	8.1		25.00		32.4	50	130		0	20	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685740

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	1.0	1.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685740

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	1.0	1.0									U
Hexachlorobutadiene	1.0	1.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				J
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	30	130				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685741

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86884**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685741**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	1.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685741

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	1.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	1.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenol	6.4	5.0	20.00	0	31.8	50	130				Q
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	30	130				J
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685742

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86884**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685742**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	1.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Hexachlorobenzene	11	1.0	20.00	0	55.8	53	125	11.59	3.78	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685742

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachlorobutadiene	7.0	1.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenol	7.0	5.0	20.00	0	35.2	50	130	6.350	10.4	25	Q
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	30	130		0	25	J
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684993

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684993**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684993

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	33	122				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684994

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684994**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Benzoic acid	17	25	40.00	0	42.6	50	130				JQYZ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	5.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	5.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684994

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenol	6.4	5.0	20.00	0	31.8	34	121				Q
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	33	122				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684995

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	25	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684995**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Benzoic acid	32	25	40.00	0	80.1	50	130	17.03	61.2	25	RYZ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	5.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Hexachlorobenzene	11	5.0	20.00	0	55.8	53	125	11.59	3.78	25	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684995

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenol	7.0	5.0	20.00	0	35.2	34	121	6.350	10.4	25	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	33	122		0	25	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

Sample ID:	MB-1-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-1-40190**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718224**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-1-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	33	122				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-1-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718225

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-1-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718225**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Benzoic acid	17	25	40.00	0	42.6	50	130				JQYZ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	5.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	5.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-1-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718225

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenol	6.4	5.0	20.00	0	31.8	34	121				Q
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	33	122				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-1-40190	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718226

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	25	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-1-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718226**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Benzoic acid	32	25	40.00	0	80.1	50	130	17.03	61.2	25	RYZ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	5.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Hexachlorobenzene	11	5.0	20.00	0	55.8	53	125	11.59	3.78	25	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-1-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718226**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenol	7.0	5.0	20.00	0	35.2	34	121	6.350	10.4	25	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	33	122		0	25	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	LCS-40212	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86925
Client ID:	LCSW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1686475

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.10	2.000	0	70.4	50	114				
Aroclor 1260	1.7	0.15	2.000	0	87.2	20	127				
Surr: Tetrachloro-m-xylene	0.053		0.1000		52.6	48	111				
Surr: Decachlorobiphenyl	0.087		0.1000		87.1	47	122				

Sample ID:	MB-40212	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86925
Client ID:	PBW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1686476

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.062		0.1000		61.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.5	40	135				

Sample ID:	1606387-005CMS	Samp Type:	MS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87005
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688027

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.093	1.869	0	76.0	50	114				
Aroclor 1260	1.1	0.14	1.869	0	59.8	20	127				
Surr: Tetrachloro-m-xylene	0.048		0.09346		51.1	48	111				
Surr: Decachlorobiphenyl	0.0030		0.09346		3.24	47	122				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	1606387-005CMSD	Samp Type:	MSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87005
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688028

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.6	50	114	1.421	7.95	25	
Aroclor 1260	1.2	0.14	1.887	0	64.0	20	127	1.118	7.73	25	
Surr: Tetrachloro-m-xylene	0.063		0.09434		67.1	48	111		0	25	
Surr: Decachlorobiphenyl	0.031		0.09434		32.5	47	122		0	25	Q

Sample ID:	LCS-40212	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87004
Client ID:	LCSW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1688015

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.10	2.000	0	70.4	46	129				
Aroclor 1260	1.7	0.20	2.000	0	87.2	45	134				
Surr: Tetrachloro-m-xylene	0.053		0.1000		52.6	40	135				
Surr: Decachlorobiphenyl	0.087		0.1000		87.1	40	135				

Sample ID:	MB-40212	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87004
Client ID:	PBW	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1688016

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.062		0.1000		61.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.5	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40212**

Sample ID:	1606387-005CMS	Samp Type:	MS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87006
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688065

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.4	0.093	1.869	0	76.0	46	129				
Aroclor 1260	1.1	0.19	1.869	0	59.8	45	134				
Surr: Tetrachloro-m-xylene	0.048		0.09346		51.1	40	135				
Surr: Decachlorobiphenyl	0.0030		0.09346		3.24	40	135				Q

Sample ID:	1606387-005CMSD	Samp Type:	MSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87006
Client ID:	ZZZZZZ	Batch ID:	40212	TestNo:	SW8082	SW3510C		Analysis Date:	6/25/2016	SeqNo:	1688066

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.6	46	129	1.421	7.95	25	
Aroclor 1260	1.2	0.19	1.887	0	64.0	45	134	1.118	7.73	25	
Surr: Tetrachloro-m-xylene	0.063		0.09434		67.1	40	135		0	25	
Surr: Decachlorobiphenyl	0.031		0.09434		32.5	40	135		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696498

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,6-Trichlorophenol	5.0	5.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	20	20									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitrophenol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Diethyl phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696498

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	5.0	5.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	40	125				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	50	110				
Surr: 2-Fluorophenol	11		25.00		44.0	20	110				
Surr: Nitrobenzene-d5	18		25.00		70.5	40	110				
Surr: Phenol-d5	7.7		25.00		30.7	20	130				
Surr: Terphenyl-d14	27		25.00		107	50	135				

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696499

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,2-Dichlorobenzene	9.8	5.0	20.00	0	49.1	32	111				
1,3-Dichlorobenzene	8.7	5.0	20.00	0	43.4	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	20	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87384**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1696499**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	37	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitrophenol	26	25	50.00	0	52.0	30	150				
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	1.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	1.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	70.6	49	119				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	30	150				
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	3.0	20.00	0	62.3	45	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696499

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	21	5.0	20.00	0	103	38	138				
Phenol	6.2	5.0	20.00	0	31.2	30	150				
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	50	130				Q
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	WDS-SB21-GWMS1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696502

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.1	4.9	19.42	0	36.4	29	116				
1,2-Dichlorobenzene	7.1	4.9	19.42	0	36.7	32	111				
1,2-Diphenylhydrazine	10	4.9	19.42	0	53.6	50	150				
1,3-Dichlorobenzene	6.0	4.9	19.42	0	31.2	28	110				
1,4-Dichlorobenzene	6.3	4.9	19.42	0	32.3	29	112				
2,4,6-Trichlorophenol	14	3.9	19.42	0	71.9	50	125				
2,4-Dichlorophenol	12	4.9	19.42	0	63.1	47	121				
2,4-Dimethylphenol	12	4.9	19.42	0	60.4	31	124				
2,4-Dinitrophenol	48	19	48.54	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.9	19.42	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.9	19.42	0	77.1	57	124				
2-Chloronaphthalene	9.7	4.9	19.42	0	49.7	40	116				
2-Chlorophenol	9.8	4.9	19.42	0	50.5	37	117				
2-Methylphenol	11	4.9	19.42	0	55.1	30	117				
2-Nitrophenol	11	4.9	19.42	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.42	0	84.5	27	129				J
4,6-Dinitro-2-methylphenol	19	9.7	19.42	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.7	4.9	19.42	0	49.8	55	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	WDS-SB21-GWMS1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696502

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	14	4.9	19.42	0	72.8	52	119				
4-Chlorophenyl phenyl ether	11	4.9	19.42	0	55.8	53	121				
4-Methylphenol	19	9.7	38.83	0	48.9	25	120				
4-Nitrophenol	23	24	48.54	0	47.6	30	150				J
Acenaphthene	11	0.97	19.42	0	57.9	47	122				
Acenaphthylene	12	0.97	19.42	0	59.6	41	130				
Anthracene	11	0.97	19.42	0	55.8	57	123				Q
Benz(a)anthracene	13	0.97	19.42	0	65.3	58	125				
Benzidine	11	24	19.42	0	57.2	30	150				JZ
Benzo(a)pyrene	14	0.97	19.42	0	70.8	54	128				
Benzo(b)fluoranthene	15	0.97	19.42	0	76.1	53	131				
Benzo(g,h,i)perylene	14	0.97	19.42	0	70.2	50	134				
Benzo(k)fluoranthene	14	0.97	19.42	0	70.0	57	129				
Bis(2-chloroethoxy)methane	11	4.9	19.42	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.2	0.97	19.42	0	47.5	43	118				
Bis(2-chloroisopropyl) ether	7.9	4.9	19.42	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.9	19.42	0	68.4	55	135				
Butyl benzyl phthalate	13	4.9	19.42	0	64.8	53	134				
Carbazole	19	4.9	19.42	0	97.2	60	122				
Chrysene	12	0.97	19.42	0	61.4	59	123				
Di-n-butyl phthalate	13	4.9	19.42	0	65.0	59	127				
Di-n-octyl phthalate	14	4.9	19.42	0	72.2	51	140				
Dibenz(a,h)anthracene	16	0.97	19.42	0	80.9	51	134				
Diethyl phthalate	15	4.9	19.42	0	79.7	56	125				
Dimethyl phthalate	15	4.9	19.42	0	74.8	45	127				
Fluoranthene	13	0.97	19.42	0	65.8	57	128				
Fluorene	12	0.97	19.42	0	61.0	52	124				
Hexachlorobenzene	8.9	0.97	19.42	0	45.8	53	125				Q
Hexachlorobutadiene	5.0	4.9	19.42	0	25.9	22	124				
Hexachlorocyclopentadiene	4.4	4.9	19.42	0	22.5	30	150				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	WDS-SB21-GWMS1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696502

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	5.6	4.9	19.42	0	28.9	21	115				
Indeno(1,2,3-cd)pyrene	15	0.97	19.42	0	77.8	52	134				
Isophorone	11	4.9	19.42	0	56.7	42	124				
n-Decane	2.1	4.9	19.42	0	10.9	30	150				JQ
N-Nitrosodimethylamine	4.9	4.9	19.42	0	25.4	30	150				Q
N-Nitrosodiphenylamine	13	4.9	19.42	0	65.0	51	123				
N-nitrosodipropylamine	11	4.9	19.42	0	55.8	49	119				
n-Octadecane	8.1	4.9	19.42	0	41.9	30	150				
Naphthalene	9.4	0.97	19.42	0	48.3	40	121				
Nitrobenzene	9.4	2.9	19.42	0	48.5	45	121				
Pentachlorophenol	19	4.9	19.42	0	96.4	38	138				
Phenanthrene	11	0.97	19.42	0	57.4	59	120				Q
Phenol	5.0	4.9	19.42	0	25.6	30	150				Q
Pyrene	12	0.97	19.42	0	63.3	57	126				
Surr: 2,4,6-Tribromophenol	25		24.27		103	43	140				
Surr: 2-Fluorobiphenyl	15		24.27		62.3	44	119				
Surr: 2-Fluorophenol	8.1		24.27		33.3	19	119				
Surr: Nitrobenzene-d5	13		24.27		54.4	44	120				
Surr: Phenol-d5	6.6		24.27		27.3	50	130				Q
Surr: Terphenyl-d14	21		24.27		86.8	50	134				

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	WDS-SB21-GWSD1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696503

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.4	4.8	19.23	0	43.4	29	116	7.068	16.7	25	
1,2-Dichlorobenzene	8.6	4.8	19.23	0	45.0	32	111	7.117	19.4	25	
1,3-Dichlorobenzene	7.8	4.8	19.23	0	40.4	28	110	6.049	24.9	25	
1,4-Dichlorobenzene	8.0	4.8	19.23	0	41.6	29	112	6.262	24.3	25	
2,4,6-Trichlorophenol	16	3.8	19.23	0	80.6	50	125	13.95	10.5	25	
2,4-Dichlorophenol	14	4.8	19.23	0	72.3	47	121	12.25	12.6	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID: **1606422-008BMSD** Samp Type: **MSD** Test Code: **EPA_625** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **87384**

Client ID: **WDS-SB21-GWSD1** Batch ID: **40262** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/30/2016** SeqNo: **1696503**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dimethyl phenol	13	4.8	19.23	0	68.2	31	124	11.73	11.2	25	
2,4-Dinitrophenol	48	19	48.08	0	99.7	23	143	48.23	0.584	25	
2,4-Dinitrotoluene	18	4.8	19.23	0	91.6	57	128	17.43	1.07	25	
2,6-Dinitrotoluene	16	4.8	19.23	0	81.4	57	124	14.96	4.53	25	
2-Chloronaphthalene	11	4.8	19.23	0	59.0	40	116	9.650	16.1	25	
2-Chlorophenol	11	4.8	19.23	0	59.1	37	117	9.806	14.7	25	
2-Methylphenol (o-Cresol)	12	4.8	19.23	0	64.1	30	117	10.70	14.1	25	
2-Nitrophenol	13	4.8	19.23	0	68.2	47	123	11.20	15.8	25	
3,3´-Dichlorobenzidine	17	19	19.23	0	87.9	27	129	16.41	2.98	25	J
3/4-Methylphenol [m/p-Cresol]	22	9.6	38.46	0	57.2	25	120	18.98	14.8	25	
4,6-Dinitro-2-methylphenol	19	9.6	19.23	0	97.0	44	137	18.68	0.138	25	
4-Bromophenyl phenyl ether	10	4.8	19.23	0	54.2	55	124	9.660	7.69	25	Q
4-Chloro-3-methylphenol	16	4.8	19.23	0	80.8	52	119	14.13	9.58	25	
4-Chlorophenyl phenyl ether	12	4.8	19.23	0	62.4	53	121	10.83	10.4	25	
4-Nitrophenol	22	24	48.08	0	46.1	30	150	23.09	4.00	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.23	0	66.9	48	120	11.41	12.0	25	
Bis(2-chloroethyl) ether	11	0.96	19.23	0	56.6	43	118	9.214	16.5	25	
Bis(2-chloroisopropyl)ether	9.4	4.8	19.23	0	48.7	37	130	7.874	17.3	25	YZ
Bis(2-ethylhexyl) phthalate	12	4.8	19.23	0	61.6	55	135	13.27	11.4	25	
Butyl benzyl phthalate	12	4.8	19.23	0	61.4	53	134	12.57	6.20	25	
Carbazole	18	4.8	19.23	0	94.4	60	122	18.86	3.84	25	
Di-n-butyl phthalate	12	4.8	19.23	0	63.8	59	127	12.63	2.91	25	
Di-n-octyl phthalate	12	4.8	19.23	0	63.8	51	140	14.03	13.3	25	
Diethyl phthalate	16	4.8	19.23	0	81.0	56	125	15.48	0.652	25	
Dimethyl phthalate	15	4.8	19.23	0	77.4	45	127	14.51	2.58	25	
Hexachlorobenzene	8.8	0.96	19.23	0	45.6	53	125	8.893	1.29	25	Q
Hexachlorobutadiene	6.2	4.8	19.23	0	32.1	22	124	5.029	20.4	25	
Hexachloroethane	7.0	4.8	19.23	0	36.6	21	115	5.612	22.4	25	
Isophorone	12	4.8	19.23	0	64.2	42	124	11.01	11.4	25	
N-Nitroso-di-n-propylamine	12	4.8	19.23	0	64.8	49	119	10.84	14.0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	WDS-SB21-GWSD1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696503

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodimethylamine	6.7	4.8	19.23	0	34.8	30	150	4.942	30.1	25	R
N-Nitrosodiphenylamine	14	4.8	19.23	0	71.3	51	123	12.63	8.20	25	
Nitrobenzene	11	2.9	19.23	0	56.3	45	121	9.408	14.0	25	
Pentachlorophenol	18	4.8	19.23	0	94.2	38	138	18.72	3.33	25	
Phenol	5.6	4.8	19.23	0	29.2	30	150	4.971	12.3	25	Q
Surr: 2,4,6-Tribromophenol	26		24.04		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		24.04		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.8		24.04		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		24.04		64.4	44	120		0	25	
Surr: Phenol-d5	7.6		24.04		31.6	50	130		0	25	Q
Surr: Terphenyl-d14	20		24.04		85.0	50	134		0	25	

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697973

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697973

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UY
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697973

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	43	140				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	44	119				
Surr: 2-Fluorophenol	11		25.00		44.0	19	119				
Surr: Nitrobenzene-d5	18		25.00		70.5	44	120				
Surr: Phenol-d5	7.7		25.00		30.7	30	130				J
Surr: Terphenyl-d14	27		25.00		107	50	134				

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697974

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	92.7	53	123				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	25	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	38	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				
2-Nitroaniline	19	5.0	20.00	0	96.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3-Nitroaniline	20	10	20.00	0	101	41	128				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697974

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chloroaniline [p-Chloroaniline]	16	10	20.00	0	82.0	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitroaniline	23	10	20.00	0	113	50	130				
4-Nitrophenol	26	25	50.00	0	52.0	50	130				
Benzyl alcohol	10	25	20.00	0	52.5	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	5.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Dibenzofuran	16	4.0	20.00	0	78.5	53	118				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	5.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	70.6	50	130				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	50	130				Q
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	5.0	20.00	0	62.3	45	121				
Pentachlorophenol	21	5.0	20.00	0	103	35	138				
Phenol	6.2	5.0	20.00	0	31.2	50	130				Q
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697974

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	30	130				J
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	WDS-SB21-GWMS1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.9	4.8	19.05	0	36.4	29	116				
1,4-Dichlorobenzene	6.1	4.8	19.05	0	32.3	29	112				
2,3,4,6-Tetrachlorophenol	14	19	19.05	0	72.8	50	128				J
2,4,5-Trichlorophenol	15	4.8	19.05	0	78.4	53	123				
2,4,6-Trichlorophenol	14	3.8	19.05	0	71.8	50	125				
2,4-Dichlorophenol	12	4.8	19.05	0	63.1	47	121				
2,4-Dimethylphenol	12	4.8	19.05	0	60.4	31	124				
2,4-Dinitrophenol	47	24	47.62	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.8	19.05	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.8	19.05	0	77.0	57	124				
2-Chloronaphthalene	9.5	4.8	19.05	0	49.7	40	116				
2-Chlorophenol	9.6	4.8	19.05	0	50.5	38	117				
2-Methylnaphthalene	9.8	4.8	19.05	0	51.6	40	121				
2-Methylphenol	10	4.8	19.05	0	55.1	30	117				
2-Nitroaniline	15	4.8	19.05	0	80.7	55	127				
2-Nitrophenol	11	4.8	19.05	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.05	0	84.5	27	129				J
3-Nitroaniline	16	9.5	19.05	0	86.0	41	128				
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.5	4.8	19.05	0	49.8	55	124				Q
4-Chloro-3-methylphenol	14	4.8	19.05	0	72.8	52	119				
4-Chloroaniline	14	9.5	19.05	0	72.0	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	WDS-SB21-GWMS1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chlorophenyl phenyl ether	11	4.8	19.05	0	55.8	53	121				
4-Nitroaniline	19	9.5	19.05	0	98.7	50	130				
4-Nitrophenol	23	24	47.62	0	47.6	50	130				JQ
Acenaphthene	11	4.8	19.05	0	57.9	47	122				
Acenaphthylene	11	4.8	19.05	0	59.7	41	130				
Aniline	9.7	4.8	19.05	0	51.0	50	130				
Anthracene	11	4.8	19.05	0	55.8	57	123				Q
Benzo(a)anthracene	12	4.8	19.05	0	65.3	58	125				
Benzo(a)pyrene	13	4.8	19.05	0	70.8	54	128				
Benzo(b)fluoranthene	14	4.8	19.05	0	76.1	53	131				
Benzo(g,h,i)perylene	13	4.8	19.05	0	70.2	50	134				
Benzo(k)fluoranthene	13	4.8	19.05	0	70.0	57	129				
Benzyl alcohol	8.3	24	19.05	0	43.6	31	112				J
Bis(2-chloroethoxy)methane	11	4.8	19.05	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.0	4.8	19.05	0	47.5	43	118				
Bis(2-chloroisopropyl) ether	7.7	4.8	19.05	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.8	19.05	0	68.4	55	135				
Butylbenzyl phthalate	12	4.8	19.05	0	64.8	53	134				
Carbazole	19	4.8	19.05	0	97.2	60	122				
Chrysene	12	4.8	19.05	0	61.4	59	123				
Di-n-butyl phthalate	12	4.8	19.05	0	65.0	59	127				
Di-n-octyl phthalate	14	4.8	19.05	0	72.3	51	140				
Dibenzo(a,h)anthracene	15	4.8	19.05	0	80.8	51	134				
Dibenzofuran	11	3.8	19.05	0	59.3	53	118				
Diethyl phthalate	15	4.8	19.05	0	79.7	56	125				
Dimethyl phthalate	14	4.8	19.05	0	74.8	45	127				
Fluoranthene	13	4.8	19.05	0	65.8	57	128				
Fluorene	12	4.8	19.05	0	61.0	52	124				
Hexachlorobenzene	8.7	4.8	19.05	0	45.8	53	125				Q
Hexachlorobutadiene	4.9	4.8	19.05	0	25.9	22	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID: **1606422-008BMS** Samp Type: **MS** Test Code: **SW_8270A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **87440**

Client ID: **WDS-SB21-GWMS1** Batch ID: **40262** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/30/2016** SeqNo: **1697980**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachlorocyclopentadiene	4.3	4.8	19.05	0	22.5	50	130				JQ
Hexachloroethane	5.5	4.8	19.05	0	28.9	21	115				
Indeno(1,2,3-cd)pyrene	15	4.8	19.05	0	77.8	52	134				
Isophorone	11	4.8	19.05	0	56.7	42	124				
M,P-Cresol	19	9.5	38.10	0	48.9	25	120				
N-Nitroso-di-n-propylamine	11	4.8	19.05	0	55.8	50	130				
N-Nitrosodiethylamine	8.9	4.8	19.05	0	46.6	43	121				
N-Nitrosodimethylamine	4.8	4.8	19.05	0	25.4	50	130				Q
N-Nitrosodiphenylamine	12	4.8	19.05	0	65.0	51	123				
Naphthalene	9.2	4.8	19.05	0	48.2	40	121				
Nitrobenzene	9.2	4.8	19.05	0	48.5	45	121				
Pentachlorophenol	18	4.8	19.05	0	96.4	35	138				
Phenanthrene	11	4.8	19.05	0	57.4	59	120				Q
Phenol	4.9	4.8	19.05	0	25.6	50	130				Q
Pyrene	12	4.8	19.05	0	63.3	57	126				
Pyridine	3.9	9.5	19.05	0	20.6	50	130				JQ
Surr: 2,4,6-Tribromophenol	25		23.81		103	43	140				
Surr: 2-Fluorobiphenyl	15		23.81		62.3	44	119				
Surr: 2-Fluorophenol	7.9		23.81		33.3	19	119				
Surr: Nitrobenzene-d5	13		23.81		54.4	44	120				
Surr: Phenol-d5	6.5		23.81		27.3	30	130				JQ
Surr: Terphenyl-d14	21		23.81		86.8	50	134				

Sample ID: **1606422-008BMSD** Samp Type: **MSD** Test Code: **SW_8270A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **87440**

Client ID: **WDS-SB21-GWSD1** Batch ID: **40262** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/30/2016** SeqNo: **1697981**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.3	4.8	19.05	0	43.5	29	116	6.933	17.7	25	
1,4-Dichlorobenzene	7.9	4.8	19.05	0	41.6	29	112	6.143	25.2	25	R
2,4,5-Trichlorophenol	16	4.8	19.05	0	84.0	53	123	14.93	6.90	25	
2,4,6-Trichlorophenol	15	3.8	19.05	0	80.6	50	125	13.69	11.5	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	WDS-SB21-GWSD1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	14	4.8	19.05	0	72.3	47	121	12.02	13.5	25	
2,4-Dimethyl phenol	13	4.8	19.05	0	68.2	31	124	11.50	12.1	25	
2,4-Dinitrophenol	47	24	47.62	0	99.7	23	143	47.31	0.382	25	
2,4-Dinitrotoluene	17	4.8	19.05	0	91.6	57	128	17.10	2.04	25	
2,6-Dinitrotoluene	16	4.8	19.05	0	81.4	57	124	14.68	5.49	25	
2-Chloronaphthalene	11	4.8	19.05	0	59.0	40	116	9.467	17.0	25	
2-Chlorophenol	11	4.8	19.05	0	59.1	38	117	9.619	15.7	25	
2-Methylphenol (o-Cresol)	12	4.8	19.05	0	64.1	30	117	10.50	15.1	25	
2-Nitroaniline	17	4.8	19.05	0	88.4	55	127	15.37	9.16	25	
2-Nitrophenol	13	4.8	19.05	0	68.2	47	123	10.99	16.8	25	
3,3´-Dichlorobenzidine	17	19	19.05	0	87.9	27	129	16.10	3.94	25	J
3-Nitroaniline	19	9.5	19.05	0	98.6	41	128	16.37	13.7	25	
3/4-Methylphenol [m/p-Cresol]	22	9.5	38.10	0	57.2	25	120	18.62	15.7	25	
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	97.0	44	137	18.32	0.828	25	
4-Bromophenyl phenyl ether	10	4.8	19.05	0	54.2	55	124	9.476	8.65	25	Q
4-Chloro-3-methylphenol	15	4.8	19.05	0	80.8	52	119	13.86	10.5	25	
4-Chloroaniline [p-Chloroaniline]	16	9.5	19.05	0	81.6	33	117	13.72	12.4	25	
4-Chlorophenyl phenyl ether	12	4.8	19.05	0	62.4	53	121	10.62	11.3	25	
4-Nitroaniline	19	9.5	19.05	0	99.6	50	130	18.80	0.858	25	
4-Nitrophenol	22	24	47.62	0	46.1	50	130	22.65	3.03	25	JQ
Benzyl alcohol	9.9	24	19.05	0	52.2	31	112	8.305	18.0	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.05	0	66.9	48	120	11.19	13.0	25	
Bis(2-chloroethyl) ether	11	4.8	19.05	0	56.6	43	118	9.038	17.5	25	
Bis(2-chloroisopropyl)ether	9.3	4.8	19.05	0	48.7	37	130	7.724	18.3	25	YZ
Bis(2-ethylhexyl) phthalate	12	4.8	19.05	0	61.6	55	135	13.02	10.4	25	
Butyl benzyl phthalate	12	4.8	19.05	0	61.4	53	134	12.33	5.23	25	
Carbazole	18	4.8	19.05	0	94.4	60	122	18.50	2.87	25	
Di-n-butyl phthalate	12	4.8	19.05	0	63.8	59	127	12.39	1.94	25	
Di-n-octyl phthalate	12	4.8	19.05	0	63.8	51	140	13.76	12.3	25	
Dibenzofuran	13	3.8	19.05	0	66.4	53	118	11.30	11.2	25	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	WDS-SB21-GWSD1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Diethyl phthalate	15	4.8	19.05	0	81.0	56	125	15.18	1.62	25	
Dimethyl phthalate	15	4.8	19.05	0	77.4	45	127	14.24	3.55	25	
Hexachlorobenzene	8.7	4.8	19.05	0	45.7	53	125	8.724	0.328	25	Q
Hexachlorobutadiene	6.1	4.8	19.05	0	32.1	22	124	4.933	21.4	25	
Hexachloroethane	7.0	4.8	19.05	0	36.6	21	115	5.505	23.4	25	
Isophorone	12	4.8	19.05	0	64.2	42	124	10.80	12.4	25	
N-Nitroso-di-n-propylamine	12	4.8	19.05	0	64.9	50	130	10.64	14.9	25	
N-Nitrosodimethylamine	6.6	4.8	19.05	0	34.8	50	130	4.848	31.0	25	RQ
N-Nitrosodiphenylamine	14	4.8	19.05	0	71.3	51	123	12.39	9.17	25	
Nitrobenzene	11	4.8	19.05	0	56.3	45	121	9.229	15.0	25	
Pentachlorophenol	18	4.8	19.05	0	94.2	35	138	18.36	2.36	25	
Phenol	5.6	4.8	19.05	0	29.2	50	130	4.876	13.3	25	Q
Surr: 2,4,6-Tribromophenol	25		23.81		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		23.81		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.7		23.81		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		23.81		64.4	44	120		0	25	
Surr: Phenol-d5	7.5		23.81		31.6	30	130		0	25	J
Surr: Terphenyl-d14	20		23.81		85.0	50	134		0	25	

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UY
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**MB-40262**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**PBW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697665**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	43	140				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	44	119				
Surr: 2-Fluorophenol	11		25.00		44.0	19	119				
Surr: Nitrobenzene-d5	18		25.00		70.5	44	120				
Surr: Phenol-d5	7.7		25.00		30.7	33	122				Q
Surr: Terphenyl-d14	27		25.00		107	50	134				

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697666**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,2-Dichlorobenzene	9.8	5.0	20.00	0	49.1	32	111				
1,3-Dichlorobenzene	8.7	5.0	20.00	0	43.4	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	92.7	53	123				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	25	50.00	0	104	23	143				J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697666**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	38	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				
2-Nitroaniline	19	5.0	20.00	0	96.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3-Nitroaniline	20	10	20.00	0	101	41	128				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chloroaniline [p-Chloroaniline]	16	10	20.00	0	82.0	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitroaniline	23	10	20.00	0	113	50	130				
4-Nitrophenol	26	25	50.00	0	52.0	50	130				
Benzoic acid	20	25	40.00	0	48.8	50	130				JQY
Benzyl alcohol	10	25	20.00	0	52.5	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	5.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Dibenzofuran	16	4.0	20.00	0	78.5	53	118				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697666

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachlorobenzene	13	5.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	70.6	50	130				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	50	130				Q
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	3.0	20.00	0	62.3	45	121				
Pentachlorophenol	21	5.0	20.00	0	103	35	138				
Phenol	6.2	5.0	20.00	0	31.2	34	121				Q
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	33	122				
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	1606422-008BMS-2	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	WDS-SB21-GWMS1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697669

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.9	4.8	19.05	0	36.4	29	116				
1,2-Dichlorobenzene	7.0	4.8	19.05	0	36.6	32	111				
1,3-Dichlorobenzene	5.9	4.8	19.05	0	31.2	28	110				
1,4-Dichlorobenzene	6.1	4.8	19.05	0	32.3	29	112				
2,4,5-Trichlorophenol	15	4.8	19.05	0	78.4	53	123				
2,4,6-Trichlorophenol	14	3.8	19.05	0	71.8	50	125				
2,4-Dichlorophenol	12	4.8	19.05	0	63.1	47	121				
2,4-Dimethyl phenol	12	4.8	19.05	0	60.4	31	124				
2,4-Dinitrophenol	47	24	47.62	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.8	19.05	0	89.8	57	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**1606422-008BMS-2**	Samp Type:	**MS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**WDS-SB21-GWMS1**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697669**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	15	4.8	19.05	0	77.0	57	124				
2-Chloronaphthalene	9.5	4.8	19.05	0	49.7	40	116				
2-Chlorophenol	9.6	4.8	19.05	0	50.5	38	117				
2-Methylphenol (o-Cresol)	10	4.8	19.05	0	55.1	30	117				
2-Nitroaniline	15	4.8	19.05	0	80.7	55	127				
2-Nitrophenol	11	4.8	19.05	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.05	0	84.5	27	129				J
3-Nitroaniline	16	9.5	19.05	0	86.0	41	128				
3/4-Methylphenol [m/p-Cresol]	19	9.5	38.10	0	48.9	25	120				
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.5	4.8	19.05	0	49.8	55	124				Q
4-Chloro-3-methylphenol	14	4.8	19.05	0	72.8	52	119				
4-Chloroaniline [p-Chloroaniline]	14	9.5	19.05	0	72.0	33	117				
4-Chlorophenyl phenyl ether	11	4.8	19.05	0	55.8	53	121				
4-Nitroaniline	19	9.5	19.05	0	98.7	50	130				
4-Nitrophenol	23	24	47.62	0	47.6	50	130				JQ
Benzoic acid	20	24	38.10	0	52.0	50	130				JY
Benzyl alcohol	8.3	24	19.05	0	43.6	31	112				J
Bis(2-chloroethoxy) methane	11	4.8	19.05	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.0	4.8	19.05	0	47.5	43	118				
Bis(2-chloroisopropyl)ether	7.7	4.8	19.05	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.8	19.05	0	68.4	55	135				
Butyl benzyl phthalate	12	4.8	19.05	0	64.8	53	134				
Carbazole	19	4.8	19.05	0	97.2	60	122				
Di-n-butyl phthalate	12	4.8	19.05	0	65.0	59	127				
Di-n-octyl phthalate	14	4.8	19.05	0	72.3	51	140				
Dibenzofuran	11	3.8	19.05	0	59.3	53	118				
Diethyl phthalate	15	4.8	19.05	0	79.7	56	125				
Dimethyl phthalate	14	4.8	19.05	0	74.8	45	127				
Hexachlorobenzene	8.7	4.8	19.05	0	45.8	53	125				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMS-2	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	WDS-SB21-GWMS1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697669

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachlorobutadiene	4.9	4.8	19.05	0	25.9	22	124				
Hexachloroethane	5.5	4.8	19.05	0	28.9	21	115				
Isophorone	11	4.8	19.05	0	56.7	42	124				
N-Nitroso-di-n-propylamine	11	4.8	19.05	0	55.8	50	130				
N-Nitrosodimethylamine	4.8	4.8	19.05	0	25.4	50	130				Q
N-Nitrosodiphenylamine	12	4.8	19.05	0	65.0	51	123				
Nitrobenzene	9.2	2.9	19.05	0	48.5	45	121				
Pentachlorophenol	18	4.8	19.05	0	96.4	35	138				
Phenol	4.9	4.8	19.05	0	25.6	34	121				Q
Surr: 2,4,6-Tribromophenol	25		23.81		103	43	140				
Surr: 2-Fluorobiphenyl	15		23.81		62.3	44	119				
Surr: 2-Fluorophenol	7.9		23.81		33.3	19	119				
Surr: Nitrobenzene-d5	13		23.81		54.4	44	120				
Surr: Phenol-d5	6.5		23.81		27.3	33	122				Q
Surr: Terphenyl-d14	21		23.81		86.8	50	134				

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	WDS-SB21-GWSD1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.3	4.8	19.05	0	43.5	29	116	7.951	4.00	25	
1,2-Dichlorobenzene	8.6	4.8	19.05	0	45.0	32	111	7.544	12.6	25	
1,3-Dichlorobenzene	7.7	4.8	19.05	0	40.4	28	110	6.777	12.7	25	
1,4-Dichlorobenzene	7.9	4.8	19.05	0	41.6	29	112	6.670	17.1	25	
2,4,5-Trichlorophenol	16	4.8	19.05	0	84.0	53	123	16.17	1.03	25	
2,4,6-Trichlorophenol	15	3.8	19.05	0	80.6	50	125	16.45	6.88	25	
2,4-Dichlorophenol	14	4.8	19.05	0	72.3	47	121	14.20	3.16	25	
2,4-Dimethyl phenol	13	4.8	19.05	0	68.2	31	124	12.62	2.88	25	
2,4-Dinitrophenol	47	24	47.62	0	99.7	23	143	56.35	17.1	25	
2,4-Dinitrotoluene	17	4.8	19.05	0	91.6	57	128	18.40	5.30	25	
2,6-Dinitrotoluene	16	4.8	19.05	0	81.4	57	124	15.63	0.811	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	WDS-SB21-GWSD1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloronaphthalene	11	4.8	19.05	0	59.0	40	116	9.583	15.8	25	
2-Chlorophenol	11	4.8	19.05	0	59.1	38	117	10.36	8.31	25	
2-Methylphenol (o-Cresol)	12	4.8	19.05	0	64.1	30	117	10.98	10.6	25	
2-Nitroaniline	17	4.8	19.05	0	88.4	55	127	15.97	5.34	25	
2-Nitrophenol	13	4.8	19.05	0	68.2	47	123	13.42	3.16	25	
3,3´-Dichlorobenzidine	17	19	19.05	0	87.9	27	129	17.29	3.22	25	J
3-Nitroaniline	19	9.5	19.05	0	98.6	41	128	16.43	13.3	25	
3/4-Methylphenol [m/p-Cresol]	22	9.5	38.10	0	57.2	25	120	20.35	6.88	25	
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	97.0	44	137	23.24	22.9	25	
4-Bromophenyl phenyl ether	10	4.8	19.05	0	54.2	55	124	10.63	2.84	25	Q
4-Chloro-3-methylphenol	15	4.8	19.05	0	80.8	52	119	16.60	7.51	25	
4-Chloroaniline [p-Chloroaniline]	16	9.5	19.05	0	81.6	33	117	15.73	1.19	25	
4-Chlorophenyl phenyl ether	12	4.8	19.05	0	62.4	53	121	12.09	1.60	25	
4-Nitroaniline	19	9.5	19.05	0	99.6	50	130	16.95	11.2	25	
4-Nitrophenol	22	24	47.62	0	46.1	50	130	20.71	5.92	25	JQ
Benzoic acid	16	24	38.10	0	41.1	50	130	28.77	59.1	25	JRQY
Benzyl alcohol	9.9	24	19.05	0	52.2	31	112	10.97	9.83	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.05	0	66.9	48	120	11.17	13.1	25	
Bis(2-chloroethyl) ether	11	4.8	19.05	0	56.6	43	118	9.058	17.3	25	
Bis(2-chloroisopropyl)ether	9.3	4.8	19.05	0	48.7	37	130	8.990	3.13	25	YZ
Bis(2-ethylhexyl) phthalate	12	4.8	19.05	0	61.6	55	135	14.85	23.5	25	
Butyl benzyl phthalate	12	4.8	19.05	0	61.4	53	134	15.10	25.3	25	R
Carbazole	18	4.8	19.05	0	94.4	60	122	16.12	10.9	25	
Di-n-butyl phthalate	12	4.8	19.05	0	63.8	59	127	14.29	16.2	25	
Di-n-octyl phthalate	12	4.8	19.05	0	63.8	51	140	14.93	20.4	25	
Dibenzofuran	13	3.8	19.05	0	66.4	53	118	11.95	5.58	25	
Diethyl phthalate	15	4.8	19.05	0	81.0	56	125	16.39	6.03	25	
Dimethyl phthalate	15	4.8	19.05	0	77.4	45	127	15.30	3.65	25	
Hexachlorobenzene	8.7	4.8	19.05	0	45.7	53	125	9.544	9.30	25	Q
Hexachlorobutadiene	6.1	4.8	19.05	0	32.1	22	124	5.913	3.35	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	WDS-SB21-GWSD1	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	7.0	4.8	19.05	0	36.6	21	115	5.485	23.7	25	
Isophorone	12	4.8	19.05	0	64.2	42	124	11.50	6.10	25	
N-Nitroso-di-n-propylamine	12	4.8	19.05	0	64.9	50	130	11.21	9.66	25	
N-Nitrosodimethylamine	6.6	4.8	19.05	0	34.8	50	130	5.534	18.0	25	Q
N-Nitrosodiphenylamine	14	4.8	19.05	0	71.3	51	123	13.36	1.65	25	
Nitrobenzene	11	2.9	19.05	0	56.3	45	121	10.01	6.89	25	
Pentachlorophenol	18	4.8	19.05	0	94.2	35	138	19.35	7.60	25	
Phenol	5.6	4.8	19.05	0	29.2	34	121	4.456	22.2	25	Q
Surr: 2,4,6-Tribromophenol	25		23.81		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		23.81		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.7		23.81		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		23.81		64.4	44	120		0	25	
Surr: Phenol-d5	7.5		23.81		31.6	33	122		0	25	Q
Surr: Terphenyl-d14	20		23.81		85.0	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	1606422-008CMS	Samp Type:	MS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	WDS-SB21-GWMS1	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688618

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.098	1.961	0	79.2	50	114				
Aroclor 1260	1.6	0.15	1.961	0	82.9	20	127				
Surr: Tetrachloro-m-xylene	0.062		0.09804		63.5	48	111				
Surr: Decachlorobiphenyl	0.073		0.09804		74.3	47	122				

Sample ID:	1606422-008CMSD	Samp Type:	MSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	WDS-SB21-GWSD1	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688619

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.094	1.887	0	83.0	50	114	1.553	0.816	25	
Aroclor 1260	1.7	0.14	1.887	0	90.1	20	127	1.625	4.51	25	
Surr: Tetrachloro-m-xylene	0.062		0.09434		66.1	48	111		0	25	
Surr: Decachlorobiphenyl	0.079		0.09434		83.6	47	122		0	25	

Sample ID:	LCS-40264	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	LCSW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688631

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.7	0.10	2.000	0	83.7	50	114				
Aroclor 1260	1.7	0.15	2.000	0	86.6	20	127				
Surr: Tetrachloro-m-xylene	0.070		0.1000		69.9	48	111				
Surr: Decachlorobiphenyl	0.083		0.1000		83.3	47	122				

Sample ID:	MB-40264	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	PBW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688632

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	MB-40264	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	PBW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688632

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.094		0.1000		93.7	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		106	40	135				

Sample ID:	1606422-008CMS	Samp Type:	MS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87065
Client ID:	WDS-SB21-GWMS1	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688971

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.098	1.961	0	80.4	46	129				
Aroclor 1260	1.6	0.20	1.961	0	82.0	45	134				
Surr: Tetrachloro-m-xylene	0.060		0.09804		61.2	40	135				
Surr: Decachlorobiphenyl	0.071		0.09804		72.1	40	135				

Sample ID:	1606422-008CMSD	Samp Type:	MSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87065
Client ID:	WDS-SB21-GWSD1	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688972

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.7	46	129	1.577	2.27	25	
Aroclor 1260	1.6	0.19	1.887	0	87.3	45	134	1.609	2.41	25	
Surr: Tetrachloro-m-xylene	0.059		0.09434		62.9	40	135		0	25	
Surr: Decachlorobiphenyl	0.073		0.09434		77.7	40	135		0	25	

Sample ID:	LCS-40264	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87065
Client ID:	LCSW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688996

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.8	0.10	2.000	0	91.2	46	129				
Aroclor 1260	1.9	0.20	2.000	0	95.6	45	134				
Surr: Tetrachloro-m-xylene	0.076		0.1000		75.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.4	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	**MB-40264**	Samp Type:	**MBLK**	Test Code:	**SW_8082A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87065**
Client ID:	**PBW**	Batch ID:	**40264**	TestNo:	**SW8082**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1688997**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.082		0.1000		81.7	40	135				
Surr: Decachlorobiphenyl	0.093		0.1000		92.7	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40294**

Sample ID:	**MB-40294**	Samp Type:	**MBLK**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**6/29/2016**	RunNo:	**87644**
Client ID:	**PBW**	Batch ID:	**40294**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/27/2016**	SeqNo:	**1702882**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	50	50									UG
Arsenic	1.5	1.5									U
Barium	25	25									U
Beryllium	1.0	1.0									U
Cadmium	1.0	1.0									U
Calcium	1,000	1,000									U
Chromium	10	10									U
Cobalt	5.0	5.0									U
Copper	5.0	5.0									U
Iron	200	200									U
Lead	1.0	1.0									U
Magnesium	500	500									U
Manganese	5.0	5.0									U
Nickel	10	10									U
Potassium	500	500									U
Selenium	5.0	5.0									U
Sodium	500	500									U
Thallium	2.0	2.0									U
Vanadium	4.0	4.0									U
Zinc	50	50									U

Sample ID:	**LCS-40294**	Samp Type:	**LCS**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**6/29/2016**	RunNo:	**87644**
Client ID:	**LCSW**	Batch ID:	**40294**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/27/2016**	SeqNo:	**1702883**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	230	50	200.0	0	113	84	117				G
Arsenic	230	1.5	200.0	0	113	84	116				
Barium	210	25	200.0	0	103	86	114				
Beryllium	200	1.0	200.0	0	99.2	83	121				
Cadmium	200	1.0	200.0	0	100	87	115				
Calcium	2,100	1,000	2,000	0	103	87	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40294**

Sample ID:	LCS-40294	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87644
Client ID:	LCSW	Batch ID:	40294	TestNo:	SW6020A	SW3020A		Analysis Date:	7/27/2016	SeqNo:	1702883

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	200	10	200.0	0	102	85	116				
Cobalt	200	5.0	200.0	0	102	86	115				
Copper	210	5.0	200.0	0	105	85	118				
Iron	2,000	200	2,000	0	102	87	118				
Lead	210	1.0	200.0	0	103	88	115				
Magnesium	2,000	500	2,000	0	99.1	83	118				
Manganese	210	5.0	200.0	0	103	87	115				
Nickel	210	10	200.0	0	103	85	117				
Potassium	2,000	500	2,000	0	97.8	87	115				
Selenium	220	5.0	200.0	0	110	80	120				
Sodium	2,000	500	2,000	0	97.6	85	117				
Thallium	200	2.0	200.0	0	101	82	116				
Vanadium	200	4.0	200.0	0	101	86	115				
Zinc	200	50	200.0	0	98.2	83	119				

Sample ID:	1606422-008DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87644
Client ID:	WDS-SB21-GWMS1	Batch ID:	40294	TestNo:	SW6020A	SW3020A		Analysis Date:	7/27/2016	SeqNo:	1702885

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	1,700	50	200.0	1,682	1.75	84	117				QG
Arsenic	190	1.5	200.0	0	95.1	84	116				
Barium	210	25	200.0	19.38	97.5	86	114				
Beryllium	190	1.0	200.0	0	93.9	83	121				
Cadmium	190	1.0	200.0	0	95.4	87	115				
Calcium	3,800	1,000	2,000	2,000	89.2	87	118				
Chromium	190	10	200.0	2.135	93.7	85	116				
Cobalt	190	5.0	200.0	1.500	94.1	86	115				
Copper	190	5.0	200.0	0.8250	96.5	85	118				
Iron	3,300	200	2,000	1,900	72.2	87	118				Q
Lead	190	1.0	200.0	0.9650	94.7	88	115				
Magnesium	3,500	500	2,000	1,790	85.3	83	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40294

Sample ID:	1606422-008DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87644
Client ID:	WDS-SB21-GWMS1	Batch ID:	40294	TestNo:	SW6020A	SW3020A		Analysis Date:	7/27/2016	SeqNo:	1702885

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Manganese	420	5.0	200.0	240.5	87.6	87	115				
Nickel	190	10	200.0	1.895	95.9	85	117				
Potassium	4,100	500	2,000	2,409	82.6	87	115				Q
Selenium	190	5.0	200.0	1.465	92.1	80	120				
Sodium	15,000	500	2,000	14,320	57.2	85	117				Q
Thallium	190	2.0	200.0	0	93.4	82	116				
Vanadium	190	4.0	200.0	2.740	93.0	86	115				
Zinc	190	50	200.0	0	93.9	83	119				

Sample ID:	1606422-008DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87644
Client ID:	WDS-SB21-GWSD1	Batch ID:	40294	TestNo:	SW6020A	SW3020A		Analysis Date:	7/27/2016	SeqNo:	1702886

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	1,700	50	200.0	1,682	6.01	84	117	1,685	0.503	20	QG
Arsenic	190	1.5	200.0	0	95.6	84	116	190.3	0.472	20	
Barium	220	25	200.0	19.38	100	86	114	214.3	2.53	20	
Beryllium	190	1.0	200.0	0	97.2	83	121	187.8	3.47	20	
Cadmium	190	1.0	200.0	0	97.3	87	115	190.8	1.96	20	
Calcium	3,900	1,000	2,000	2,000	93.8	87	118	3,784	2.39	20	
Chromium	190	10	200.0	2.135	95.5	85	116	189.6	1.91	20	
Cobalt	190	5.0	200.0	1.500	94.9	86	115	189.6	0.900	20	
Copper	200	5.0	200.0	0.8250	98.0	85	118	193.8	1.58	20	
Iron	3,400	200	2,000	1,900	73.6	87	118	3,344	0.827	20	Q
Lead	200	1.0	200.0	0.9650	97.4	88	115	190.3	2.76	20	
Magnesium	3,600	500	2,000	1,790	89.3	83	118	3,495	2.31	20	
Manganese	420	5.0	200.0	240.5	87.9	87	115	415.7	0.131	20	
Nickel	190	10	200.0	1.895	95.8	85	117	193.7	0.0775	20	
Potassium	4,100	500	2,000	2,409	84.0	87	115	4,061	0.694	20	Q
Selenium	190	5.0	200.0	1.465	92.6	80	120	185.7	0.465	20	
Sodium	16,000	500	2,000	14,320	79.9	85	117	15,460	2.90	20	Q
Thallium	190	2.0	200.0	0	95.7	82	116	186.9	2.40	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40294**

Sample ID:	**1606422-008DMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**6/29/2016**	RunNo:	**87644**
Client ID:	**WDS-SB21-GWSD1**	Batch ID:	**40294**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/27/2016**	SeqNo:	**1702886**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Vanadium	190	4.0	200.0	2.740	93.4	86	115	188.7	0.426	20	
Zinc	190	50	200.0	0	94.9	83	119	187.8	1.08	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86803

Sample ID:	VOA10 LCS 062116	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86803
Client ID:	LCSW	Batch ID:	R86803	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684190

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.7	1.0	10.00	0	96.7	78	124				
1,1,1-Trichloroethane	9.8	1.0	10.00	0	98.0	74	131				
1,1,2,2-Tetrachloroethane	9.7	1.0	10.00	0	97.2	71	121				
1,1,2-Trichloroethane	10	1.0	10.00	0	103	80	119				
1,1-Dichloroethane	9.7	2.0	10.00	0	96.9	77	125				
1,1-Dichloroethene	10	1.0	10.00	0	101	71	131				
1,2,3-Trichloropropane	8.7	1.0	10.00	0	87.2	73	122				
1,2-Dibromo-3-chloropropane	9.6	5.0	10.00	0	96.2	62	128				Y
1,2-Dibromoethane	9.5	1.0	10.00	0	95.3	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	108	73	128				
1,2-Dichloropropane	10	1.0	10.00	0	104	78	122				
2-Butanone [MEK]	11	10	10.00	0	111	56	143				
2-Hexanone	9.1	2.0	10.00	0	90.7	57	139				
Acetone	12	10	10.00	0	116	39	160				
Benzene	9.4	1.0	10.00	0	93.9	79	120				
Bromodichloromethane	11	1.0	10.00	0	108	79	125				
Bromoform	7.7	1.0	10.00	0	76.7	66	130				
Carbon disulfide	9.6	1.0	10.00	0	95.7	64	133				
Carbon tetrachloride	10	1.0	10.00	0	102	72	136				
Chlorobenzene	9.6	1.0	10.00	0	95.5	82	118				
Chlorodibromomethane	11	1.0	10.00	0	108	74	126				Y
Chloroethane	12	2.0	10.00	0	118	60	138				
Chloroform	9.6	1.0	10.00	0	96.5	79	124				
Chloromethane	8.7	1.0	10.00	0	87.3	50	139				
cis-1,2-Dichloroethene	10	1.0	10.00	0	101	78	123				
cis-1,3-Dichloropropene	9.2	1.0	10.00	0	91.8	75	124				
Dichlorodifluoromethane [Freon-12]	9.7	1.0	10.00	0	97.2	32	152				
Ethylbenzene	9.4	1.0	10.00	0	94.4	79	121				
Methylene chloride	12	5.0	10.00	0	116	74	124				
Styrene	9.4	1.0	10.00	0	94.0	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86803

Sample ID:	VOA10 LCS 062116	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86803
Client ID:	LCSW	Batch ID:	R86803	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684190

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	9.8	1.0	10.00	0	98.5	74	129				
Toluene	11	1.0	10.00	0	108	80	121				
trans-1,2-Dichloroethene	10	1.0	10.00	0	104	75	124				
trans-1,3-Dichloropropene	10	1.0	10.00	0	99.6	73	127				
Trichloroethene	10	1.0	10.00	0	101	79	123				
Trichlorofluoromethane [Freon-11]	11	1.0	10.00	0	111	65	141				
Vinyl acetate	10	5.0	10.00	0	101	54	146				
Vinyl chloride	11	1.0	10.00	0	114	58	137				
Xylene (total)	29	3.0	30.00	0	96.9	79	121				
Surr: 4-Bromofluorobenzene	58		60.00		95.9	85	114				
Surr: Dibromofluoromethane	55		60.00		91.4	80	119				
Surr: Toluene-d8	59		60.00		98.8	89	112				

Sample ID:	VOA10 MBLK 06211	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86803
Client ID:	PBW	Batch ID:	R86803	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684192

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	10	10									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86803

Sample ID:	VOA10 MBLK 06211	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86803
Client ID:	PBW	Batch ID:	R86803	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684192

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									UY
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	5.0	5.0									U
Styrene	1.0	1.0									U
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	45		50.00		90.3	85	114				
Surr: Dibromofluoromethane	43		50.00		86.1	80	119				
Surr: Toluene-d8	46		50.00		91.7	89	112				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86803

Sample ID:	1606422-002AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86803
Client ID:	STB-SB01-GWMS1	Batch ID:	R86803	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684742

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	11	1.0	10.00	0	114	78	124				
1,1,1-Trichloroethane	11	1.0	10.00	0	106	74	131				
1,1,2,2-Tetrachloroethane	11	1.0	10.00	0	106	71	121				
1,1,2-Trichloroethane	12	1.0	10.00	0	117	80	119				
1,1-Dichloroethane	11	2.0	10.00	0	109	77	125				
1,1-Dichloroethene	11	1.0	10.00	0	110	71	131				
1,2,3-Trichloropropane	8.6	1.0	10.00	0	85.7	73	122				
1,2-Dibromo-3-chloropropane	4.8	5.0	10.00	0	47.8	62	128				JQY
1,2-Dibromoethane	11	1.0	10.00	0	112	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	108	73	128				
1,2-Dichloropropane	12	1.0	10.00	0	121	78	122				
2-Butanone [MEK]	29	10	10.00	19.05	98.6	56	143				
2-Hexanone	10	2.0	10.00	0	101	57	139				
Acetone	21	10	10.00	13.15	79.2	39	160				
Benzene	11	1.0	10.00	0	106	79	120				
Bromodichloromethane	12	1.0	10.00	0	125	79	125				
Bromoform	7.2	1.0	10.00	0	72.4	66	130				
Carbon disulfide	11	1.0	10.00	1.010	100	64	133				
Carbon tetrachloride	11	1.0	10.00	0	111	72	136				
Chlorobenzene	11	1.0	10.00	0	111	82	118				
Chlorodibromomethane	11	1.0	10.00	0	113	74	126				Y
Chloroethane	13	2.0	10.00	0	128	60	138				
Chloroform	11	1.0	10.00	0	105	79	124				
Chloromethane	10	1.0	10.00	0	102	50	139				
cis-1,2-Dichloroethene	11	1.0	10.00	0	110	78	123				
cis-1,3-Dichloropropene	10	1.0	10.00	0	104	75	124				
Dichlorodifluoromethane [Freon-12]	11	1.0	10.00	0	108	32	152				
Ethylbenzene	11	1.0	10.00	0	110	79	121				
Methylene chloride	12	5.0	10.00	0	125	74	124				Q
Styrene	11	1.0	10.00	0	112	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86803

Sample ID: **1606422-002AMS** Samp Type: **MS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/21/2016** RunNo: **86803**

Client ID: **STB-SB01-GWMS1** Batch ID: **R86803** TestNo: **SW8260B** Analysis Date: **6/21/2016** SeqNo: **1684742**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	11	1.0	10.00	0	112	74	129				
Toluene	13	1.0	10.00	0	126	80	121				Q
trans-1,2-Dichloroethene	11	1.0	10.00	0	115	75	124				
trans-1,3-Dichloropropene	11	1.0	10.00	0	106	73	127				
Trichloroethene	12	1.0	10.00	0	116	79	123				
Trichlorofluoromethane [Freon-11]	12	1.0	10.00	0	124	65	141				
Vinyl acetate	11	5.0	10.00	0	112	54	146				
Vinyl chloride	12	1.0	10.00	0	122	58	137				
Xylene (total)	33	3.0	30.00	0	111	79	121				
Surr: 4-Bromofluorobenzene	62		60.00		104	85	114				
Surr: Dibromofluoromethane	54		60.00		89.8	80	119				
Surr: Toluene-d8	62		60.00		103	89	112				

Sample ID: **1606422-002AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/21/2016** RunNo: **86803**

Client ID: **STB-SB01-GWSD1** Batch ID: **R86803** TestNo: **SW8260B** Analysis Date: **6/21/2016** SeqNo: **1684782**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	11	1.0	10.00	0	110	78	124	11.44	3.83	25	
1,1,1-Trichloroethane	9.9	1.0	10.00	0	99.0	74	131	10.55	6.36	25	
1,1,2,2-Tetrachloroethane	9.6	1.0	10.00	0	95.9	71	121	10.60	10.0	25	
1,1,2-Trichloroethane	11	1.0	10.00	0	113	80	119	11.66	3.05	25	
1,1-Dichloroethane	10	2.0	10.00	0	104	77	125	10.90	4.50	25	
1,1-Dichloroethene	10	1.0	10.00	0	102	71	131	11.03	7.92	25	
1,2,3-Trichloropropane	9.3	1.0	10.00	0	92.9	73	122	8.570	8.06	25	
1,2-Dibromo-3-chloropropane	6.0	5.0	10.00	0	59.5	62	128	4.780	21.8	25	QY
1,2-Dibromoethane	10	1.0	10.00	0	100	77	121	11.15	10.8	25	
1,2-Dichloroethane	11	1.0	10.00	0	105	73	128	10.79	2.53	25	
1,2-Dichloropropane	12	1.0	10.00	0	118	78	122	12.08	2.68	25	
2-Butanone [MEK]	29	10	10.00	19.05	97.7	56	143	28.91	0.312	25	
2-Hexanone	11	2.0	10.00	0	107	57	139	10.05	6.36	25	
Acetone	23	10	10.00	13.15	93.9	39	160	21.07	6.74	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86803

Sample ID:	1606422-002AMSD	Samp Type:	MSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86803
Client ID:	STB-SB01-GWSD1	Batch ID:	R86803	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684782

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	9.8	1.0	10.00	0	98.2	79	120	10.58	7.45	25	
Bromodichloromethane	12	1.0	10.00	0	116	79	125	12.49	7.65	25	
Bromoform	7.6	1.0	10.00	0	75.9	66	130	7.240	4.72	25	
Carbon disulfide	11	1.0	10.00	1.010	97.4	64	133	11.04	2.66	25	
Carbon tetrachloride	11	1.0	10.00	0	105	72	136	11.10	5.27	25	
Chlorobenzene	9.8	1.0	10.00	0	98.0	82	118	11.07	12.2	25	
Chlorodibromomethane	11	1.0	10.00	0	108	74	126	11.30	4.62	25	Y
Chloroethane	12	2.0	10.00	0	123	60	138	12.80	4.07	25	
Chloroform	10	1.0	10.00	0	99.6	79	124	10.52	5.47	25	
Chloromethane	9.6	1.0	10.00	0	96.0	50	139	10.18	5.86	25	
cis-1,2-Dichloroethene	10	1.0	10.00	0	102	78	123	10.95	6.90	25	
cis-1,3-Dichloropropene	9.6	1.0	10.00	0	96.5	75	124	10.45	7.96	25	
Dichlorodifluoromethane [Freon-12]	11	1.0	10.00	0	109	32	152	10.85	0.0921	25	
Ethylbenzene	10	1.0	10.00	0	101	79	121	10.95	8.47	25	
Methylene chloride	12	5.0	10.00	0	116	74	124	12.46	7.41	25	
Styrene	10	1.0	10.00	0	103	78	123	11.23	8.83	25	
Tetrachloroethene	11	1.0	10.00	0	108	74	129	11.20	3.82	25	
Toluene	12	1.0	10.00	0	120	80	121	12.61	5.12	25	
trans-1,2-Dichloroethene	11	1.0	10.00	0	111	75	124	11.47	3.28	25	
trans-1,3-Dichloropropene	10	1.0	10.00	0	100	73	127	10.65	6.00	25	
Trichloroethene	11	1.0	10.00	0	108	79	123	11.59	7.15	25	
Trichlorofluoromethane [Freon-11]	12	1.0	10.00	0	122	65	141	12.39	1.30	25	
Vinyl acetate	10	5.0	10.00	0	105	54	146	11.24	7.19	25	
Vinyl chloride	12	1.0	10.00	0	120	58	137	12.23	1.73	25	
Xylene (total)	31	3.0	30.00	0	103	79	121	33.19	7.41	25	
Surr: 4-Bromofluorobenzene	59		60.00		98.4	85	114		0	25	
Surr: Dibromofluoromethane	54		60.00		90.2	80	119		0	25	
Surr: Toluene-d8	61		60.00		101	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86803

Sample ID:	1606422-008AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86803
Client ID:	WDS-SB21-GWMS1	Batch ID:	R86803	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684786

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	11	1.0	10.00	0	107	78	124				
1,1,1-Trichloroethane	9.8	1.0	10.00	0	98.5	74	131				
1,1,2,2-Tetrachloroethane	9.9	1.0	10.00	0	99.3	71	121				
1,1,2-Trichloroethane	11	1.0	10.00	0	111	80	119				
1,1-Dichloroethane	10	2.0	10.00	0	99.5	77	125				
1,1-Dichloroethene	10	1.0	10.00	0	101	71	131				
1,2,3-Trichloropropane	9.3	1.0	10.00	0	93.4	73	122				
1,2-Dibromo-3-chloropropane	7.1	5.0	10.00	0	71.2	62	128				Y
1,2-Dibromoethane	10	1.0	10.00	0	105	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	105	73	128				
1,2-Dichloropropane	11	1.0	10.00	0	110	78	122				
2-Butanone [MEK]	12	10	10.00	0	122	56	143				
2-Hexanone	10	2.0	10.00	0	101	57	139				
Acetone	14	10	10.00	2.530	114	39	160				
Benzene	10	1.0	10.00	0	100	79	120				
Bromodichloromethane	12	1.0	10.00	0	116	79	125				
Bromoform	7.9	1.0	10.00	0	78.7	66	130				
Carbon disulfide	9.8	1.0	10.00	0	98.0	64	133				
Carbon tetrachloride	11	1.0	10.00	0	108	72	136				
Chlorobenzene	10	1.0	10.00	0	102	82	118				
Chlorodibromomethane	11	1.0	10.00	0	115	74	126				Y
Chloroethane	13	2.0	10.00	0	125	60	138				
Chloroform	10	1.0	10.00	0	102	79	124				
Chloromethane	10	1.0	10.00	0	101	50	139				
cis-1,2-Dichloroethene	10	1.0	10.00	0	103	78	123				
cis-1,3-Dichloropropene	9.8	1.0	10.00	0	98.4	75	124				
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	104	32	152				
Ethylbenzene	9.9	1.0	10.00	0	99.3	79	121				
Methylene chloride	12	5.0	10.00	0	122	74	124				
Styrene	10	1.0	10.00	0	103	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86803

Sample ID: **1606422-008AMS** Samp Type: **MS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/21/2016** RunNo: **86803**

Client ID: **WDS-SB21-GWMS1** Batch ID: **R86803** TestNo: **SW8260B** Analysis Date: **6/21/2016** SeqNo: **1684786**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	11	1.0	10.00	0	106	74	129				
Toluene	12	1.0	10.00	0	118	80	121				
trans-1,2-Dichloroethene	11	1.0	10.00	0	108	75	124				
trans-1,3-Dichloropropene	10	1.0	10.00	0	101	73	127				
Trichloroethene	11	1.0	10.00	0	108	79	123				
Trichlorofluoromethane [Freon-11]	12	1.0	10.00	0	118	65	141				
Vinyl acetate	9.9	5.0	10.00	0	99.1	54	146				
Vinyl chloride	12	1.0	10.00	0	116	58	137				
Xylene (total)	30	3.0	30.00	0	100	79	121				
Surr: 4-Bromofluorobenzene	60		60.00		100	85	114				
Surr: Dibromofluoromethane	53		60.00		88.7	80	119				
Surr: Toluene-d8	60		60.00		100	89	112				

Sample ID: **1606422-008AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/21/2016** RunNo: **86803**

Client ID: **WDS-SB21-GWSD1** Batch ID: **R86803** TestNo: **SW8260B** Analysis Date: **6/21/2016** SeqNo: **1684929**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.9	1.0	10.00	0	99.4	78	124	10.71	7.46	25	
1,1,1-Trichloroethane	10	1.0	10.00	0	101	74	131	9.850	2.11	25	
1,1,2,2-Tetrachloroethane	9.4	1.0	10.00	0	94.3	71	121	9.930	5.17	25	
1,1,2-Trichloroethane	11	1.0	10.00	0	107	80	119	11.06	3.50	25	
1,1-Dichloroethane	9.9	2.0	10.00	0	99.1	77	125	9.950	0.403	25	
1,1-Dichloroethene	9.8	1.0	10.00	0	98.0	71	131	10.10	3.02	25	
1,2,3-Trichloropropane	8.4	1.0	10.00	0	83.6	73	122	9.340	11.1	25	
1,2-Dibromo-3-chloropropane	5.7	5.0	10.00	0	57.3	62	128	7.120	21.6	25	QY
1,2-Dibromoethane	10	1.0	10.00	0	105	77	121	10.49	0	25	
1,2-Dichloroethane	9.7	1.0	10.00	0	97.1	73	128	10.52	8.01	25	
1,2-Dichloropropane	11	1.0	10.00	0	110	78	122	11.04	0.545	25	
2-Butanone [MEK]	10	10	10.00	0	100	56	143	12.15	19.3	25	
2-Hexanone	9.1	2.0	10.00	0	90.8	57	139	10.10	10.6	25	
Acetone	11	10	10.00	2.530	81.6	39	160	13.98	26.7	25	R

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86803

Sample ID: **1606422-008AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/21/2016** RunNo: **86803**

Client ID: **WDS-SB21-GWSD1** Batch ID: **R86803** TestNo: **SW8260B** Analysis Date: **6/21/2016** SeqNo: **1684929**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	9.3	1.0	10.00	0	92.9	79	120	10.01	7.46	25	
Bromodichloromethane	11	1.0	10.00	0	112	79	125	11.63	3.95	25	
Bromoform	7.1	1.0	10.00	0	70.9	66	130	7.870	10.4	25	
Carbon disulfide	9.8	1.0	10.00	0	97.9	64	133	9.800	0.102	25	
Carbon tetrachloride	10	1.0	10.00	0	103	72	136	10.78	4.26	25	
Chlorobenzene	9.7	1.0	10.00	0	97.3	82	118	10.21	4.81	25	
Chlorodibromomethane	11	1.0	10.00	0	110	74	126	11.48	4.36	25	Y
Chloroethane	12	2.0	10.00	0	121	60	138	12.52	3.08	25	
Chloroform	10	1.0	10.00	0	101	79	124	10.16	0.890	25	
Chloromethane	9.7	1.0	10.00	0	96.6	50	139	10.12	4.65	25	
cis-1,2-Dichloroethene	9.7	1.0	10.00	0	96.9	78	123	10.30	6.10	25	
cis-1,3-Dichloropropene	9.0	1.0	10.00	0	90.3	75	124	9.840	8.59	25	
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	101	32	152	10.35	2.15	25	
Ethylbenzene	9.3	1.0	10.00	0	93.1	79	121	9.930	6.44	25	
Methylene chloride	11	5.0	10.00	0	114	74	124	12.21	7.04	25	
Styrene	9.1	1.0	10.00	0	90.9	78	123	10.30	12.5	25	
Tetrachloroethene	10	1.0	10.00	0	101	74	129	10.55	3.96	25	
Toluene	12	1.0	10.00	0	116	80	121	11.83	2.22	25	
trans-1,2-Dichloroethene	10	1.0	10.00	0	105	75	124	10.84	3.19	25	
trans-1,3-Dichloropropene	9.0	1.0	10.00	0	90.2	73	127	10.08	11.1	25	
Trichloroethene	11	1.0	10.00	0	106	79	123	10.84	2.43	25	
Trichlorofluoromethane [Freon-11]	12	1.0	10.00	0	116	65	141	11.84	1.79	25	
Vinyl acetate	8.6	5.0	10.00	0	86.2	54	146	9.910	13.9	25	
Vinyl chloride	11	1.0	10.00	0	113	58	137	11.58	2.71	25	
Xylene (total)	29	3.0	30.00	0	95.2	79	121	30.13	5.35	25	
Surr: 4-Bromofluorobenzene	59		60.00		98.8	85	114		0	25	
Surr: Dibromofluoromethane	52		60.00		87.3	80	119		0	25	
Surr: Toluene-d8	60		60.00		100	89	112		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606422

Date Reported: 8/26/2016
Revision v5

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606422

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/2/16-03
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
Field QC	—	—	TB	1	TB-GW-061016-01	06/10/16	1000	WQ	3	024	3										1	
STB-SB01	—	—	N	1	STB-SB01-GW		1450	WG	7		3		3		4						2	
STB-SB01	—	—	MS	1	STB-SB01-GWMS		1450	WG	7		3		3		4						2	STB-SB01-GWM
STB-SB01	—	—	SD	1	STB-SB01-GWMSD		1450	WG	3		3		3		4						2	additional
STB-SB03	—	—	N	1	STB-SB03-GW		1620	WG	3		3		3		4						3	containers in
STB																						cooler #025

1. Relinquished By / Company	Amanda Martin AECOM	Date 06/13/16	Time 1200	1. Received By / Company	Transfer to FedEx 06/13/16	Date →	Time 1300
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date 6/14/16	Time 09:41

Comments: TOCs - STB

Shipment Method/Airbill No. 810302025876

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLE

Thor

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/216-04
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
STB-SB01	—	—	SD	1	STB-SB01-GW MSD	06/10/16	1450	WG	4	025					4							3 additional containers for VOCs in cooler #025
STB-SB03	—	—	N	1	STB-SB03-GW	06/10/16	1620	WG	4	025					4							
F100C-SB01	—	—	N	1	F100C-SB01-GW	6/12/16	0930	WG	1										1		4	
F100C-SB02	—	—	N	1	F100C-SB02-GW	6/12/16	0915	WG	1	↓									1		3	
2010-SB02	—	—	N	1	2010-SB02-GW	6/12/16	1000	WG	1	↓									1		6	

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/13/16	Time: 1300	1. Received By / Company: Transfer to FedEx	Date: 6/13/16	Time: 1300
2. Relinquished By / Company	Date	Time	2. Received By / Company: A Flores RTI	Date: 6/14/16	Time: 941
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: AOCs - STB, F100C, 2010

Shipment Method/Airbill No.: 810302615865

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Big Red 4

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	061216-09
Address	Point of Contact / Phone No.	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / State / Zip Code	Site Contact / Phone No.	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
Field QC	—	—	TB	1	TB-GW-061216-01	6/12/16	0810	WQ	3	030	3										7	
WDS-SB21	—	—	N	1	WDS-SB21-GW		1130	WG	10		3			4			2	1			4	
↓	—	—	MS	1	WDS-SB21-GWMS		1130	WG	3		3			4			2	1			5	
↓	—	—	SD	1	WDS-SB21-GWMSD		1130	WG	3		3			4			2	1			8	
WDS-SB20	—	—	N	1	WDS-SB20-GW	↓	1450	WG	3	↓	3				2		2	1			9	

1. Relinquished By / Company: Amanda Martin AECOM	Date 6/13/14	Time 1500	1. Received By / Company Transfer to FedEx	Date 6/13/16	Time 1500
2. Relinquished By / Company	Date	Time	2. Received By / Company Victoria Gordon	Date 6/14/16	Time 941
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5810

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLE

Shamrock

original

1600422

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/2/16-03
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
Field QC	—	—	TB	1	TB-GW-060116-01	06/10/16	1000	WQ	3	024	3											
STB-SB01	—	—	N	1	STB-SB01-GW		1450	WG	7		3		3		4							
STB-SB01	—	—	MS	1	STB-SB01-GWMS		1450	WG	7		3		3		4							STB-SB01-GWMS
STB-SB01	—	—	SD	1	STB-SB01-GWMSD		1450	WG	3		3		3									additional
STB-SB03	—	—	N	1	STB-SB03-GW		1620	WG	3		3		3									containers in
~~STB~~																						cooler #025

1. Relinquished By / Company	Amanda Martin AECOM	Date 06/13/16	Time 1300	1. Received By / Company	Transfer to FedEx 06/13/16	Date →	Time 1300
2. Relinquished By / Company		Date	Time	2. Received By / Company	A Flores KA / RTI	Date 6/14/16	Time 741
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments: VOCs - STB

Shipment Method/Airbill No.: 8125020258746

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Thor

Original
160422

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/216-04
Batch May16

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
STB-SB01	—	—	SD	1	STB-SB01-GW MSD	06/10/16	1450	WG	4	025					4						3 additional Containers for VOCs in cooler #024
STB-SB03	—	—	N	1	STB-SB03-GW	06/10/16	1620	WG	4	025					4						
F100C-SB01	—	—	N	1	F100C-SB01-GW	6/12/16	0930	WG	1										1		
F100C-SB02	—	—	N	1	F100C-SB02-GW	6/12/16	0915	WG	1										1		
2010-SB02	—	—	N	1	2010-SB02-GW	6/12/16	1000	WG	1										1		

1. Relinquished By / Company: Amanda Martin / AECOM	Date: 6/13/16	Time: 1500	1. Received By / Company: Transfer to FedEx	Date: 6/13/16	Time: 1500
2. Relinquished By / Company	Date	Time	2. Received By / Company: A Flores / KG / RM	Date: 6/14/16	Time: 941
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: AOCs - STB, F100C, 2010

Shipment Method/Airbill No.: 8105 0202 5865

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Big Red 4

Original
1606423

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	061216-09
Address	Point of Contact / Phone No.	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / State / Zip Code	Site Contact / Phone No.	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
Field QC	—	—	TB	1	TB-GW-061216-01	6/12/16	0810	WQ	3	030	3										
WDS-SB21	—	—	N	1	WDS-SB21-GW		1130	WG	10		3			4			2	1			
↓	—	—	MS	1	WDS-SB21-GWMS		1130	WG	3		3										
↓	—	—	SD	1	WDS-SB21-GWMSD		1130	WG	3		3										
WDS-SB20	—	—	N	1	WDS-SB20-GW	↓	1450	WG	3	↓	3										

1. Relinquished By / Company: Amanda Martin AECOM	Date 6/13/16	Time 1300	1. Received By / Company: Transfer to FedEx	Date 6/13/16	Time 1300
2. Relinquished By / Company	Date	Time	2. Received By / Company: A Flores KS / RTI	Date 6/14/16	Time 941
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5810

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Shamrock 1

Original 1
160622

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/12/16-10
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB21	–	–	MS	1	WDS-SB21-GWMS ~~(dup)~~		1130	WG	7	031				4			2		1			Date: 6/12/16
WDS-SB20	–	–	N	1	WDS-SB20-GW	6/12/16	1450	WG	2								2					more in cooler #031

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time	Comments	Shipment Method/Airbill No.
Amanda Martin AECOM	6/13/16	1300	Transfer to FedEx	6/13/16	1300		8103 0202 5800
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time		
			A Hobbs / RTI	6/14/16	941		
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time		

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

RTI-11

Original

1606422

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/12/16-11
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB21	–	–	MS	1	WDS-SB21-GWMSD	6/12/16	1130	WG	7	032					4		2	1				
WDS-SB20	–	–	N	1	WDS-SB20-GW	6/12/16	1450	WG	3	032					2			1				could only collect 2 L for SVOCs
																						no temp blank included - out of temp blanks (take temp from metals bottle??)

1. Relinquished By / Company	Amanda / AECOM	Date 6/13/16	Time 1500	1. Received By / Company	Transfer to FedEx	Date 6/13/16	Time 1500
2. Relinquished By / Company		Date	Time	2. Received By / Company	H Flores / RG / RT	Date 6/14/16	Time 0741
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5795

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

RTI-22

Cooler: Shamrock 1

Temp Blank 1.4°C

Align Open End of FedEx Pouch Here

Cooler: Bus Red 4 Temp Blank: 2.3°C

FedEx Express

8103 0202 5865

0215

1 From

Date 6/13/16

Sender's Name Amanda Hahn Phone

Company

Address

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name

Company

Address

Address

City

4 Express Package Service

Packages up to 150 lbs.

Next Business Day

2nd or 3 Business Days

FedEx First Overnight

FedEx Priority Overnight

FedEx 2Day

FedEx Standard Overnight

FedEx Express Saver

025

5 Packaging

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

fedex.com

CUSTODY SEAL

DATE 6/13/16

SIGNATURE

QEC

Quality Environmental Containers

800-255-3950 • 304-255-3900

Third Party Credit Card Cash/Check

Total Packages Total Weight

8103 0202 5865

FedEx

TRK# 0215 8103 0202 5865

TUE - 14 JUN AA

STANDARD OVERNIGHT

48150

MI-US

DTW

ET CFAA

Jen End of FedEx Pouch H

438

Cooler: Thor Temp Blank: 2.6°C

Align Open End of FedEx Pouch Here

CUSTODY SEAL
DATE 6/13/16
SIGNATURE

QEC Quality Environmental Container
800-255-3950 • 304-255-3900

Cooler ID RT1-22 #032 Sample temp Range 2.8-5.8°C
Fed Ex #: 810302025595

CofC ID 061216-11

#022
Cooler ID: Paradox 2
tracking # 8103 0202 5957
CofC ID 061216-01
Cooler Temp Blank 2.2°C

CUSTODY SEAL
DATE 6/13/16
SIGNATURE

QEC Quality Environmental Containers
800-255-3950 • 304-255-3900

#023 CofC ID: ~~CH~~061216-02
Cooler ID Big Blue 2
tracking# 810302025887
Cooler temp Blank 1.2°C

CUSTODY SEAL
DATE 6/13/16
SIGNATURE

QEC Quality Environmental Containers
800-255-3950 • 304-255-3900

#031
Cooler ID: RTI-11
CoC ID 06126-10
FedEx 8103 0202 5800
Cooler Temp Blank 0.6°C

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Monday, August 29, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606425

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606425-001A	BG03-SS01-01		6/10/2016 12:50 PM	6/14/2016 9:41 AM	Soil
1606425-001B	BG03-SS01-01		6/10/2016 12:50 PM	6/14/2016 9:41 AM	Soil
1606425-002A	BG03-SB01-05		6/10/2016 12:55 PM	6/14/2016 9:41 AM	Soil
1606425-002B	BG03-SB01-05		6/10/2016 12:55 PM	6/14/2016 9:41 AM	Soil
1606425-003A	BG03-SB01-10		6/10/2016 1:00 PM	6/14/2016 9:41 AM	Soil
1606425-003B	BG03-SB01-10		6/10/2016 1:00 PM	6/14/2016 9:41 AM	Soil
1606425-004A	BG03-SS02-01		6/10/2016 11:45 AM	6/14/2016 9:41 AM	Soil
1606425-004B	BG03-SS02-01		6/10/2016 11:45 AM	6/14/2016 9:41 AM	Soil
1606425-005A	BG03-SB02-05		6/10/2016 11:50 AM	6/14/2016 9:41 AM	Soil
1606425-005B	BG03-SB02-05		6/10/2016 11:50 AM	6/14/2016 9:41 AM	Soil
1606425-006A	BG03-SB02-10		6/10/2016 11:55 AM	6/14/2016 9:41 AM	Soil
1606425-006B	BG03-SB02-10		6/10/2016 11:55 AM	6/14/2016 9:41 AM	Soil
1606425-007A	BG03-SS03-01		6/10/2016 12:00 PM	6/14/2016 9:41 AM	Soil
1606425-007B	BG03-SS03-01		6/10/2016 12:00 PM	6/14/2016 9:41 AM	Soil
1606425-008A	BG03-SB03-05		6/10/2016 12:05 PM	6/14/2016 9:41 AM	Soil
1606425-008B	BG03-SB03-05		6/10/2016 12:05 PM	6/14/2016 9:41 AM	Soil
1606425-009A	BG03-SB03-10		6/10/2016 12:10 PM	6/14/2016 9:41 AM	Soil
1606425-009B	BG03-SB03-10		6/10/2016 12:10 PM	6/14/2016 9:41 AM	Soil
1606425-010A	BG03-SS04-01		6/10/2016 12:25 PM	6/14/2016 9:41 AM	Soil
1606425-010B	BG03-SS04-01		6/10/2016 12:25 PM	6/14/2016 9:41 AM	Soil
1606425-011A	BG03-SB04-04		6/10/2016 12:35 PM	6/14/2016 9:41 AM	Soil
1606425-011B	BG03-SB04-04		6/10/2016 12:35 PM	6/14/2016 9:41 AM	Soil
1606425-012A	BG03-SB04-05		6/10/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606425-012B	BG03-SB04-05		6/10/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606425-013A	BG03-SB04-05 DUP		6/10/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606425-013B	BG03-SB04-05 DUP		6/10/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606425-014A	BG03-SS05-01		6/10/2016 11:35 AM	6/14/2016 9:41 AM	Soil
1606425-014B	BG03-SS05-01		6/10/2016 11:35 AM	6/14/2016 9:41 AM	Soil
1606425-015A	BG03-SS06-01		6/10/2016 12:40 PM	6/14/2016 9:41 AM	Soil
1606425-015B	BG03-SS06-01		6/10/2016 12:40 PM	6/14/2016 9:41 AM	Soil
1606425-016A	BG03-SS07-01		6/10/2016 1:05 PM	6/14/2016 9:41 AM	Soil
1606425-016B	BG03-SS07-01		6/10/2016 1:05 PM	6/14/2016 9:41 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical Report revised 8/11/2016: Compound 3,3´-Dichlorobenzidine was missing in the SVOC analysis. Also Benzoic Acid was missing in the QC Summary report for the LCS, MS and MSD.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_6010S, Analytical Run No 87363, Batch ID 40217:
Sample 1606425-005BMS: Recoveries for several analytes exceeded control limits. Suspected matrix interference for Selenium.
Sample 1606425-005BMSD: Recoveries for several analytes exceeded control limits. RPD results for Manganese exceeded control limits. Suspected matrix interference for Selenium.

Analytical Comments for Test SW_6010S, Analytical Run No 87363, Batch ID 40217:
Samples 1606506-006C MS/MSD: Spike recoveries for multiple analytes were outside the control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86814, Batch ID 40191:
Sample 1606425-001A: Surrogates recovery for Terphenyl-d14 exceeded control limit.
Sample 1606425-005A MS/MSD: Spike recoveries for 3,3´-Dichlorobenzidine and Benzoic Acid were outside the control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86814, Batch ID R86814:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 062016: CCV results for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Benzoic acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine, and Pentachlorophenol exceeded control limit.
Sample CCVE S8 062016: Ending CCV results for Benzoic acid exceeded control limit.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86838, Batch ID 40191:
Sample 1606425-010A: Surrogates recovery for Terphenyl-d14
Sample 1606425-016A: Low surrogate recoveries were observed due sample matrix. Re-analysis confirms the 1st analysis.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86838, Batch ID R86838:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 062116: CCV results for 2,4-Dinitrophenol, Benzoic acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine, and Pentachlorophenol exceeded control limit.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86878, Batch ID 40191:
Sample 1606425-016A: Multiple failure of surrogates.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86878, Batch ID R86878:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 062216: CCV results for 4-Nitrophenol, Benzoic acid, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl) ether, N-Nitrosodimethylamine, and Bis(2-chloroethyl) ether exceeded control limit.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87637, Batch ID 40193:
Sample LCS-40193: LCS results for Benz(a)anthracene, Fluorene Phenanthrene and Pyrene exceeded QC limits.
Sample 1606425-015A: Surrogate for Nitrobenzene-d5 was outside the control limits.
Sample 1606425-015A MS: Spike recoveries for 1-Methylnaphthalene, 2-Methylnaphthalene were outside the control limits. Surrogate Nitrobenzene-d5 was outside the control limits.
Sample 1606425-015A MSD: Spike recovery for Phenanthrene was outside the control limits. RPD for 1-Methylnaphthalene, 2-Methylnaphthalene were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87679, Batch ID 40193:
Sample 1606425-015A: Sample required multiple dilutions. One of the dilutions was performed three hours past the recommended hold time.

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606425-001	**Matrix:**	Soil
Client Sample ID:	BG03-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	14,000		55	150	370	mg/Kg-dry	100	7/13/2016 5:19 PM
Antimony	3.3		0.28	0.37	0.73	mg/Kg-dry	1	7/13/2016 3:38 PM
Arsenic	2.3		0.53	0.73	1.5	mg/Kg-dry	1	7/13/2016 3:38 PM
Barium	24		0.22	3.7	7.3	mg/Kg-dry	1	7/13/2016 3:38 PM
Beryllium	0.057	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/13/2016 3:38 PM
Cadmium	0.037	U	0.024	0.037	0.18	mg/Kg-dry	1	7/13/2016 3:38 PM
Calcium	430		2.2	7.3	37	mg/Kg-dry	1	7/13/2016 3:38 PM
Chromium	17		0.060	0.29	0.37	mg/Kg-dry	1	7/13/2016 3:38 PM
Cobalt	3.3		0.066	0.18	0.73	mg/Kg-dry	1	7/13/2016 3:38 PM
Copper	30		0.31	0.73	3.7	mg/Kg-dry	1	7/13/2016 3:38 PM
Iron	14,000		23	37	110	mg/Kg-dry	10	7/13/2016 4:36 PM
Lead	4.0		0.46	0.73	3.7	mg/Kg-dry	1	7/13/2016 3:38 PM
Magnesium	1,400		2.6	3.7	37	mg/Kg-dry	1	7/13/2016 3:38 PM
Manganese	100		0.14	0.18	0.73	mg/Kg-dry	1	7/13/2016 3:38 PM
Nickel	8.8		0.21	0.73	3.7	mg/Kg-dry	1	7/13/2016 3:38 PM
Potassium	470		1.7	7.3	15	mg/Kg-dry	1	7/13/2016 3:38 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/13/2016 3:38 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/13/2016 3:38 PM
Sodium	57		1.5	3.7	37	mg/Kg-dry	1	7/13/2016 3:38 PM
Vanadium	22		0.093	0.73	1.8	mg/Kg-dry	1	7/13/2016 3:38 PM
Zinc	14		0.28	0.37	3.7	mg/Kg-dry	1	7/13/2016 3:38 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.076	J	0.036	0.037	0.15	mg/Kg-dry	10	7/15/2016 3:16 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
1,2-Dichlorobenzene	0.019	U	0.0082	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
1,3-Dichlorobenzene	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
1,4-Dichlorobenzene	0.019	U	0.0061	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
2,4-Dichlorophenol	0.095	U	0.033	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
2,4-Dimethyl phenol	0.095	U	0.036	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.95	mg/Kg-dry	1	6/20/2016 8:47 PM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
2-Chlorophenol	0.095	U	0.040	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
2-Methylphenol (o-Cresol)	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
2-Nitroaniline	0.019	U	0.0093	0.019	0.37	mg/Kg-dry	1	6/20/2016 8:47 PM
2-Nitrophenol	0.095	U	0.047	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
3,3´-Dichlorobenzidine	0.76	U	0.49	0.76	1.1	mg/Kg-dry	1	6/20/2016 8:47 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	6/20/2016 8:47 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 12:50:00 PM
Project: Camp Hero
Lab ID: 1606425-001 **Matrix:** Soil
Client Sample ID: BG03-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.095	U	0.068	0.095	0.37	mg/Kg-dry	1	6/20/2016 8:47 PM
4,6-Dinitro-2-methylphenol	0.095	UY	0.055	0.095	0.37	mg/Kg-dry	1	6/20/2016 8:47 PM
4-Bromophenyl phenyl ether	0.095	U	0.049	0.095	0.23	mg/Kg-dry	1	6/20/2016 8:47 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
4-Chloroaniline [p-Chloroaniline]	0.095	U	0.029	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
4-Nitroaniline	0.095	U	0.027	0.095	0.37	mg/Kg-dry	1	6/20/2016 8:47 PM
4-Nitrophenol	0.38	U	0.27	0.38	0.95	mg/Kg-dry	1	6/20/2016 8:47 PM
Benzoic acid	0.27	JYZ	0.15	0.38	1.1	mg/Kg-dry	1	6/20/2016 8:47 PM
Benzyl alcohol	0.019	U	0.0092	0.019	0.75	mg/Kg-dry	1	6/20/2016 8:47 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0087	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.034	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Butyl benzyl phthalate	0.038	U	0.022	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Di-n-butyl phthalate	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Di-n-octyl phthalate	0.022	J	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Dibenzofuran	0.019	U	0.0097	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.057	mg/Kg-dry	1	6/20/2016 8:47 PM
Hexachloroethane	0.019	U	0.0088	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Isophorone	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
N-Nitrosodimethylamine	0.019	UY	0.0093	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
N-Nitrosodiphenylamine	0.019	U	0.0092	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Pentachlorophenol	0.095	UY	0.072	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Phenol	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	6/20/2016 8:47 PM
Surr: 2,4,6-Tribromophenol	54.2			39-132		%Rec	1	6/20/2016 8:47 PM
Surr: 2-Fluorobiphenyl	47.3			44-115		%Rec	1	6/20/2016 8:47 PM
Surr: 2-Fluorophenol	42.4			35-115		%Rec	1	6/20/2016 8:47 PM
Surr: Nitrobenzene-d5	45.1			37-122		%Rec	1	6/20/2016 8:47 PM
Surr: Phenol-d5	43.1			33-122		%Rec	1	6/20/2016 8:47 PM
Surr: Terphenyl-d14	50.6	Q		54-127		%Rec	1	6/20/2016 8:47 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
2-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606425-001	**Matrix:**	Soil
Client Sample ID:	BG03-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00076	UQ	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Benzo(a)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Benzo(b)fluoranthene	0.0013		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Benzo(g,h,i)perylene	0.00083		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Benzo(k)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Chrysene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Fluoranthene	0.0015		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Fluorene	0.00076	UQ	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Indeno(1,2,3-cd)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Naphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Phenanthrene	0.0015	Q	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Pyrene	0.0015	Q	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 12:06 PM
Surr: 2-Fluorobiphenyl	77.0			46-115		%Rec	1	7/3/2016 12:06 PM
Surr: Nitrobenzene-d5	84.6			44-125		%Rec	1	7/3/2016 12:06 PM
Surr: Terphenyl-d14	96.8			58-133		%Rec	1	7/3/2016 12:06 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:55:00 PM
Project:	Camp Hero		
Lab ID:	1606425-002	**Matrix:**	Soil
Client Sample ID:	BG03-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	11,000		54	140	360	mg/Kg-dry	100	7/13/2016 5:20 PM
Antimony	3.9		0.27	0.36	0.72	mg/Kg-dry	1	7/13/2016 3:39 PM
Arsenic	2.2		0.52	0.72	1.4	mg/Kg-dry	1	7/13/2016 3:39 PM
Barium	38		0.21	3.6	7.2	mg/Kg-dry	1	7/13/2016 3:39 PM
Beryllium	0.096	J	0.0091	0.036	0.18	mg/Kg-dry	1	7/13/2016 3:39 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/13/2016 3:39 PM
Calcium	440		2.1	7.2	36	mg/Kg-dry	1	7/13/2016 3:39 PM
Chromium	17		0.059	0.29	0.36	mg/Kg-dry	1	7/13/2016 3:39 PM
Cobalt	3.7		0.065	0.18	0.72	mg/Kg-dry	1	7/13/2016 3:39 PM
Copper	33		0.30	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:39 PM
Iron	13,000		23	36	110	mg/Kg-dry	10	7/13/2016 4:37 PM
Lead	2.7	J	0.45	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:39 PM
Magnesium	2,600		25	36	360	mg/Kg-dry	10	7/13/2016 4:37 PM
Manganese	170		0.13	0.18	0.72	mg/Kg-dry	1	7/13/2016 3:39 PM
Nickel	8.8		0.20	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:39 PM
Potassium	1,700		1.7	7.2	14	mg/Kg-dry	1	7/13/2016 3:39 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/13/2016 3:39 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/13/2016 3:39 PM
Sodium	75		1.5	3.6	36	mg/Kg-dry	1	7/13/2016 3:39 PM
Vanadium	20		0.091	0.72	1.8	mg/Kg-dry	1	7/13/2016 3:39 PM
Zinc	17		0.28	0.36	3.6	mg/Kg-dry	1	7/13/2016 3:39 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.18		0.035	0.036	0.14	mg/Kg-dry	10	7/15/2016 3:17 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
2,4-Dichlorophenol	0.091	U	0.031	0.091	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
2,4-Dimethyl phenol	0.091	U	0.035	0.091	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.90	mg/Kg-dry	1	6/20/2016 9:11 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
2-Chlorophenol	0.091	U	0.038	0.091	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
2-Methylphenol (o-Cresol)	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
2-Nitroaniline	0.018	U	0.0088	0.018	0.35	mg/Kg-dry	1	6/20/2016 9:11 PM
2-Nitrophenol	0.091	U	0.045	0.091	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
3,3´-Dichlorobenzidine	0.73	U	0.46	0.73	1.1	mg/Kg-dry	1	6/20/2016 9:11 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/20/2016 9:11 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 12:55:00 PM
Project: Camp Hero
Lab ID: 1606425-002 **Matrix:** Soil
Client Sample ID: BG03-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.091	U	0.065	0.091	0.35	mg/Kg-dry	1	6/20/2016 9:11 PM
4,6-Dinitro-2-methylphenol	0.091	UY	0.052	0.091	0.35	mg/Kg-dry	1	6/20/2016 9:11 PM
4-Bromophenyl phenyl ether	0.091	U	0.046	0.091	0.22	mg/Kg-dry	1	6/20/2016 9:11 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
4-Chloroaniline [p-Chloroaniline]	0.091	U	0.027	0.091	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
4-Nitroaniline	0.091	U	0.026	0.091	0.35	mg/Kg-dry	1	6/20/2016 9:11 PM
4-Nitrophenol	0.36	U	0.26	0.36	0.90	mg/Kg-dry	1	6/20/2016 9:11 PM
Benzoic acid	0.36	UYZ	0.15	0.36	1.1	mg/Kg-dry	1	6/20/2016 9:11 PM
Benzyl alcohol	0.018	U	0.0087	0.018	0.72	mg/Kg-dry	1	6/20/2016 9:11 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0083	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Di-n-butyl phthalate	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.054	mg/Kg-dry	1	6/20/2016 9:11 PM
Hexachloroethane	0.018	U	0.0084	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
N-Nitrosodimethylamine	0.018	UY	0.0088	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
N-Nitrosodiphenylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Pentachlorophenol	0.091	UY	0.068	0.091	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Phenol	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	6/20/2016 9:11 PM
Surr: 2,4,6-Tribromophenol	70.2			39-132		%Rec	1	6/20/2016 9:11 PM
Surr: 2-Fluorobiphenyl	61.3			44-115		%Rec	1	6/20/2016 9:11 PM
Surr: 2-Fluorophenol	57.6			35-115		%Rec	1	6/20/2016 9:11 PM
Surr: Nitrobenzene-d5	60.0			37-122		%Rec	1	6/20/2016 9:11 PM
Surr: Phenol-d5	56.8			33-122		%Rec	1	6/20/2016 9:11 PM
Surr: Terphenyl-d14	66.5			54-127		%Rec	1	6/20/2016 9:11 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
2-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Acenaphthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Acenaphthylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:55:00 PM
Project:	Camp Hero		
Lab ID:	1606425-002	**Matrix:**	Soil
Client Sample ID:	BG03-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Benzo(a)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Benzo(b)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Benzo(g,h,i)perylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Benzo(k)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Chrysene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Dibenzo(a,h)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Fluorene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Indeno(1,2,3-cd)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Naphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Phenanthrene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Pyrene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 12:34 PM
Surr: 2-Fluorobiphenyl	77.7			46-115		%Rec	1	7/3/2016 12:34 PM
Surr: Nitrobenzene-d5	85.2			44-125		%Rec	1	7/3/2016 12:34 PM
Surr: Terphenyl-d14	98.9			58-133		%Rec	1	7/3/2016 12:34 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.3		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 1:00:00 PM
Project: Camp Hero
Lab ID: 1606425-003 **Matrix:** Soil
Client Sample ID: BG03-SB01-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,900		55	150	370	mg/Kg-dry	100	7/13/2016 5:22 PM
Antimony	2.3		0.28	0.37	0.74	mg/Kg-dry	1	7/13/2016 3:41 PM
Arsenic	3.0		0.53	0.74	1.5	mg/Kg-dry	1	7/13/2016 3:41 PM
Barium	25		0.22	3.7	7.4	mg/Kg-dry	1	7/13/2016 3:41 PM
Beryllium	0.10	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/13/2016 3:41 PM
Cadmium	0.037	U	0.024	0.037	0.18	mg/Kg-dry	1	7/13/2016 3:41 PM
Calcium	270		2.2	7.4	37	mg/Kg-dry	1	7/13/2016 3:41 PM
Chromium	11		0.061	0.29	0.37	mg/Kg-dry	1	7/13/2016 3:41 PM
Cobalt	2.3		0.066	0.18	0.74	mg/Kg-dry	1	7/13/2016 3:41 PM
Copper	28		0.31	0.74	3.7	mg/Kg-dry	1	7/13/2016 3:41 PM
Iron	12,000		23	37	110	mg/Kg-dry	10	7/13/2016 4:39 PM
Lead	2.8	J	0.46	0.74	3.7	mg/Kg-dry	1	7/13/2016 3:41 PM
Magnesium	1,000		2.6	3.7	37	mg/Kg-dry	1	7/13/2016 3:41 PM
Manganese	210		1.4	1.8	7.4	mg/Kg-dry	10	7/13/2016 4:39 PM
Nickel	4.3		0.21	0.74	3.7	mg/Kg-dry	1	7/13/2016 3:41 PM
Potassium	740		1.7	7.4	15	mg/Kg-dry	1	7/13/2016 3:41 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/13/2016 3:41 PM
Silver	0.18	U	0.060	0.18	0.74	mg/Kg-dry	1	7/13/2016 3:41 PM
Sodium	58		1.5	3.7	37	mg/Kg-dry	1	7/13/2016 3:41 PM
Vanadium	15		0.093	0.74	1.8	mg/Kg-dry	1	7/13/2016 3:41 PM
Zinc	11		0.28	0.37	3.7	mg/Kg-dry	1	7/13/2016 3:41 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.092	J	0.033	0.034	0.14	mg/Kg-dry	10	7/15/2016 4:46 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
1,2-Dichlorobenzene	0.018	U	0.0079	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
1,4-Dichlorobenzene	0.018	U	0.0059	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
2,4,6-Trichlorophenol	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
2,4-Dichlorophenol	0.092	U	0.031	0.092	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
2,4-Dimethyl phenol	0.092	U	0.035	0.092	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.91	mg/Kg-dry	1	6/20/2016 9:36 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
2-Chlorophenol	0.092	U	0.038	0.092	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
2-Methylphenol (o-Cresol)	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
2-Nitroaniline	0.018	U	0.0089	0.018	0.35	mg/Kg-dry	1	6/20/2016 9:36 PM
2-Nitrophenol	0.092	U	0.045	0.092	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
3,3´-Dichlorobenzidine	0.73	U	0.47	0.73	1.1	mg/Kg-dry	1	6/20/2016 9:36 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/20/2016 9:36 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 1:00:00 PM
Project: Camp Hero
Lab ID: 1606425-003 **Matrix:** Soil
Client Sample ID: BG03-SB01-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.092	U	0.065	0.092	0.35	mg/Kg-dry	1	6/20/2016 9:36 PM
4,6-Dinitro-2-methylphenol	0.092	UY	0.053	0.092	0.35	mg/Kg-dry	1	6/20/2016 9:36 PM
4-Bromophenyl phenyl ether	0.092	U	0.047	0.092	0.22	mg/Kg-dry	1	6/20/2016 9:36 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
4-Chloroaniline [p-Chloroaniline]	0.092	U	0.028	0.092	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
4-Nitroaniline	0.092	U	0.026	0.092	0.35	mg/Kg-dry	1	6/20/2016 9:36 PM
4-Nitrophenol	0.37	U	0.26	0.37	0.91	mg/Kg-dry	1	6/20/2016 9:36 PM
Benzoic acid	0.37	UYZ	0.15	0.37	1.1	mg/Kg-dry	1	6/20/2016 9:36 PM
Benzyl alcohol	0.018	U	0.0088	0.018	0.73	mg/Kg-dry	1	6/20/2016 9:36 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0084	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.032	0.037	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Carbazole	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Di-n-octyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Dibenzofuran	0.018	U	0.0093	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Hexachlorobenzene	0.018	U	0.0099	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	6/20/2016 9:36 PM
Hexachloroethane	0.018	U	0.0084	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Isophorone	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
N-Nitrosodimethylamine	0.018	UY	0.0089	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
N-Nitrosodiphenylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Nitrobenzene	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Pentachlorophenol	0.092	UY	0.069	0.092	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Phenol	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	6/20/2016 9:36 PM
Surr: 2,4,6-Tribromophenol	91.6			39-132		%Rec	1	6/20/2016 9:36 PM
Surr: 2-Fluorobiphenyl	77.7			44-115		%Rec	1	6/20/2016 9:36 PM
Surr: 2-Fluorophenol	71.7			35-115		%Rec	1	6/20/2016 9:36 PM
Surr: Nitrobenzene-d5	75.6			37-122		%Rec	1	6/20/2016 9:36 PM
Surr: Phenol-d5	72.5			33-122		%Rec	1	6/20/2016 9:36 PM
Surr: Terphenyl-d14	86.6			54-127		%Rec	1	6/20/2016 9:36 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
2-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Acenaphthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Acenaphthylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 1:00:00 PM
Project:	Camp Hero		
Lab ID:	1606425-003	**Matrix:**	Soil
Client Sample ID:	BG03-SB01-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Benzo(a)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Benzo(b)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Benzo(g,h,i)perylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Benzo(k)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Chrysene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Dibenzo(a,h)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Fluorene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Indeno(1,2,3-cd)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Naphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Phenanthrene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Pyrene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 1:03 PM
Surr: 2-Fluorobiphenyl	79.0			46-115		%Rec	1	7/3/2016 1:03 PM
Surr: Nitrobenzene-d5	89.3			44-125		%Rec	1	7/3/2016 1:03 PM
Surr: Terphenyl-d14	105			58-133		%Rec	1	7/3/2016 1:03 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.6		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606425-004	**Matrix:**	Soil
Client Sample ID:	BG03-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	17,000		59	160	390	mg/Kg-dry	100	7/13/2016 5:23 PM
Antimony	3.4		0.29	0.39	0.78	mg/Kg-dry	1	7/13/2016 3:42 PM
Arsenic	2.8		0.57	0.78	1.6	mg/Kg-dry	1	7/13/2016 3:42 PM
Barium	29		0.23	3.9	7.8	mg/Kg-dry	1	7/13/2016 3:42 PM
Beryllium	0.034	J	0.0099	0.039	0.20	mg/Kg-dry	1	7/13/2016 3:42 PM
Cadmium	0.039	U	0.026	0.039	0.20	mg/Kg-dry	1	7/13/2016 3:42 PM
Calcium	400		2.3	7.8	39	mg/Kg-dry	1	7/13/2016 3:42 PM
Chromium	20		0.064	0.31	0.39	mg/Kg-dry	1	7/13/2016 3:42 PM
Cobalt	3.3		0.070	0.20	0.78	mg/Kg-dry	1	7/13/2016 3:42 PM
Copper	33		0.32	0.78	3.9	mg/Kg-dry	1	7/13/2016 3:42 PM
Iron	16,000		24	39	120	mg/Kg-dry	10	7/13/2016 4:40 PM
Lead	4.7		0.49	0.78	3.9	mg/Kg-dry	1	7/13/2016 3:42 PM
Magnesium	1,800		2.7	3.9	39	mg/Kg-dry	1	7/13/2016 3:42 PM
Manganese	120		0.14	0.20	0.78	mg/Kg-dry	1	7/13/2016 3:42 PM
Nickel	9.7		0.22	0.78	3.9	mg/Kg-dry	1	7/13/2016 3:42 PM
Potassium	640		1.8	7.8	16	mg/Kg-dry	1	7/13/2016 3:42 PM
Selenium	1.2	U	0.91	1.2	1.6	mg/Kg-dry	1	7/13/2016 3:42 PM
Silver	0.20	U	0.064	0.20	0.78	mg/Kg-dry	1	7/13/2016 3:42 PM
Sodium	59		1.6	3.9	39	mg/Kg-dry	1	7/13/2016 3:42 PM
Vanadium	25		0.099	0.78	2.0	mg/Kg-dry	1	7/13/2016 3:42 PM
Zinc	21		0.30	0.39	3.9	mg/Kg-dry	1	7/13/2016 3:42 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.097	J	0.038	0.039	0.16	mg/Kg-dry	10	7/15/2016 4:46 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
1,2-Dichlorobenzene	0.020	U	0.0085	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
1,3-Dichlorobenzene	0.020	U	0.0081	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
1,4-Dichlorobenzene	0.020	U	0.0063	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
2,4,5-Trichlorophenol	0.039	U	0.019	0.039	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
2,4,6-Trichlorophenol	0.039	U	0.022	0.039	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
2,4-Dichlorophenol	0.098	U	0.034	0.098	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
2,4-Dimethyl phenol	0.098	U	0.038	0.098	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
2,4-Dinitrophenol	0.20	UY	0.11	0.20	0.98	mg/Kg-dry	1	6/20/2016 10:01 PM
2,4-Dinitrotoluene	0.020	U	0.017	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
2,6-Dinitrotoluene	0.020	U	0.019	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
2-Chloronaphthalene	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
2-Chlorophenol	0.098	U	0.041	0.098	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
2-Methylphenol (o-Cresol)	0.098	U	0.042	0.098	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
2-Nitroaniline	0.020	U	0.0096	0.020	0.38	mg/Kg-dry	1	6/20/2016 10:01 PM
2-Nitrophenol	0.098	U	0.049	0.098	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
3,3´-Dichlorobenzidine	0.79	U	0.50	0.79	1.2	mg/Kg-dry	1	6/20/2016 10:01 PM
3-Nitroaniline	0.020	U	0.014	0.020	0.38	mg/Kg-dry	1	6/20/2016 10:01 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 11:45:00 AM
Project: Camp Hero
Lab ID: 1606425-004 **Matrix:** Soil
Client Sample ID: BG03-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.098	U	0.070	0.098	0.38	mg/Kg-dry	1	6/20/2016 10:01 PM
4,6-Dinitro-2-methylphenol	0.098	UY	0.057	0.098	0.38	mg/Kg-dry	1	6/20/2016 10:01 PM
4-Bromophenyl phenyl ether	0.098	U	0.050	0.098	0.24	mg/Kg-dry	1	6/20/2016 10:01 PM
4-Chloro-3-methylphenol	0.039	U	0.021	0.039	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
4-Chloroaniline [p-Chloroaniline]	0.098	U	0.030	0.098	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
4-Chlorophenyl phenyl ether	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
4-Nitroaniline	0.098	U	0.028	0.098	0.38	mg/Kg-dry	1	6/20/2016 10:01 PM
4-Nitrophenol	0.39	U	0.28	0.39	0.98	mg/Kg-dry	1	6/20/2016 10:01 PM
Benzoic acid	0.39	UYZ	0.16	0.39	1.2	mg/Kg-dry	1	6/20/2016 10:01 PM
Benzyl alcohol	0.020	U	0.0095	0.020	0.78	mg/Kg-dry	1	6/20/2016 10:01 PM
Bis(2-chloroethoxy) methane	0.020	U	0.0082	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Bis(2-chloroethyl) ether	0.039	U	0.021	0.039	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Bis(2-chloroisopropyl)ether	0.020	UYZ	0.0090	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Bis(2-ethylhexyl) phthalate	0.039	U	0.035	0.039	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Butyl benzyl phthalate	0.039	U	0.023	0.039	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Carbazole	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Di-n-butyl phthalate	0.039	U	0.021	0.039	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Di-n-octyl phthalate	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Dibenzofuran	0.020	U	0.010	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Diethyl phthalate	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Dimethyl phthalate	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Hexachlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Hexachlorobutadiene	0.020	U	0.018	0.020	0.059	mg/Kg-dry	1	6/20/2016 10:01 PM
Hexachloroethane	0.020	U	0.0091	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Isophorone	0.020	U	0.0081	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
N-Nitroso-di-n-propylamine	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
N-Nitrosodimethylamine	0.020	UY	0.0096	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
N-Nitrosodiphenylamine	0.020	U	0.0095	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Nitrobenzene	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Pentachlorophenol	0.098	UY	0.074	0.098	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Phenol	0.098	U	0.042	0.098	0.19	mg/Kg-dry	1	6/20/2016 10:01 PM
Surr: 2,4,6-Tribromophenol	58.7			39-132		%Rec	1	6/20/2016 10:01 PM
Surr: 2-Fluorobiphenyl	50.9			44-115		%Rec	1	6/20/2016 10:01 PM
Surr: 2-Fluorophenol	45.2			35-115		%Rec	1	6/20/2016 10:01 PM
Surr: Nitrobenzene-d5	46.7			37-122		%Rec	1	6/20/2016 10:01 PM
Surr: Phenol-d5	47.1			33-122		%Rec	1	6/20/2016 10:01 PM
Surr: Terphenyl-d14	58.3			54-127		%Rec	1	6/20/2016 10:01 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00082		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
2-Methylnaphthalene	0.0016		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Acenaphthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Acenaphthylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606425-004	**Matrix:**	Soil
Client Sample ID:	BG03-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00079	UQ	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Benzo(a)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Benzo(b)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Benzo(g,h,i)perylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Benzo(k)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Chrysene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Dibenzo(a,h)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Fluorene	0.00079	UQ	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Indeno(1,2,3-cd)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Naphthalene	0.0017		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Phenanthrene	0.00079	UQ	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Pyrene	0.00079	UQ	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 1:31 PM
Surr: 2-Fluorobiphenyl	79.8			46-115		%Rec	1	7/3/2016 1:31 PM
Surr: Nitrobenzene-d5	91.5			44-125		%Rec	1	7/3/2016 1:31 PM
Surr: Terphenyl-d14	102			58-133		%Rec	1	7/3/2016 1:31 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 11:50:00 AM
Project:	Camp Hero		
Lab ID:	1606425-005	**Matrix:**	Soil
Client Sample ID:	BG03-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	16,000		54	140	360	mg/Kg-dry	100	7/13/2016 5:11 PM
Antimony	4.8		0.27	0.36	0.72	mg/Kg-dry	1	7/13/2016 3:17 PM
Arsenic	2.4	X	0.52	0.72	1.4	mg/Kg-dry	1	7/13/2016 3:17 PM
Barium	52	X	0.22	3.6	7.2	mg/Kg-dry	1	7/13/2016 3:17 PM
Beryllium	0.26	X	0.0092	0.036	0.18	mg/Kg-dry	1	7/13/2016 3:17 PM
Cadmium	0.036	UX	0.024	0.036	0.18	mg/Kg-dry	1	7/13/2016 3:17 PM
Calcium	450		2.1	7.2	36	mg/Kg-dry	1	7/13/2016 3:17 PM
Chromium	20	X	0.060	0.29	0.36	mg/Kg-dry	1	7/13/2016 3:17 PM
Cobalt	4.8	X	0.065	0.18	0.72	mg/Kg-dry	1	7/13/2016 3:17 PM
Copper	38	X	0.30	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:17 PM
Iron	17,000		23	36	110	mg/Kg-dry	10	7/13/2016 4:28 PM
Lead	3.1	J	0.45	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:17 PM
Magnesium	3,500		25	36	360	mg/Kg-dry	10	7/13/2016 4:28 PM
Manganese	280		1.3	1.8	7.2	mg/Kg-dry	10	7/13/2016 4:28 PM
Nickel	12		0.20	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:17 PM
Potassium	2,500		17	72	140	mg/Kg-dry	10	7/13/2016 4:28 PM
Selenium	1.1	UX	0.84	1.1	1.4	mg/Kg-dry	1	7/13/2016 3:17 PM
Silver	0.18	UX	0.059	0.18	0.72	mg/Kg-dry	1	7/13/2016 3:17 PM
Sodium	92		1.5	3.6	36	mg/Kg-dry	1	7/13/2016 3:17 PM
Vanadium	24	X	0.092	0.72	1.8	mg/Kg-dry	1	7/13/2016 3:17 PM
Zinc	23	X	0.28	0.36	3.6	mg/Kg-dry	1	7/13/2016 3:17 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.22		0.035	0.036	0.14	mg/Kg-dry	10	7/15/2016 4:42 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
2,4-Dichlorophenol	0.091	U	0.031	0.091	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
2,4-Dimethyl phenol	0.091	U	0.035	0.091	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.90	mg/Kg-dry	1	6/20/2016 3:03 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
2-Chlorophenol	0.091	U	0.038	0.091	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
2-Methylphenol (o-Cresol)	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
2-Nitroaniline	0.018	U	0.0088	0.018	0.35	mg/Kg-dry	1	6/20/2016 3:03 PM
2-Nitrophenol	0.091	U	0.045	0.091	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
3,3´-Dichlorobenzidine	0.72	UX	0.46	0.72	1.1	mg/Kg-dry	1	6/20/2016 3:03 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/20/2016 3:03 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 11:50:00 AM
Project: Camp Hero
Lab ID: 1606425-005 **Matrix:** Soil
Client Sample ID: BG03-SB02-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.091	U	0.065	0.091	0.35	mg/Kg-dry	1	6/20/2016 3:03 PM
4,6-Dinitro-2-methylphenol	0.091	UY	0.052	0.091	0.35	mg/Kg-dry	1	6/20/2016 3:03 PM
4-Bromophenyl phenyl ether	0.091	U	0.046	0.091	0.22	mg/Kg-dry	1	6/20/2016 3:03 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
4-Chloroaniline [p-Chloroaniline]	0.091	U	0.027	0.091	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
4-Nitroaniline	0.091	U	0.026	0.091	0.35	mg/Kg-dry	1	6/20/2016 3:03 PM
4-Nitrophenol	0.36	U	0.26	0.36	0.90	mg/Kg-dry	1	6/20/2016 3:03 PM
Benzoic acid	0.36	UY XZ	0.15	0.36	1.1	mg/Kg-dry	1	6/20/2016 3:03 PM
Benzyl alcohol	0.018	U	0.0087	0.018	0.72	mg/Kg-dry	1	6/20/2016 3:03 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Bis(2-chloroisopropyl)ether	0.018	UY Z	0.0083	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Di-n-butyl phthalate	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.054	mg/Kg-dry	1	6/20/2016 3:03 PM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
N-Nitrosodimethylamine	0.018	UY	0.0088	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
N-Nitrosodiphenylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Pentachlorophenol	0.091	UY	0.068	0.091	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Phenol	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	6/20/2016 3:03 PM
Surr: 2,4,6-Tribromophenol	70.5			39-132		%Rec	1	6/20/2016 3:03 PM
Surr: 2-Fluorobiphenyl	63.3			44-115		%Rec	1	6/20/2016 3:03 PM
Surr: 2-Fluorophenol	52.9			35-115		%Rec	1	6/20/2016 3:03 PM
Surr: Nitrobenzene-d5	58.6			37-122		%Rec	1	6/20/2016 3:03 PM
Surr: Phenol-d5	52.8			33-122		%Rec	1	6/20/2016 3:03 PM
Surr: Terphenyl-d14	70.2			54-127		%Rec	1	6/20/2016 3:03 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00083	X	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
2-Methylnaphthalene	0.0018	X	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 11:50:00 AM
Project:	Camp Hero		
Lab ID:	1606425-005	**Matrix:**	Soil
Client Sample ID:	BG03-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00074	UQ	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Benzo(a)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Benzo(b)fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Benzo(g,h,i)perylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Benzo(k)fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Chrysene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Fluorene	0.00074	UQ	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Indeno(1,2,3-cd)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Naphthalene	0.0012	X	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Phenanthrene	0.00074	UQ X	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Pyrene	0.00074	UQ	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 10:40 AM
Surr: 2-Fluorobiphenyl	81.0			46-115		%Rec	1	7/3/2016 10:40 AM
Surr: Nitrobenzene-d5	89.9			44-125		%Rec	1	7/3/2016 10:40 AM
Surr: Terphenyl-d14	103			58-133		%Rec	1	7/3/2016 10:40 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.1		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 11:55:00 AM
Project:	Camp Hero		
Lab ID:	1606425-006	**Matrix:**	Soil
Client Sample ID:	BG03-SB02-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	11,000		54	140	360	mg/Kg-dry	100	7/13/2016 5:33 PM
Antimony	3.1		0.27	0.36	0.72	mg/Kg-dry	1	7/13/2016 3:55 PM
Arsenic	1.6		0.52	0.72	1.4	mg/Kg-dry	1	7/13/2016 3:55 PM
Barium	37		0.21	3.6	7.2	mg/Kg-dry	1	7/13/2016 3:55 PM
Beryllium	0.058	J	0.0091	0.036	0.18	mg/Kg-dry	1	7/13/2016 3:55 PM
Cadmium	0.051	J	0.024	0.036	0.18	mg/Kg-dry	1	7/13/2016 3:55 PM
Calcium	430		2.1	7.2	36	mg/Kg-dry	1	7/13/2016 3:55 PM
Chromium	15		0.059	0.29	0.36	mg/Kg-dry	1	7/13/2016 3:55 PM
Cobalt	2.8		0.065	0.18	0.72	mg/Kg-dry	1	7/13/2016 3:55 PM
Copper	29		0.30	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:55 PM
Iron	13,000		23	36	110	mg/Kg-dry	10	7/13/2016 4:48 PM
Lead	2.8	J	0.45	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:55 PM
Magnesium	2,400		25	36	360	mg/Kg-dry	10	7/13/2016 4:48 PM
Manganese	170		0.13	0.18	0.72	mg/Kg-dry	1	7/13/2016 3:55 PM
Nickel	7.9		0.20	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:55 PM
Potassium	1,600		1.7	7.2	14	mg/Kg-dry	1	7/13/2016 3:55 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/13/2016 3:55 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/13/2016 3:55 PM
Sodium	85		1.5	3.6	36	mg/Kg-dry	1	7/13/2016 3:55 PM
Vanadium	18		0.091	0.72	1.8	mg/Kg-dry	1	7/13/2016 3:55 PM
Zinc	16		0.28	0.36	3.6	mg/Kg-dry	1	7/13/2016 3:55 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	J	0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 4:47 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
2,4-Dichlorophenol	0.091	U	0.031	0.091	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
2,4-Dimethyl phenol	0.091	U	0.035	0.091	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.90	mg/Kg-dry	1	6/20/2016 10:25 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
2-Chlorophenol	0.091	U	0.038	0.091	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
2-Methylphenol (o-Cresol)	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
2-Nitroaniline	0.018	U	0.0088	0.018	0.35	mg/Kg-dry	1	6/20/2016 10:25 PM
2-Nitrophenol	0.091	U	0.045	0.091	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
3,3´-Dichlorobenzidine	0.73	U	0.46	0.73	1.1	mg/Kg-dry	1	6/20/2016 10:25 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/20/2016 10:25 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 11:55:00 AM
Project: Camp Hero
Lab ID: 1606425-006 **Matrix:** Soil
Client Sample ID: BG03-SB02-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.091	U	0.065	0.091	0.35	mg/Kg-dry	1	6/20/2016 10:25 PM
4,6-Dinitro-2-methylphenol	0.091	UY	0.052	0.091	0.35	mg/Kg-dry	1	6/20/2016 10:25 PM
4-Bromophenyl phenyl ether	0.091	U	0.046	0.091	0.22	mg/Kg-dry	1	6/20/2016 10:25 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
4-Chloroaniline [p-Chloroaniline]	0.091	U	0.027	0.091	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
4-Nitroaniline	0.091	U	0.026	0.091	0.35	mg/Kg-dry	1	6/20/2016 10:25 PM
4-Nitrophenol	0.36	U	0.26	0.36	0.90	mg/Kg-dry	1	6/20/2016 10:25 PM
Benzoic acid	0.36	UYZ	0.15	0.36	1.1	mg/Kg-dry	1	6/20/2016 10:25 PM
Benzyl alcohol	0.018	U	0.0087	0.018	0.72	mg/Kg-dry	1	6/20/2016 10:25 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0083	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Di-n-butyl phthalate	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.054	mg/Kg-dry	1	6/20/2016 10:25 PM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
N-Nitrosodimethylamine	0.018	UY	0.0088	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
N-Nitrosodiphenylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Pentachlorophenol	0.091	UY	0.068	0.091	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Phenol	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	6/20/2016 10:25 PM
Surr: 2,4,6-Tribromophenol	72.9			39-132		%Rec	1	6/20/2016 10:25 PM
Surr: 2-Fluorobiphenyl	65.3			44-115		%Rec	1	6/20/2016 10:25 PM
Surr: 2-Fluorophenol	58.4			35-115		%Rec	1	6/20/2016 10:25 PM
Surr: Nitrobenzene-d5	62.4			37-122		%Rec	1	6/20/2016 10:25 PM
Surr: Phenol-d5	59.9			33-122		%Rec	1	6/20/2016 10:25 PM
Surr: Terphenyl-d14	72.0			54-127		%Rec	1	6/20/2016 10:25 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
2-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 11:55:00 AM
Project:	Camp Hero		
Lab ID:	1606425-006	**Matrix:**	Soil
Client Sample ID:	BG03-SB02-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00072	UQ	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Benzo(a)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Benzo(b)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Benzo(g,h,i)perylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Benzo(k)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Chrysene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Fluorene	0.00072	UQ	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Indeno(1,2,3-cd)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Naphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Phenanthrene	0.00072	UQ	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Pyrene	0.00072	UQ	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/3/2016 2:00 PM
Surr: 2-Fluorobiphenyl	78.6			46-115		%Rec	1	7/3/2016 2:00 PM
Surr: Nitrobenzene-d5	74.7			44-125		%Rec	1	7/3/2016 2:00 PM
Surr: Terphenyl-d14	99.9			58-133		%Rec	1	7/3/2016 2:00 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.4		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:00:00 PM
Project:	Camp Hero		
Lab ID:	1606425-007	**Matrix:**	Soil
Client Sample ID:	BG03-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	21,000		110	310	760	mg/Kg-dry	200	7/13/2016 5:58 PM
Antimony	5.3		0.29	0.38	0.76	mg/Kg-dry	1	7/13/2016 3:56 PM
Arsenic	2.4		0.55	0.76	1.5	mg/Kg-dry	1	7/13/2016 3:56 PM
Barium	34		0.23	3.8	7.6	mg/Kg-dry	1	7/13/2016 3:56 PM
Beryllium	0.035	J	0.0097	0.038	0.19	mg/Kg-dry	1	7/13/2016 3:56 PM
Cadmium	0.073	J	0.025	0.038	0.19	mg/Kg-dry	1	7/13/2016 3:56 PM
Calcium	520		2.2	7.6	38	mg/Kg-dry	1	7/13/2016 3:56 PM
Chromium	24		0.063	0.31	0.38	mg/Kg-dry	1	7/13/2016 3:56 PM
Cobalt	4.9		0.069	0.19	0.76	mg/Kg-dry	1	7/13/2016 3:56 PM
Copper	41		0.32	0.76	3.8	mg/Kg-dry	1	7/13/2016 3:56 PM
Iron	18,000		24	38	110	mg/Kg-dry	10	7/13/2016 4:49 PM
Lead	4.8		0.47	0.76	3.8	mg/Kg-dry	1	7/13/2016 3:56 PM
Magnesium	2,500		27	38	380	mg/Kg-dry	10	7/13/2016 4:49 PM
Manganese	120		0.14	0.19	0.76	mg/Kg-dry	1	7/13/2016 3:56 PM
Nickel	14		0.22	0.76	3.8	mg/Kg-dry	1	7/13/2016 3:56 PM
Potassium	740		1.8	7.6	15	mg/Kg-dry	1	7/13/2016 3:56 PM
Selenium	1.1	U	0.89	1.1	1.5	mg/Kg-dry	1	7/13/2016 3:56 PM
Silver	0.19	U	0.062	0.19	0.76	mg/Kg-dry	1	7/13/2016 3:56 PM
Sodium	76		1.6	3.8	38	mg/Kg-dry	1	7/13/2016 3:56 PM
Vanadium	30		0.097	0.76	1.9	mg/Kg-dry	1	7/13/2016 3:56 PM
Zinc	19		0.29	0.38	3.8	mg/Kg-dry	1	7/13/2016 3:56 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.10	J	0.037	0.039	0.15	mg/Kg-dry	10	7/15/2016 4:48 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
1,2-Dichlorobenzene	0.019	U	0.0083	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
1,3-Dichlorobenzene	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
1,4-Dichlorobenzene	0.019	U	0.0061	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
2,4-Dichlorophenol	0.096	U	0.033	0.096	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
2,4-Dimethyl phenol	0.096	U	0.037	0.096	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.95	mg/Kg-dry	1	6/20/2016 10:50 PM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
2-Chlorophenol	0.096	U	0.040	0.096	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
2-Methylphenol (o-Cresol)	0.096	U	0.041	0.096	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
2-Nitroaniline	0.019	U	0.0093	0.019	0.37	mg/Kg-dry	1	6/20/2016 10:50 PM
2-Nitrophenol	0.096	U	0.047	0.096	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
3,3´-Dichlorobenzidine	0.77	U	0.49	0.77	1.1	mg/Kg-dry	1	6/20/2016 10:50 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	6/20/2016 10:50 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 12:00:00 PM
Project: Camp Hero
Lab ID: 1606425-007 **Matrix:** Soil
Client Sample ID: BG03-SS03-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.096	U	0.068	0.096	0.37	mg/Kg-dry	1	6/20/2016 10:50 PM
4,6-Dinitro-2-methylphenol	0.096	UY	0.055	0.096	0.37	mg/Kg-dry	1	6/20/2016 10:50 PM
4-Bromophenyl phenyl ether	0.096	U	0.049	0.096	0.23	mg/Kg-dry	1	6/20/2016 10:50 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
4-Chloroaniline [p-Chloroaniline]	0.096	U	0.029	0.096	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
4-Nitroaniline	0.096	U	0.028	0.096	0.37	mg/Kg-dry	1	6/20/2016 10:50 PM
4-Nitrophenol	0.38	U	0.27	0.38	0.95	mg/Kg-dry	1	6/20/2016 10:50 PM
Benzoic acid	0.28	JYZ	0.15	0.38	1.1	mg/Kg-dry	1	6/20/2016 10:50 PM
Benzyl alcohol	0.019	U	0.0092	0.019	0.76	mg/Kg-dry	1	6/20/2016 10:50 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Bis(2-chloroethyl) ether	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0088	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.034	0.038	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Butyl benzyl phthalate	0.038	U	0.023	0.038	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Di-n-butyl phthalate	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Dibenzofuran	0.019	U	0.0098	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.057	mg/Kg-dry	1	6/20/2016 10:50 PM
Hexachloroethane	0.019	U	0.0088	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Isophorone	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
N-Nitrosodimethylamine	0.019	UY	0.0093	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
N-Nitrosodiphenylamine	0.019	U	0.0093	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Pentachlorophenol	0.096	UY	0.072	0.096	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Phenol	0.096	U	0.041	0.096	0.18	mg/Kg-dry	1	6/20/2016 10:50 PM
Surr: 2,4,6-Tribromophenol	72.1			39-132		%Rec	1	6/20/2016 10:50 PM
Surr: 2-Fluorobiphenyl	62.9			44-115		%Rec	1	6/20/2016 10:50 PM
Surr: 2-Fluorophenol	56.9			35-115		%Rec	1	6/20/2016 10:50 PM
Surr: Nitrobenzene-d5	60.1			37-122		%Rec	1	6/20/2016 10:50 PM
Surr: Phenol-d5	58.5			33-122		%Rec	1	6/20/2016 10:50 PM
Surr: Terphenyl-d14	68.4			54-127		%Rec	1	6/20/2016 10:50 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0014		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
2-Methylnaphthalene	0.0027		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Acenaphthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Acenaphthylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:00:00 PM
Project:	Camp Hero		
Lab ID:	1606425-007	**Matrix:**	Soil
Client Sample ID:	BG03-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00078	UQ	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Benzo(a)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Benzo(b)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Benzo(g,h,i)perylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Benzo(k)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Chrysene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Dibenzo(a,h)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Fluorene	0.00078	UQ	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Indeno(1,2,3-cd)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Naphthalene	0.0024		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Phenanthrene	0.00096	Q	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Pyrene	0.00078	UQ	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/3/2016 2:28 PM
Surr: 2-Fluorobiphenyl	74.2			46-115		%Rec	1	7/3/2016 2:28 PM
Surr: Nitrobenzene-d5	79.6			44-125		%Rec	1	7/3/2016 2:28 PM
Surr: Terphenyl-d14	92.1			58-133		%Rec	1	7/3/2016 2:28 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:05:00 PM
Project:	Camp Hero		
Lab ID:	1606425-008	**Matrix:**	Soil
Client Sample ID:	BG03-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	16,000		54	140	360	mg/Kg-dry	100	7/13/2016 5:35 PM
Antimony	5.4		0.27	0.36	0.72	mg/Kg-dry	1	7/13/2016 3:58 PM
Arsenic	2.4		0.52	0.72	1.4	mg/Kg-dry	1	7/13/2016 3:58 PM
Barium	55		0.21	3.6	7.2	mg/Kg-dry	1	7/13/2016 3:58 PM
Beryllium	0.18	J	0.0092	0.036	0.18	mg/Kg-dry	1	7/13/2016 3:58 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/13/2016 3:58 PM
Calcium	510		2.1	7.2	36	mg/Kg-dry	1	7/13/2016 3:58 PM
Chromium	21		0.059	0.29	0.36	mg/Kg-dry	1	7/13/2016 3:58 PM
Cobalt	5.2		0.065	0.18	0.72	mg/Kg-dry	1	7/13/2016 3:58 PM
Copper	42		0.30	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:58 PM
Iron	19,000		230	360	1,100	mg/Kg-dry	100	7/13/2016 5:35 PM
Lead	3.0	J	0.45	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:58 PM
Magnesium	3,900		25	36	360	mg/Kg-dry	10	7/13/2016 4:51 PM
Manganese	370		1.3	1.8	7.2	mg/Kg-dry	10	7/13/2016 4:51 PM
Nickel	12		0.20	0.72	3.6	mg/Kg-dry	1	7/13/2016 3:58 PM
Potassium	3,100		17	72	140	mg/Kg-dry	10	7/13/2016 4:51 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/13/2016 3:58 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/13/2016 3:58 PM
Sodium	100		1.5	3.6	36	mg/Kg-dry	1	7/13/2016 3:58 PM
Vanadium	25		0.092	0.72	1.8	mg/Kg-dry	1	7/13/2016 3:58 PM
Zinc	23		0.28	0.36	3.6	mg/Kg-dry	1	7/13/2016 3:58 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.19		0.035	0.036	0.15	mg/Kg-dry	10	7/15/2016 4:49 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
1,2-Dichlorobenzene	0.018	U	0.0080	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
1,4-Dichlorobenzene	0.018	U	0.0059	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
2,4,6-Trichlorophenol	0.037	U	0.021	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
2,4-Dichlorophenol	0.092	U	0.032	0.092	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
2,4-Dimethyl phenol	0.092	U	0.035	0.092	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
2,4-Dinitrophenol	0.18	UY	0.11	0.18	0.92	mg/Kg-dry	1	6/21/2016 6:09 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
2,6-Dinitrotoluene	0.018	U	0.018	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
2-Chlorophenol	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
2-Methylphenol (o-Cresol)	0.092	U	0.040	0.092	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
2-Nitroaniline	0.018	U	0.0090	0.018	0.35	mg/Kg-dry	1	6/21/2016 6:09 PM
2-Nitrophenol	0.092	U	0.046	0.092	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
3,3´-Dichlorobenzidine	0.74	U	0.47	0.74	1.1	mg/Kg-dry	1	6/21/2016 6:09 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/21/2016 6:09 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 12:05:00 PM
Project: Camp Hero
Lab ID: 1606425-008 **Matrix:** Soil
Client Sample ID: BG03-SB03-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.092	U	0.066	0.092	0.35	mg/Kg-dry	1	6/21/2016 6:09 PM
4,6-Dinitro-2-methylphenol	0.092	U	0.053	0.092	0.35	mg/Kg-dry	1	6/21/2016 6:09 PM
4-Bromophenyl phenyl ether	0.092	U	0.047	0.092	0.22	mg/Kg-dry	1	6/21/2016 6:09 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
4-Chloroaniline [p-Chloroaniline]	0.092	U	0.028	0.092	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
4-Nitroaniline	0.092	U	0.027	0.092	0.35	mg/Kg-dry	1	6/21/2016 6:09 PM
4-Nitrophenol	0.37	U	0.26	0.37	0.92	mg/Kg-dry	1	6/21/2016 6:09 PM
Benzoic acid	0.37	UYZ	0.15	0.37	1.1	mg/Kg-dry	1	6/21/2016 6:09 PM
Benzyl alcohol	0.018	U	0.0089	0.018	0.73	mg/Kg-dry	1	6/21/2016 6:09 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0077	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0084	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.033	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Carbazole	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Di-n-octyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Dibenzofuran	0.018	U	0.0094	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Diethyl phthalate	0.018	U	0.014	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Hexachlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	6/21/2016 6:09 PM
Hexachloroethane	0.018	U	0.0085	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Isophorone	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
N-Nitrosodimethylamine	0.018	UY	0.0090	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
N-Nitrosodiphenylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Nitrobenzene	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Pentachlorophenol	0.092	UY	0.069	0.092	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Phenol	0.092	U	0.040	0.092	0.18	mg/Kg-dry	1	6/21/2016 6:09 PM
Surr: 2,4,6-Tribromophenol	62.6			39-132		%Rec	1	6/21/2016 6:09 PM
Surr: 2-Fluorobiphenyl	58.6			44-115		%Rec	1	6/21/2016 6:09 PM
Surr: 2-Fluorophenol	51.1			35-115		%Rec	1	6/21/2016 6:09 PM
Surr: Nitrobenzene-d5	55.2			37-122		%Rec	1	6/21/2016 6:09 PM
Surr: Phenol-d5	51.2			33-122		%Rec	1	6/21/2016 6:09 PM
Surr: Terphenyl-d14	62.5			54-127		%Rec	1	6/21/2016 6:09 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00096		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
2-Methylnaphthalene	0.0021		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Acenaphthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Acenaphthylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:05:00 PM
Project:	Camp Hero		
Lab ID:	1606425-008	**Matrix:**	Soil
Client Sample ID:	BG03-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Benzo(a)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Benzo(b)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Benzo(g,h,i)perylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Benzo(k)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Chrysene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Dibenzo(a,h)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Fluorene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Indeno(1,2,3-cd)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Naphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Phenanthrene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Pyrene	0.00073	UQ	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/3/2016 2:57 PM
Surr: 2-Fluorobiphenyl	82.9			46-115		%Rec	1	7/3/2016 2:57 PM
Surr: Nitrobenzene-d5	93.7			44-125		%Rec	1	7/3/2016 2:57 PM
Surr: Terphenyl-d14	103			58-133		%Rec	1	7/3/2016 2:57 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:10:00 PM
Project:	Camp Hero		
Lab ID:	1606425-009	**Matrix:**	Soil
Client Sample ID:	BG03-SB03-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	13,000		53	140	350	mg/Kg-dry	100	7/13/2016 5:37 PM
Antimony	5.5		0.27	0.35	0.71	mg/Kg-dry	1	7/13/2016 3:59 PM
Arsenic	2.5		0.51	0.71	1.4	mg/Kg-dry	1	7/13/2016 3:59 PM
Barium	58		0.21	3.5	7.1	mg/Kg-dry	1	7/13/2016 3:59 PM
Beryllium	0.055	J	0.0090	0.035	0.18	mg/Kg-dry	1	7/13/2016 3:59 PM
Cadmium	0.076	J	0.023	0.035	0.18	mg/Kg-dry	1	7/13/2016 3:59 PM
Calcium	960		2.1	7.1	35	mg/Kg-dry	1	7/13/2016 3:59 PM
Chromium	20		0.058	0.28	0.35	mg/Kg-dry	1	7/13/2016 3:59 PM
Cobalt	5.3		0.064	0.18	0.71	mg/Kg-dry	1	7/13/2016 3:59 PM
Copper	40		0.29	0.71	3.5	mg/Kg-dry	1	7/13/2016 3:59 PM
Iron	16,000		22	35	110	mg/Kg-dry	10	7/13/2016 4:52 PM
Lead	2.9	J	0.44	0.71	3.5	mg/Kg-dry	1	7/13/2016 3:59 PM
Magnesium	3,600		25	35	350	mg/Kg-dry	10	7/13/2016 4:52 PM
Manganese	310		1.3	1.8	7.1	mg/Kg-dry	10	7/13/2016 4:52 PM
Nickel	11		0.20	0.71	3.5	mg/Kg-dry	1	7/13/2016 3:59 PM
Potassium	2,400		16	71	140	mg/Kg-dry	10	7/13/2016 4:52 PM
Selenium	1.1	U	0.82	1.1	1.4	mg/Kg-dry	1	7/13/2016 3:59 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	7/13/2016 3:59 PM
Sodium	150		1.4	3.5	35	mg/Kg-dry	1	7/13/2016 3:59 PM
Vanadium	25		0.090	0.71	1.8	mg/Kg-dry	1	7/13/2016 3:59 PM
Zinc	22		0.27	0.35	3.5	mg/Kg-dry	1	7/13/2016 3:59 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.17		0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 4:50 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
1,2-Dichlorobenzene	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
1,3-Dichlorobenzene	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
1,4-Dichlorobenzene	0.019	U	0.0060	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
2,4,6-Trichlorophenol	0.037	U	0.021	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
2,4-Dichlorophenol	0.093	U	0.032	0.093	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
2,4-Dimethyl phenol	0.093	U	0.036	0.093	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.93	mg/Kg-dry	1	6/21/2016 6:34 PM
2,4-Dinitrotoluene	0.019	U	0.016	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
2-Chloronaphthalene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
2-Chlorophenol	0.093	U	0.039	0.093	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
2-Methylphenol (o-Cresol)	0.093	U	0.040	0.093	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
2-Nitroaniline	0.019	U	0.0090	0.019	0.36	mg/Kg-dry	1	6/21/2016 6:34 PM
2-Nitrophenol	0.093	U	0.046	0.093	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
3,3´-Dichlorobenzidine	0.74	U	0.48	0.74	1.1	mg/Kg-dry	1	6/21/2016 6:34 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.36	mg/Kg-dry	1	6/21/2016 6:34 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 12:10:00 PM
Project: Camp Hero
Lab ID: 1606425-009 **Matrix:** Soil
Client Sample ID: BG03-SB03-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.093	U	0.066	0.093	0.36	mg/Kg-dry	1	6/21/2016 6:34 PM
4,6-Dinitro-2-methylphenol	0.093	U	0.053	0.093	0.36	mg/Kg-dry	1	6/21/2016 6:34 PM
4-Bromophenyl phenyl ether	0.093	U	0.047	0.093	0.22	mg/Kg-dry	1	6/21/2016 6:34 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
4-Chloroaniline [p-Chloroaniline]	0.093	U	0.028	0.093	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
4-Nitroaniline	0.093	U	0.027	0.093	0.36	mg/Kg-dry	1	6/21/2016 6:34 PM
4-Nitrophenol	0.37	U	0.27	0.37	0.93	mg/Kg-dry	1	6/21/2016 6:34 PM
Benzoic acid	0.37	UYZ	0.15	0.37	1.1	mg/Kg-dry	1	6/21/2016 6:34 PM
Benzyl alcohol	0.019	U	0.0090	0.019	0.74	mg/Kg-dry	1	6/21/2016 6:34 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0085	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.033	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Dibenzofuran	0.019	U	0.0095	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Dimethyl phthalate	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.056	mg/Kg-dry	1	6/21/2016 6:34 PM
Hexachloroethane	0.019	U	0.0086	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Isophorone	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
N-Nitroso-di-n-propylamine	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
N-Nitrosodimethylamine	0.019	UY	0.0090	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
N-Nitrosodiphenylamine	0.019	U	0.0090	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Pentachlorophenol	0.093	UY	0.070	0.093	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Phenol	0.093	U	0.040	0.093	0.18	mg/Kg-dry	1	6/21/2016 6:34 PM
Surr: 2,4,6-Tribromophenol	62.3			39-132		%Rec	1	6/21/2016 6:34 PM
Surr: 2-Fluorobiphenyl	56.7			44-115		%Rec	1	6/21/2016 6:34 PM
Surr: 2-Fluorophenol	51.6			35-115		%Rec	1	6/21/2016 6:34 PM
Surr: Nitrobenzene-d5	53.6			37-122		%Rec	1	6/21/2016 6:34 PM
Surr: Phenol-d5	49.4			33-122		%Rec	1	6/21/2016 6:34 PM
Surr: Terphenyl-d14	60.6			54-127		%Rec	1	6/21/2016 6:34 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
2-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Acenaphthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Acenaphthylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:10:00 PM
Project:	Camp Hero		
Lab ID:	1606425-009	**Matrix:**	Soil
Client Sample ID:	BG03-SB03-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00075	UQ	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Benzo(a)pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Benzo(b)fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Benzo(g,h,i)perylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Benzo(k)fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Chrysene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Fluorene	0.00075	UQ	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Indeno(1,2,3-cd)pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Naphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Phenanthrene	0.00075	UQ	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Pyrene	0.00075	UQ	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/3/2016 3:25 PM
Surr: 2-Fluorobiphenyl	78.5			46-115		%Rec	1	7/3/2016 3:25 PM
Surr: Nitrobenzene-d5	85.9			44-125		%Rec	1	7/3/2016 3:25 PM
Surr: Terphenyl-d14	97.7			58-133		%Rec	1	7/3/2016 3:25 PM

Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606425-010	**Matrix:**	Soil
Client Sample ID:	BG03-SS04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	19,000		60	160	400	mg/Kg-dry	100	7/13/2016 5:38 PM
Antimony	4.7		0.30	0.40	0.80	mg/Kg-dry	1	7/13/2016 4:01 PM
Arsenic	3.0		0.58	0.80	1.6	mg/Kg-dry	1	7/13/2016 4:01 PM
Barium	38		0.24	4.0	8.0	mg/Kg-dry	1	7/13/2016 4:01 PM
Beryllium	0.10	J	0.010	0.040	0.20	mg/Kg-dry	1	7/13/2016 4:01 PM
Cadmium	0.16	J	0.026	0.040	0.20	mg/Kg-dry	1	7/13/2016 4:01 PM
Calcium	470		2.3	8.0	40	mg/Kg-dry	1	7/13/2016 4:01 PM
Chromium	23		0.066	0.32	0.40	mg/Kg-dry	1	7/13/2016 4:01 PM
Cobalt	4.3		0.072	0.20	0.80	mg/Kg-dry	1	7/13/2016 4:01 PM
Copper	37		0.33	0.80	4.0	mg/Kg-dry	1	7/13/2016 4:01 PM
Iron	16,000		25	40	120	mg/Kg-dry	10	7/13/2016 4:53 PM
Lead	5.7		0.50	0.80	4.0	mg/Kg-dry	1	7/13/2016 4:01 PM
Magnesium	2,500		28	40	400	mg/Kg-dry	10	7/13/2016 4:53 PM
Manganese	120		0.15	0.20	0.80	mg/Kg-dry	1	7/13/2016 4:01 PM
Nickel	12		0.23	0.80	4.0	mg/Kg-dry	1	7/13/2016 4:01 PM
Potassium	810		1.9	8.0	16	mg/Kg-dry	1	7/13/2016 4:01 PM
Selenium	1.2	U	0.93	1.2	1.6	mg/Kg-dry	1	7/13/2016 4:01 PM
Silver	0.20	U	0.065	0.20	0.80	mg/Kg-dry	1	7/13/2016 4:01 PM
Sodium	80		1.6	4.0	40	mg/Kg-dry	1	7/13/2016 4:01 PM
Vanadium	29		0.10	0.80	2.0	mg/Kg-dry	1	7/13/2016 4:01 PM
Zinc	39		0.31	0.40	4.0	mg/Kg-dry	1	7/13/2016 4:01 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.11	J	0.038	0.039	0.16	mg/Kg-dry	10	7/15/2016 4:51 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
1,2-Dichlorobenzene	0.020	U	0.0086	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
1,3-Dichlorobenzene	0.020	U	0.0082	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
1,4-Dichlorobenzene	0.020	U	0.0064	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
2,4,5-Trichlorophenol	0.040	U	0.020	0.040	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
2,4,6-Trichlorophenol	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
2,4-Dichlorophenol	0.099	U	0.034	0.099	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
2,4-Dimethyl phenol	0.099	U	0.038	0.099	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
2,4-Dinitrophenol	0.20	UY	0.11	0.20	0.99	mg/Kg-dry	1	6/21/2016 6:58 PM
2,4-Dinitrotoluene	0.020	U	0.017	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
2,6-Dinitrotoluene	0.020	U	0.019	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
2-Chloronaphthalene	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
2-Chlorophenol	0.099	U	0.041	0.099	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
2-Methylphenol (o-Cresol)	0.099	U	0.043	0.099	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
2-Nitroaniline	0.020	U	0.0097	0.020	0.38	mg/Kg-dry	1	6/21/2016 6:58 PM
2-Nitrophenol	0.099	U	0.049	0.099	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
3,3´-Dichlorobenzidine	0.79	U	0.51	0.79	1.2	mg/Kg-dry	1	6/21/2016 6:58 PM
3-Nitroaniline	0.020	U	0.014	0.020	0.38	mg/Kg-dry	1	6/21/2016 6:58 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 12:25:00 PM
Project: Camp Hero
Lab ID: 1606425-010 **Matrix:** Soil
Client Sample ID: BG03-SS04-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.099	U	0.071	0.099	0.38	mg/Kg-dry	1	6/21/2016 6:58 PM
4,6-Dinitro-2-methylphenol	0.099	U	0.057	0.099	0.38	mg/Kg-dry	1	6/21/2016 6:58 PM
4-Bromophenyl phenyl ether	0.099	U	0.051	0.099	0.24	mg/Kg-dry	1	6/21/2016 6:58 PM
4-Chloro-3-methylphenol	0.040	U	0.021	0.040	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
4-Chloroaniline [p-Chloroaniline]	0.099	U	0.030	0.099	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
4-Chlorophenyl phenyl ether	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
4-Nitroaniline	0.099	U	0.029	0.099	0.38	mg/Kg-dry	1	6/21/2016 6:58 PM
4-Nitrophenol	0.40	U	0.28	0.40	0.99	mg/Kg-dry	1	6/21/2016 6:58 PM
Benzoic acid	0.40	UYZ	0.16	0.40	1.2	mg/Kg-dry	1	6/21/2016 6:58 PM
Benzyl alcohol	0.020	U	0.0096	0.020	0.79	mg/Kg-dry	1	6/21/2016 6:58 PM
Bis(2-chloroethoxy) methane	0.020	U	0.0083	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Bis(2-chloroethyl) ether	0.040	U	0.021	0.040	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Bis(2-chloroisopropyl)ether	0.020	UYZ	0.0091	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Bis(2-ethylhexyl) phthalate	0.040	U	0.035	0.040	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Butyl benzyl phthalate	0.040	U	0.023	0.040	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Carbazole	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Di-n-butyl phthalate	0.040	U	0.021	0.040	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Di-n-octyl phthalate	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Dibenzofuran	0.020	U	0.010	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Diethyl phthalate	0.020	U	0.015	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Dimethyl phthalate	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Hexachlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Hexachlorobutadiene	0.020	U	0.018	0.020	0.060	mg/Kg-dry	1	6/21/2016 6:58 PM
Hexachloroethane	0.020	U	0.0091	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Isophorone	0.020	U	0.0082	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
N-Nitroso-di-n-propylamine	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
N-Nitrosodimethylamine	0.020	UY	0.0097	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
N-Nitrosodiphenylamine	0.020	U	0.0096	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Nitrobenzene	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Pentachlorophenol	0.099	UY	0.075	0.099	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Phenol	0.099	U	0.043	0.099	0.19	mg/Kg-dry	1	6/21/2016 6:58 PM
Surr: 2,4,6-Tribromophenol	55.3			39-132		%Rec	1	6/21/2016 6:58 PM
Surr: 2-Fluorobiphenyl	49.4			44-115		%Rec	1	6/21/2016 6:58 PM
Surr: 2-Fluorophenol	43.8			35-115		%Rec	1	6/21/2016 6:58 PM
Surr: Nitrobenzene-d5	45.1			37-122		%Rec	1	6/21/2016 6:58 PM
Surr: Phenol-d5	43.9			33-122		%Rec	1	6/21/2016 6:58 PM
Surr: Terphenyl-d14	53.5	Q		54-127		%Rec	1	6/21/2016 6:58 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0018		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
2-Methylnaphthalene	0.0030		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Acenaphthene	0.0017		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Acenaphthylene	0.0018		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Anthracene	0.0029		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606425-010	**Matrix:**	Soil
Client Sample ID:	BG03-SS04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.022	Q	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Benzo(a)pyrene	0.019		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Benzo(b)fluoranthene	0.037		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Benzo(g,h,i)perylene	0.0086		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Benzo(k)fluoranthene	0.0080		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Chrysene	0.019		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Dibenzo(a,h)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Fluoranthene	0.038		0.0079	0.0079	0.0079	mg/Kg-dry	10	7/27/2016 1:08 PM
Fluorene	0.0021	Q	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Indeno(1,2,3-cd)pyrene	0.0086		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Naphthalene	0.0033		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Phenanthrene	0.031	Q	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/3/2016 3:53 PM
Pyrene	0.030		0.0079	0.0079	0.0079	mg/Kg-dry	10	7/27/2016 1:08 PM
Surr: 2-Fluorobiphenyl	75.2			46-115		%Rec	1	7/3/2016 3:53 PM
Surr: Nitrobenzene-d5	88.1			44-125		%Rec	1	7/3/2016 3:53 PM
Surr: Terphenyl-d14	102			58-133		%Rec	1	7/3/2016 3:53 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:35:00 PM
Project:	Camp Hero		
Lab ID:	1606425-011	**Matrix:**	Soil
Client Sample ID:	BG03-SB04-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	14,000		59	160	390	mg/Kg-dry	100	7/13/2016 5:39 PM
Antimony	5.6		0.29	0.39	0.78	mg/Kg-dry	1	7/13/2016 4:02 PM
Arsenic	2.1		0.57	0.78	1.6	mg/Kg-dry	1	7/13/2016 4:02 PM
Barium	42		0.23	3.9	7.8	mg/Kg-dry	1	7/13/2016 4:02 PM
Beryllium	0.24		0.0099	0.039	0.20	mg/Kg-dry	1	7/13/2016 4:02 PM
Cadmium	0.080	J	0.026	0.039	0.20	mg/Kg-dry	1	7/13/2016 4:02 PM
Calcium	330		2.3	7.8	39	mg/Kg-dry	1	7/13/2016 4:02 PM
Chromium	18		0.065	0.31	0.39	mg/Kg-dry	1	7/13/2016 4:02 PM
Cobalt	5.3		0.071	0.20	0.78	mg/Kg-dry	1	7/13/2016 4:02 PM
Copper	40		0.33	0.78	3.9	mg/Kg-dry	1	7/13/2016 4:02 PM
Iron	17,000		25	39	120	mg/Kg-dry	10	7/13/2016 4:54 PM
Lead	3.5	J	0.49	0.78	3.9	mg/Kg-dry	1	7/13/2016 4:02 PM
Magnesium	2,800		27	39	390	mg/Kg-dry	10	7/13/2016 4:54 PM
Manganese	280		1.4	2.0	7.8	mg/Kg-dry	10	7/13/2016 4:54 PM
Nickel	11		0.22	0.78	3.9	mg/Kg-dry	1	7/13/2016 4:02 PM
Potassium	1,700		1.8	7.8	16	mg/Kg-dry	1	7/13/2016 4:02 PM
Selenium	1.2	U	0.91	1.2	1.6	mg/Kg-dry	1	7/13/2016 4:02 PM
Silver	0.20	U	0.064	0.20	0.78	mg/Kg-dry	1	7/13/2016 4:02 PM
Sodium	84		1.6	3.9	39	mg/Kg-dry	1	7/13/2016 4:02 PM
Vanadium	24		0.10	0.78	2.0	mg/Kg-dry	1	7/13/2016 4:02 PM
Zinc	20		0.30	0.39	3.9	mg/Kg-dry	1	7/13/2016 4:02 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.17		0.037	0.038	0.15	mg/Kg-dry	10	7/15/2016 4:51 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
1,2-Dichlorobenzene	0.019	U	0.0082	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
1,3-Dichlorobenzene	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
1,4-Dichlorobenzene	0.019	U	0.0061	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
2,4-Dichlorophenol	0.095	U	0.033	0.095	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
2,4-Dimethyl phenol	0.095	U	0.036	0.095	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.95	mg/Kg-dry	1	6/21/2016 7:23 PM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
2-Chlorophenol	0.095	U	0.040	0.095	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
2-Methylphenol (o-Cresol)	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
2-Nitroaniline	0.019	U	0.0093	0.019	0.37	mg/Kg-dry	1	6/21/2016 7:23 PM
2-Nitrophenol	0.095	U	0.047	0.095	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
3,3´-Dichlorobenzidine	0.76	U	0.49	0.76	1.1	mg/Kg-dry	1	6/21/2016 7:23 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	6/21/2016 7:23 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 12:35:00 PM
Project: Camp Hero
Lab ID: 1606425-011 **Matrix:** Soil
Client Sample ID: BG03-SB04-04

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.095	U	0.068	0.095	0.37	mg/Kg-dry	1	6/21/2016 7:23 PM
4,6-Dinitro-2-methylphenol	0.095	U	0.055	0.095	0.37	mg/Kg-dry	1	6/21/2016 7:23 PM
4-Bromophenyl phenyl ether	0.095	U	0.049	0.095	0.23	mg/Kg-dry	1	6/21/2016 7:23 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
4-Chloroaniline [p-Chloroaniline]	0.095	U	0.029	0.095	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
4-Nitroaniline	0.095	U	0.027	0.095	0.37	mg/Kg-dry	1	6/21/2016 7:23 PM
4-Nitrophenol	0.38	U	0.27	0.38	0.95	mg/Kg-dry	1	6/21/2016 7:23 PM
Benzoic acid	0.38	UYZ	0.15	0.38	1.1	mg/Kg-dry	1	6/21/2016 7:23 PM
Benzyl alcohol	0.019	U	0.0092	0.019	0.75	mg/Kg-dry	1	6/21/2016 7:23 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0087	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.034	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Butyl benzyl phthalate	0.038	U	0.022	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Di-n-butyl phthalate	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Dibenzofuran	0.019	U	0.0097	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.057	mg/Kg-dry	1	6/21/2016 7:23 PM
Hexachloroethane	0.019	U	0.0088	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Isophorone	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
N-Nitrosodimethylamine	0.019	UY	0.0093	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
N-Nitrosodiphenylamine	0.019	U	0.0092	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Pentachlorophenol	0.095	UY	0.072	0.095	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Phenol	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	6/21/2016 7:23 PM
Surr: 2,4,6-Tribromophenol	70.8			39-132		%Rec	1	6/21/2016 7:23 PM
Surr: 2-Fluorobiphenyl	63.6			44-115		%Rec	1	6/21/2016 7:23 PM
Surr: 2-Fluorophenol	57.8			35-115		%Rec	1	6/21/2016 7:23 PM
Surr: Nitrobenzene-d5	59.7			37-122		%Rec	1	6/21/2016 7:23 PM
Surr: Phenol-d5	58.0			33-122		%Rec	1	6/21/2016 7:23 PM
Surr: Terphenyl-d14	69.2			54-127		%Rec	1	6/21/2016 7:23 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
2-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:35:00 PM
Project:	Camp Hero		
Lab ID:	1606425-011	**Matrix:**	Soil
Client Sample ID:	BG03-SB04-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00077	UQ	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Benzo(a)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Benzo(b)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Benzo(g,h,i)perylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Benzo(k)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Chrysene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Fluorene	0.00077	UQ	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Naphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Phenanthrene	0.00077	UQ	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Pyrene	0.00077	UQ	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/3/2016 4:21 PM
Surr: 2-Fluorobiphenyl	82.5			46-115		%Rec	1	7/3/2016 4:21 PM
Surr: Nitrobenzene-d5	93.1			44-125		%Rec	1	7/3/2016 4:21 PM
Surr: Terphenyl-d14	105			58-133		%Rec	1	7/3/2016 4:21 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606425-012	**Matrix:**	Soil
Client Sample ID:	BG03-SB04-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,100		55	150	370	mg/Kg-dry	100	7/13/2016 5:40 PM
Antimony	2.6		0.27	0.37	0.73	mg/Kg-dry	1	7/13/2016 4:03 PM
Arsenic	1.3	J	0.53	0.73	1.5	mg/Kg-dry	1	7/13/2016 4:03 PM
Barium	28		0.22	3.7	7.3	mg/Kg-dry	1	7/13/2016 4:03 PM
Beryllium	0.085	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/13/2016 4:03 PM
Cadmium	0.067	J	0.024	0.037	0.18	mg/Kg-dry	1	7/13/2016 4:03 PM
Calcium	320		2.2	7.3	37	mg/Kg-dry	1	7/13/2016 4:03 PM
Chromium	12		0.060	0.29	0.37	mg/Kg-dry	1	7/13/2016 4:03 PM
Cobalt	2.4		0.066	0.18	0.73	mg/Kg-dry	1	7/13/2016 4:03 PM
Copper	23		0.30	0.73	3.7	mg/Kg-dry	1	7/13/2016 4:03 PM
Iron	10,000		23	37	110	mg/Kg-dry	10	7/13/2016 4:56 PM
Lead	2.1	J	0.46	0.73	3.7	mg/Kg-dry	1	7/13/2016 4:03 PM
Magnesium	1,300		2.6	3.7	37	mg/Kg-dry	1	7/13/2016 4:03 PM
Manganese	130		0.13	0.18	0.73	mg/Kg-dry	1	7/13/2016 4:03 PM
Nickel	5.8		0.21	0.73	3.7	mg/Kg-dry	1	7/13/2016 4:03 PM
Potassium	870		1.7	7.3	15	mg/Kg-dry	1	7/13/2016 4:03 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/13/2016 4:03 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/13/2016 4:03 PM
Sodium	80		1.5	3.7	37	mg/Kg-dry	1	7/13/2016 4:03 PM
Vanadium	15		0.093	0.73	1.8	mg/Kg-dry	1	7/13/2016 4:03 PM
Zinc	11		0.28	0.37	3.7	mg/Kg-dry	1	7/13/2016 4:03 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.088	J	0.036	0.037	0.15	mg/Kg-dry	10	7/15/2016 4:52 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
1,2-Dichlorobenzene	0.019	U	0.0081	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
1,3-Dichlorobenzene	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
1,4-Dichlorobenzene	0.019	U	0.0060	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
2,4-Dichlorophenol	0.094	U	0.032	0.094	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
2,4-Dimethyl phenol	0.094	U	0.036	0.094	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.94	mg/Kg-dry	1	6/21/2016 7:47 PM
2,4-Dinitrotoluene	0.019	U	0.016	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
2-Chlorophenol	0.094	U	0.039	0.094	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
2-Methylphenol (o-Cresol)	0.094	U	0.040	0.094	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
2-Nitroaniline	0.019	U	0.0092	0.019	0.36	mg/Kg-dry	1	6/21/2016 7:47 PM
2-Nitrophenol	0.094	U	0.047	0.094	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
3,3´-Dichlorobenzidine	0.75	U	0.48	0.75	1.1	mg/Kg-dry	1	6/21/2016 7:47 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.36	mg/Kg-dry	1	6/21/2016 7:47 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606425-012 **Matrix:** Soil
Client Sample ID: BG03-SB04-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.094	U	0.067	0.094	0.36	mg/Kg-dry	1	6/21/2016 7:47 PM
4,6-Dinitro-2-methylphenol	0.094	U	0.054	0.094	0.36	mg/Kg-dry	1	6/21/2016 7:47 PM
4-Bromophenyl phenyl ether	0.094	U	0.048	0.094	0.23	mg/Kg-dry	1	6/21/2016 7:47 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
4-Chloroaniline [p-Chloroaniline]	0.094	U	0.028	0.094	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
4-Nitroaniline	0.094	U	0.027	0.094	0.36	mg/Kg-dry	1	6/21/2016 7:47 PM
4-Nitrophenol	0.38	U	0.27	0.38	0.94	mg/Kg-dry	1	6/21/2016 7:47 PM
Benzoic acid	0.38	UYZ	0.15	0.38	1.1	mg/Kg-dry	1	6/21/2016 7:47 PM
Benzyl alcohol	0.019	U	0.0091	0.019	0.74	mg/Kg-dry	1	6/21/2016 7:47 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0086	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Bis(2-ethylhexyl) phthalate	0.035	J	0.033	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Butyl benzyl phthalate	0.038	U	0.022	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Di-n-butyl phthalate	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Dibenzofuran	0.019	U	0.0096	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.056	mg/Kg-dry	1	6/21/2016 7:47 PM
Hexachloroethane	0.019	U	0.0087	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Isophorone	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
N-Nitroso-di-n-propylamine	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
N-Nitrosodimethylamine	0.019	UY	0.0092	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
N-Nitrosodiphenylamine	0.019	U	0.0091	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Pentachlorophenol	0.094	UY	0.071	0.094	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Phenol	0.094	U	0.040	0.094	0.18	mg/Kg-dry	1	6/21/2016 7:47 PM
Surr: 2,4,6-Tribromophenol	78.0			39-132		%Rec	1	6/21/2016 7:47 PM
Surr: 2-Fluorobiphenyl	69.7			44-115		%Rec	1	6/21/2016 7:47 PM
Surr: 2-Fluorophenol	63.2			35-115		%Rec	1	6/21/2016 7:47 PM
Surr: Nitrobenzene-d5	65.7			37-122		%Rec	1	6/21/2016 7:47 PM
Surr: Phenol-d5	64.3			33-122		%Rec	1	6/21/2016 7:47 PM
Surr: Terphenyl-d14	76.4			54-127		%Rec	1	6/21/2016 7:47 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
2-Methylnaphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606425-012	**Matrix:**	Soil
Client Sample ID:	BG03-SB04-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00076	UQ	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Benzo(a)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Benzo(b)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Benzo(g,h,i)perylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Benzo(k)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Chrysene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Fluorene	0.00076	UQ	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Indeno(1,2,3-cd)pyrene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Naphthalene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Phenanthrene	0.00076	UQ	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Pyrene	0.00076	UQ	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/3/2016 4:49 PM
Surr: 2-Fluorobiphenyl	76.5			46-115		%Rec	1	7/3/2016 4:49 PM
Surr: Nitrobenzene-d5	82.9			44-125		%Rec	1	7/3/2016 4:49 PM
Surr: Terphenyl-d14	99.7			58-133		%Rec	1	7/3/2016 4:49 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606425-013	**Matrix:**	Soil
Client Sample ID:	BG03-SB04-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	10,000		54	140	360	mg/Kg-dry	100	7/13/2016 5:42 PM
Antimony	3.4		0.27	0.36	0.72	mg/Kg-dry	1	7/13/2016 4:05 PM
Arsenic	2.3		0.52	0.72	1.4	mg/Kg-dry	1	7/13/2016 4:05 PM
Barium	33		0.22	3.6	7.2	mg/Kg-dry	1	7/13/2016 4:05 PM
Beryllium	0.15	J	0.0092	0.036	0.18	mg/Kg-dry	1	7/13/2016 4:05 PM
Cadmium	0.065	J	0.024	0.036	0.18	mg/Kg-dry	1	7/13/2016 4:05 PM
Calcium	290		2.1	7.2	36	mg/Kg-dry	1	7/13/2016 4:05 PM
Chromium	13		0.060	0.29	0.36	mg/Kg-dry	1	7/13/2016 4:05 PM
Cobalt	3.1		0.065	0.18	0.72	mg/Kg-dry	1	7/13/2016 4:05 PM
Copper	35		0.30	0.72	3.6	mg/Kg-dry	1	7/13/2016 4:05 PM
Iron	13,000		23	36	110	mg/Kg-dry	10	7/13/2016 4:57 PM
Lead	2.6	J	0.45	0.72	3.6	mg/Kg-dry	1	7/13/2016 4:05 PM
Magnesium	1,700		2.5	3.6	36	mg/Kg-dry	1	7/13/2016 4:05 PM
Manganese	170		0.13	0.18	0.72	mg/Kg-dry	1	7/13/2016 4:05 PM
Nickel	7.0		0.20	0.72	3.6	mg/Kg-dry	1	7/13/2016 4:05 PM
Potassium	1,200		1.7	7.2	14	mg/Kg-dry	1	7/13/2016 4:05 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/13/2016 4:05 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/13/2016 4:05 PM
Sodium	80		1.5	3.6	36	mg/Kg-dry	1	7/13/2016 4:05 PM
Vanadium	18		0.092	0.72	1.8	mg/Kg-dry	1	7/13/2016 4:05 PM
Zinc	13		0.28	0.36	3.6	mg/Kg-dry	1	7/13/2016 4:05 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.15		0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 5:04 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
1,2-Dichlorobenzene	0.018	U	0.0079	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
2,4-Dichlorophenol	0.091	U	0.031	0.091	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
2,4-Dimethyl phenol	0.091	U	0.035	0.091	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.91	mg/Kg-dry	1	6/21/2016 8:11 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
2-Chlorophenol	0.091	U	0.038	0.091	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
2-Methylphenol (o-Cresol)	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
2-Nitroaniline	0.018	U	0.0089	0.018	0.35	mg/Kg-dry	1	6/21/2016 8:11 PM
2-Nitrophenol	0.091	U	0.045	0.091	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
3,3´-Dichlorobenzidine	0.73	U	0.47	0.73	1.1	mg/Kg-dry	1	6/21/2016 8:11 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/21/2016 8:11 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606425-013 **Matrix:** Soil
Client Sample ID: BG03-SB04-05 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.091	U	0.065	0.091	0.35	mg/Kg-dry	1	6/21/2016 8:11 PM
4,6-Dinitro-2-methylphenol	0.091	U	0.052	0.091	0.35	mg/Kg-dry	1	6/21/2016 8:11 PM
4-Bromophenyl phenyl ether	0.091	U	0.046	0.091	0.22	mg/Kg-dry	1	6/21/2016 8:11 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
4-Chloroaniline [p-Chloroaniline]	0.091	U	0.027	0.091	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
4-Nitroaniline	0.091	U	0.026	0.091	0.35	mg/Kg-dry	1	6/21/2016 8:11 PM
4-Nitrophenol	0.36	U	0.26	0.36	0.91	mg/Kg-dry	1	6/21/2016 8:11 PM
Benzoic acid	0.36	UYZ	0.15	0.36	1.1	mg/Kg-dry	1	6/21/2016 8:11 PM
Benzyl alcohol	0.018	U	0.0088	0.018	0.72	mg/Kg-dry	1	6/21/2016 8:11 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0076	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Bis(2-chloroethyl) ether	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0083	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Carbazole	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Di-n-butyl phthalate	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Dibenzofuran	0.018	U	0.0093	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Hexachlorobenzene	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	6/21/2016 8:11 PM
Hexachloroethane	0.018	U	0.0084	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
N-Nitrosodimethylamine	0.018	UY	0.0089	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
N-Nitrosodiphenylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Pentachlorophenol	0.091	UY	0.068	0.091	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Phenol	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	6/21/2016 8:11 PM
Surr: 2,4,6-Tribromophenol	80.3			39-132		%Rec	1	6/21/2016 8:11 PM
Surr: 2-Fluorobiphenyl	72.4			44-115		%Rec	1	6/21/2016 8:11 PM
Surr: 2-Fluorophenol	64.5			35-115		%Rec	1	6/21/2016 8:11 PM
Surr: Nitrobenzene-d5	68.6			37-122		%Rec	1	6/21/2016 8:11 PM
Surr: Phenol-d5	62.4			33-122		%Rec	1	6/21/2016 8:11 PM
Surr: Terphenyl-d14	79.0			54-127		%Rec	1	6/21/2016 8:11 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
2-Methylnaphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606425-013	**Matrix:**	Soil
Client Sample ID:	BG03-SB04-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00074	UQ	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Benzo(a)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Benzo(b)fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Benzo(g,h,i)perylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Benzo(k)fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Chrysene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Fluorene	0.00074	UQ	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Indeno(1,2,3-cd)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Naphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Phenanthrene	0.00074	UQ	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Pyrene	0.00074	UQ	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/3/2016 5:17 PM
Surr: 2-Fluorobiphenyl	78.6			46-115		%Rec	1	7/3/2016 5:17 PM
Surr: Nitrobenzene-d5	85.6			44-125		%Rec	1	7/3/2016 5:17 PM
Surr: Terphenyl-d14	98.1			58-133		%Rec	1	7/3/2016 5:17 PM

Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 11:35:00 AM
Project:	Camp Hero		
Lab ID:	1606425-014	**Matrix:**	Soil
Client Sample ID:	BG03-SS05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	22,000		130	350	880	mg/Kg-dry	200	7/13/2016 5:59 PM
Antimony	2.7		0.33	0.44	0.88	mg/Kg-dry	1	7/13/2016 4:06 PM
Arsenic	2.3		0.64	0.88	1.8	mg/Kg-dry	1	7/13/2016 4:06 PM
Barium	34		0.26	4.4	8.8	mg/Kg-dry	1	7/13/2016 4:06 PM
Beryllium	0.10	J	0.011	0.044	0.22	mg/Kg-dry	1	7/13/2016 4:06 PM
Cadmium	0.081	J	0.029	0.044	0.22	mg/Kg-dry	1	7/13/2016 4:06 PM
Calcium	380		2.6	8.8	44	mg/Kg-dry	1	7/13/2016 4:06 PM
Chromium	21		0.072	0.35	0.44	mg/Kg-dry	1	7/13/2016 4:06 PM
Cobalt	2.5		0.079	0.22	0.88	mg/Kg-dry	1	7/13/2016 4:06 PM
Copper	29		0.36	0.88	4.4	mg/Kg-dry	1	7/13/2016 4:06 PM
Iron	14,000		27	44	130	mg/Kg-dry	10	7/13/2016 4:58 PM
Lead	7.4		0.55	0.88	4.4	mg/Kg-dry	1	7/13/2016 4:06 PM
Magnesium	1,400		3.1	4.4	44	mg/Kg-dry	1	7/13/2016 4:06 PM
Manganese	86		0.16	0.22	0.88	mg/Kg-dry	1	7/13/2016 4:06 PM
Nickel	9.8		0.25	0.88	4.4	mg/Kg-dry	1	7/13/2016 4:06 PM
Potassium	700		2.0	8.8	18	mg/Kg-dry	1	7/13/2016 4:06 PM
Selenium	1.3	U	1.0	1.3	1.8	mg/Kg-dry	1	7/13/2016 4:06 PM
Silver	0.22	U	0.072	0.22	0.88	mg/Kg-dry	1	7/13/2016 4:06 PM
Sodium	58		1.8	4.4	44	mg/Kg-dry	1	7/13/2016 4:06 PM
Vanadium	27		0.11	0.88	2.2	mg/Kg-dry	1	7/13/2016 4:06 PM
Zinc	17		0.34	0.44	4.4	mg/Kg-dry	1	7/13/2016 4:06 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.084	J	0.042	0.043	0.17	mg/Kg-dry	10	7/15/2016 5:05 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
1,2-Dichlorobenzene	0.022	U	0.0094	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
1,3-Dichlorobenzene	0.022	U	0.0090	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
1,4-Dichlorobenzene	0.022	U	0.0070	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
2,4,5-Trichlorophenol	0.044	U	0.022	0.044	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
2,4,6-Trichlorophenol	0.044	U	0.024	0.044	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
2,4-Dichlorophenol	0.11	U	0.037	0.11	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
2,4-Dimethyl phenol	0.11	U	0.042	0.11	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
2,4-Dinitrophenol	0.22	UY	0.12	0.22	1.1	mg/Kg-dry	1	6/21/2016 8:36 PM
2,4-Dinitrotoluene	0.022	U	0.019	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
2,6-Dinitrotoluene	0.022	U	0.021	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
2-Chloronaphthalene	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
2-Chlorophenol	0.11	U	0.045	0.11	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
2-Methylphenol (o-Cresol)	0.11	U	0.047	0.11	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
2-Nitroaniline	0.022	U	0.011	0.022	0.42	mg/Kg-dry	1	6/21/2016 8:36 PM
2-Nitrophenol	0.11	U	0.054	0.11	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
3,3´-Dichlorobenzidine	0.87	U	0.56	0.87	1.3	mg/Kg-dry	1	6/21/2016 8:36 PM
3-Nitroaniline	0.022	U	0.015	0.022	0.42	mg/Kg-dry	1	6/21/2016 8:36 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 11:35:00 AM
Project: Camp Hero
Lab ID: 1606425-014 **Matrix:** Soil
Client Sample ID: BG03-SS05-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.11	U	0.078	0.11	0.42	mg/Kg-dry	1	6/21/2016 8:36 PM
4,6-Dinitro-2-methylphenol	0.11	U	0.063	0.11	0.42	mg/Kg-dry	1	6/21/2016 8:36 PM
4-Bromophenyl phenyl ether	0.11	U	0.055	0.11	0.26	mg/Kg-dry	1	6/21/2016 8:36 PM
4-Chloro-3-methylphenol	0.044	U	0.023	0.044	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
4-Chloroaniline [p-Chloroaniline]	0.11	U	0.033	0.11	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
4-Chlorophenyl phenyl ether	0.022	U	0.013	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
4-Nitroaniline	0.11	U	0.031	0.11	0.42	mg/Kg-dry	1	6/21/2016 8:36 PM
4-Nitrophenol	0.44	U	0.31	0.44	1.1	mg/Kg-dry	1	6/21/2016 8:36 PM
Benzoic acid	0.44	UYZ	0.18	0.44	1.3	mg/Kg-dry	1	6/21/2016 8:36 PM
Benzyl alcohol	0.022	U	0.010	0.022	0.86	mg/Kg-dry	1	6/21/2016 8:36 PM
Bis(2-chloroethoxy) methane	0.022	U	0.0091	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Bis(2-chloroethyl) ether	0.044	U	0.023	0.044	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Bis(2-chloroisopropyl)ether	0.022	UYZ	0.0099	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Bis(2-ethylhexyl) phthalate	0.044	U	0.038	0.044	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Butyl benzyl phthalate	0.044	U	0.026	0.044	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Carbazole	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Di-n-butyl phthalate	0.044	U	0.023	0.044	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Di-n-octyl phthalate	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Dibenzofuran	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Diethyl phthalate	0.022	U	0.016	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Dimethyl phthalate	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Hexachlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Hexachlorobutadiene	0.022	U	0.020	0.022	0.065	mg/Kg-dry	1	6/21/2016 8:36 PM
Hexachloroethane	0.022	U	0.010	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Isophorone	0.022	U	0.0090	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
N-Nitroso-di-n-propylamine	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
N-Nitrosodimethylamine	0.022	UY	0.011	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
N-Nitrosodiphenylamine	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Nitrobenzene	0.022	U	0.014	0.022	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Pentachlorophenol	0.11	UY	0.082	0.11	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Phenol	0.11	U	0.047	0.11	0.21	mg/Kg-dry	1	6/21/2016 8:36 PM
Surr: 2,4,6-Tribromophenol	61.4			39-132		%Rec	1	6/21/2016 8:36 PM
Surr: 2-Fluorobiphenyl	56.9			44-115		%Rec	1	6/21/2016 8:36 PM
Surr: 2-Fluorophenol	49.5			35-115		%Rec	1	6/21/2016 8:36 PM
Surr: Nitrobenzene-d5	52.1			37-122		%Rec	1	6/21/2016 8:36 PM
Surr: Phenol-d5	49.9			33-122		%Rec	1	6/21/2016 8:36 PM
Surr: Terphenyl-d14	58.9			54-127		%Rec	1	6/21/2016 8:36 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
2-Methylnaphthalene	0.0012		0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Acenaphthene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Acenaphthylene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Anthracene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 11:35:00 AM
Project:	Camp Hero		
Lab ID:	1606425-014	**Matrix:**	Soil
Client Sample ID:	BG03-SS05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00086	UQ	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Benzo(a)pyrene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Benzo(b)fluoranthene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Benzo(g,h,i)perylene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Benzo(k)fluoranthene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Chrysene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Dibenzo(a,h)anthracene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Fluoranthene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Fluorene	0.00086	UQ	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Indeno(1,2,3-cd)pyrene	0.00086	U	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Naphthalene	0.0012		0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Phenanthrene	0.00086	UQ	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Pyrene	0.00086	UQ	0.00086	0.00086	0.00086	mg/Kg-dry	1	7/3/2016 5:46 PM
Surr: 2-Fluorobiphenyl	73.6			46-115		%Rec	1	7/3/2016 5:46 PM
Surr: Nitrobenzene-d5	80.6			44-125		%Rec	1	7/3/2016 5:46 PM
Surr: Terphenyl-d14	92.5			58-133		%Rec	1	7/3/2016 5:46 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	24		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:40:00 PM
Project:	Camp Hero		
Lab ID:	1606425-015	**Matrix:**	Soil
Client Sample ID:	BG03-SS06-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	14,000		65	170	430	mg/Kg-dry	100	7/13/2016 5:44 PM
Antimony	2.3		0.33	0.43	0.87	mg/Kg-dry	1	7/13/2016 4:07 PM
Arsenic	1.9		0.63	0.87	1.7	mg/Kg-dry	1	7/13/2016 4:07 PM
Barium	21		0.26	4.3	8.7	mg/Kg-dry	1	7/13/2016 4:07 PM
Beryllium	0.036	J	0.011	0.043	0.22	mg/Kg-dry	1	7/13/2016 4:07 PM
Cadmium	0.067	J	0.029	0.043	0.22	mg/Kg-dry	1	7/13/2016 4:07 PM
Calcium	340		2.5	8.7	43	mg/Kg-dry	1	7/13/2016 4:07 PM
Chromium	16		0.071	0.35	0.43	mg/Kg-dry	1	7/13/2016 4:07 PM
Cobalt	2.1		0.078	0.22	0.87	mg/Kg-dry	1	7/13/2016 4:07 PM
Copper	24		0.36	0.87	4.3	mg/Kg-dry	1	7/13/2016 4:07 PM
Iron	11,000		27	43	130	mg/Kg-dry	10	7/13/2016 5:00 PM
Lead	5.5		0.54	0.87	4.3	mg/Kg-dry	1	7/13/2016 4:07 PM
Magnesium	1,200		3.0	4.3	43	mg/Kg-dry	1	7/13/2016 4:07 PM
Manganese	71		0.16	0.22	0.87	mg/Kg-dry	1	7/13/2016 4:07 PM
Nickel	7.1		0.24	0.87	4.3	mg/Kg-dry	1	7/13/2016 4:07 PM
Potassium	500		2.0	8.7	17	mg/Kg-dry	1	7/13/2016 4:07 PM
Selenium	1.3	U	1.0	1.3	1.7	mg/Kg-dry	1	7/13/2016 4:07 PM
Silver	0.22	U	0.071	0.22	0.87	mg/Kg-dry	1	7/13/2016 4:07 PM
Sodium	57		1.8	4.3	43	mg/Kg-dry	1	7/13/2016 4:07 PM
Vanadium	21		0.11	0.87	2.2	mg/Kg-dry	1	7/13/2016 4:07 PM
Zinc	13		0.33	0.43	4.3	mg/Kg-dry	1	7/13/2016 4:07 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.081	J	0.043	0.045	0.18	mg/Kg-dry	10	7/15/2016 5:06 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
1,2-Dichlorobenzene	0.022	U	0.0095	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
1,3-Dichlorobenzene	0.022	U	0.0091	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
1,4-Dichlorobenzene	0.022	U	0.0070	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
2,4,5-Trichlorophenol	0.044	U	0.022	0.044	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
2,4,6-Trichlorophenol	0.044	U	0.024	0.044	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
2,4-Dichlorophenol	0.11	U	0.038	0.11	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
2,4-Dimethyl phenol	0.11	U	0.042	0.11	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
2,4-Dinitrophenol	0.22	UY	0.12	0.22	1.1	mg/Kg-dry	1	6/21/2016 9:01 PM
2,4-Dinitrotoluene	0.022	U	0.019	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
2,6-Dinitrotoluene	0.022	U	0.021	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
2-Chloronaphthalene	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
2-Chlorophenol	0.11	U	0.046	0.11	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
2-Methylphenol (o-Cresol)	0.11	U	0.047	0.11	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
2-Nitroaniline	0.022	U	0.011	0.022	0.42	mg/Kg-dry	1	6/21/2016 9:01 PM
2-Nitrophenol	0.11	U	0.054	0.11	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
3,3´-Dichlorobenzidine	0.88	U	0.56	0.88	1.3	mg/Kg-dry	1	6/21/2016 9:01 PM
3-Nitroaniline	0.022	U	0.015	0.022	0.42	mg/Kg-dry	1	6/21/2016 9:01 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 12:40:00 PM
Project: Camp Hero
Lab ID: 1606425-015 **Matrix:** Soil
Client Sample ID: BG03-SS06-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.11	U	0.078	0.11	0.42	mg/Kg-dry	1	6/21/2016 9:01 PM
4,6-Dinitro-2-methylphenol	0.11	U	0.063	0.11	0.42	mg/Kg-dry	1	6/21/2016 9:01 PM
4-Bromophenyl phenyl ether	0.11	U	0.056	0.11	0.26	mg/Kg-dry	1	6/21/2016 9:01 PM
4-Chloro-3-methylphenol	0.044	U	0.023	0.044	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
4-Chloroaniline [p-Chloroaniline]	0.11	U	0.033	0.11	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
4-Chlorophenyl phenyl ether	0.022	U	0.013	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
4-Nitroaniline	0.11	U	0.032	0.11	0.42	mg/Kg-dry	1	6/21/2016 9:01 PM
4-Nitrophenol	0.44	U	0.31	0.44	1.1	mg/Kg-dry	1	6/21/2016 9:01 PM
Benzoic acid	0.44	UYZ	0.18	0.44	1.3	mg/Kg-dry	1	6/21/2016 9:01 PM
Benzyl alcohol	0.022	U	0.011	0.022	0.87	mg/Kg-dry	1	6/21/2016 9:01 PM
Bis(2-chloroethoxy) methane	0.022	U	0.0091	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Bis(2-chloroethyl) ether	0.044	U	0.024	0.044	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Bis(2-chloroisopropyl)ether	0.022	UYZ	0.010	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Bis(2-ethylhexyl) phthalate	0.044	U	0.039	0.044	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Butyl benzyl phthalate	0.044	U	0.026	0.044	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Carbazole	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Di-n-butyl phthalate	0.044	U	0.024	0.044	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Di-n-octyl phthalate	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Dibenzofuran	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Diethyl phthalate	0.022	U	0.016	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Dimethyl phthalate	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Hexachlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Hexachlorobutadiene	0.022	U	0.020	0.022	0.066	mg/Kg-dry	1	6/21/2016 9:01 PM
Hexachloroethane	0.022	U	0.010	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Isophorone	0.022	U	0.0091	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
N-Nitroso-di-n-propylamine	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
N-Nitrosodimethylamine	0.022	UY	0.011	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
N-Nitrosodiphenylamine	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Nitrobenzene	0.022	U	0.014	0.022	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Pentachlorophenol	0.11	UY	0.082	0.11	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Phenol	0.11	U	0.047	0.11	0.21	mg/Kg-dry	1	6/21/2016 9:01 PM
Surr: 2,4,6-Tribromophenol	67.7			39-132		%Rec	1	6/21/2016 9:01 PM
Surr: 2-Fluorobiphenyl	59.1			44-115		%Rec	1	6/21/2016 9:01 PM
Surr: 2-Fluorophenol	53.6			35-115		%Rec	1	6/21/2016 9:01 PM
Surr: Nitrobenzene-d5	56.5			37-122		%Rec	1	6/21/2016 9:01 PM
Surr: Phenol-d5	54.2			33-122		%Rec	1	6/21/2016 9:01 PM
Surr: Terphenyl-d14	64.4			54-127		%Rec	1	6/21/2016 9:01 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
2-Methylnaphthalene	0.0012		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Acenaphthene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Acenaphthylene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Anthracene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 12:40:00 PM
Project:	Camp Hero		
Lab ID:	1606425-015	**Matrix:**	Soil
Client Sample ID:	BG03-SS06-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00088	UQ	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Benzo(a)pyrene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Benzo(b)fluoranthene	0.0015		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Benzo(g,h,i)perylene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Benzo(k)fluoranthene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Chrysene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Dibenzo(a,h)anthracene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Fluoranthene	0.0012		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Fluorene	0.00088	UQ	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Indeno(1,2,3-cd)pyrene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Naphthalene	0.0011		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Phenanthrene	0.0013	Q	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Pyrene	0.0012	Q	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/3/2016 6:14 PM
Surr: 2-Fluorobiphenyl	76.5			46-115		%Rec	1	7/3/2016 6:14 PM
Surr: Nitrobenzene-d5	88.9			44-125		%Rec	1	7/3/2016 6:14 PM
Surr: Terphenyl-d14	97.0			58-133		%Rec	1	7/3/2016 6:14 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	25		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 1:05:00 PM
Project:	Camp Hero		
Lab ID:	1606425-016	**Matrix:**	Soil
Client Sample ID:	BG03-SS07-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,300		58	150	390	mg/Kg-dry	100	7/14/2016 3:09 PM
Antimony	1.2		0.29	0.39	0.77	mg/Kg-dry	1	7/14/2016 2:18 PM
Arsenic	1.6		0.56	0.77	1.5	mg/Kg-dry	1	7/14/2016 2:18 PM
Barium	14		0.23	3.9	7.7	mg/Kg-dry	1	7/14/2016 2:18 PM
Beryllium	0.039	U	0.0098	0.039	0.19	mg/Kg-dry	1	7/14/2016 2:18 PM
Cadmium	0.033	J	0.025	0.039	0.19	mg/Kg-dry	1	7/14/2016 2:18 PM
Calcium	540		2.3	7.7	39	mg/Kg-dry	1	7/14/2016 2:18 PM
Chromium	11		0.064	0.31	0.39	mg/Kg-dry	1	7/14/2016 2:18 PM
Cobalt	1.4	G	0.069	0.19	0.77	mg/Kg-dry	1	7/14/2016 2:18 PM
Copper	22		0.32	0.77	3.9	mg/Kg-dry	1	7/14/2016 2:18 PM
Iron	11,000		240	390	1,200	mg/Kg-dry	100	7/14/2016 3:09 PM
Lead	3.9	J	0.48	0.77	3.9	mg/Kg-dry	1	7/14/2016 2:18 PM
Magnesium	820		2.7	3.9	39	mg/Kg-dry	1	7/14/2016 2:18 PM
Manganese	94		0.14	0.19	0.77	mg/Kg-dry	1	7/14/2016 2:18 PM
Nickel	3.9		0.22	0.77	3.9	mg/Kg-dry	1	7/14/2016 2:18 PM
Potassium	330		1.8	7.7	15	mg/Kg-dry	1	7/14/2016 2:18 PM
Selenium	1.2	U	0.90	1.2	1.5	mg/Kg-dry	1	7/14/2016 2:18 PM
Silver	0.19	U	0.063	0.19	0.77	mg/Kg-dry	1	7/14/2016 2:18 PM
Sodium	60		1.6	3.9	39	mg/Kg-dry	1	7/14/2016 2:18 PM
Vanadium	18		0.098	0.77	1.9	mg/Kg-dry	1	7/14/2016 2:18 PM
Zinc	10		0.30	0.39	3.9	mg/Kg-dry	1	7/14/2016 2:18 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.068	J	0.038	0.039	0.16	mg/Kg-dry	10	7/15/2016 5:07 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
1,2-Dichlorobenzene	0.020	U	0.0087	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
1,3-Dichlorobenzene	0.020	U	0.0083	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
1,4-Dichlorobenzene	0.020	U	0.0064	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
2,4,5-Trichlorophenol	0.040	U	0.020	0.040	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
2,4,6-Trichlorophenol	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
2,4-Dichlorophenol	0.10	U	0.034	0.10	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
2,4-Dimethyl phenol	0.10	U	0.038	0.10	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
2,4-Dinitrophenol	0.20	UY	0.11	0.20	1.0	mg/Kg-dry	1	6/21/2016 9:26 PM
2,4-Dinitrotoluene	0.020	U	0.018	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
2,6-Dinitrotoluene	0.020	U	0.019	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
2-Chloronaphthalene	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
2-Chlorophenol	0.10	U	0.042	0.10	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
2-Methylphenol (o-Cresol)	0.10	U	0.043	0.10	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
2-Nitroaniline	0.020	U	0.0098	0.020	0.39	mg/Kg-dry	1	6/21/2016 9:26 PM
2-Nitrophenol	0.10	U	0.050	0.10	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
3,3´-Dichlorobenzidine	0.80	U	0.51	0.80	1.2	mg/Kg-dry	1	6/21/2016 9:26 PM
3-Nitroaniline	0.020	U	0.014	0.020	0.39	mg/Kg-dry	1	6/21/2016 9:26 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/10/2016 1:05:00 PM
Project: Camp Hero
Lab ID: 1606425-016 **Matrix:** Soil
Client Sample ID: BG03-SS07-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	0.10	U	0.072	0.10	0.39	mg/Kg-dry	1	6/21/2016 9:26 PM
4,6-Dinitro-2-methylphenol	0.10	U	0.058	0.10	0.39	mg/Kg-dry	1	6/21/2016 9:26 PM
4-Bromophenyl phenyl ether	0.10	U	0.051	0.10	0.24	mg/Kg-dry	1	6/21/2016 9:26 PM
4-Chloro-3-methylphenol	0.040	U	0.021	0.040	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
4-Chloroaniline [p-Chloroaniline]	0.10	U	0.030	0.10	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
4-Chlorophenyl phenyl ether	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
4-Nitroaniline	0.10	U	0.029	0.10	0.39	mg/Kg-dry	1	6/21/2016 9:26 PM
4-Nitrophenol	0.40	U	0.29	0.40	1.0	mg/Kg-dry	1	6/21/2016 9:26 PM
Benzoic acid	0.47	JYZ	0.16	0.40	1.2	mg/Kg-dry	1	6/21/2016 9:26 PM
Benzyl alcohol	0.020	U	0.0097	0.020	0.80	mg/Kg-dry	1	6/21/2016 9:26 PM
Bis(2-chloroethoxy) methane	0.020	U	0.0084	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Bis(2-chloroethyl) ether	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Bis(2-chloroisopropyl)ether	0.020	UYZ	0.0092	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Bis(2-ethylhexyl) phthalate	0.040	U	0.036	0.040	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Butyl benzyl phthalate	0.040	U	0.024	0.040	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Carbazole	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Di-n-butyl phthalate	0.040	U	0.022	0.040	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Di-n-octyl phthalate	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Dibenzofuran	0.020	U	0.010	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Diethyl phthalate	0.020	U	0.015	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Dimethyl phthalate	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Hexachlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Hexachlorobutadiene	0.020	U	0.018	0.020	0.060	mg/Kg-dry	1	6/21/2016 9:26 PM
Hexachloroethane	0.020	U	0.0093	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Isophorone	0.020	U	0.0083	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
N-Nitroso-di-n-propylamine	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
N-Nitrosodimethylamine	0.020	UY	0.0098	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
N-Nitrosodiphenylamine	0.020	U	0.0097	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Nitrobenzene	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Pentachlorophenol	0.10	UY	0.076	0.10	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Phenol	0.10	U	0.043	0.10	0.19	mg/Kg-dry	1	6/21/2016 9:26 PM
Surr: 2,4,6-Tribromophenol	41.2			39-132		%Rec	1	6/21/2016 9:26 PM
Surr: 2-Fluorobiphenyl	36.8	Q		44-115		%Rec	1	6/21/2016 9:26 PM
Surr: 2-Fluorophenol	34.7	JQ		35-115		%Rec	1	6/21/2016 9:26 PM
Surr: Nitrobenzene-d5	34.0	Q		37-122		%Rec	1	6/21/2016 9:26 PM
Surr: Phenol-d5	32.7	JQ		33-122		%Rec	1	6/21/2016 9:26 PM
Surr: Terphenyl-d14	40.6	Q		54-127		%Rec	1	6/21/2016 9:26 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0018		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
2-Methylnaphthalene	0.0037		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Acenaphthene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Acenaphthylene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Anthracene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM

RTI Laboratories - Analytical Report

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 1:05:00 PM
Project:	Camp Hero		
Lab ID:	1606425-016	**Matrix:**	Soil
Client Sample ID:	BG03-SS07-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.0028	Q	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Benzo(a)pyrene	0.0022		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Benzo(b)fluoranthene	0.0048		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Benzo(g,h,i)perylene	0.0013		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Benzo(k)fluoranthene	0.00095		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Chrysene	0.0019		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Dibenzo(a,h)anthracene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Fluoranthene	0.0048		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Fluorene	0.00081	UQ	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Indeno(1,2,3-cd)pyrene	0.0012		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Naphthalene	0.0036		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Phenanthrene	0.0037	Q	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Pyrene	0.0049	Q	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/3/2016 6:43 PM
Surr: 2-Fluorobiphenyl	72.3			46-115		%Rec	1	7/3/2016 6:43 PM
Surr: Nitrobenzene-d5	83.4			44-125		%Rec	1	7/3/2016 6:43 PM
Surr: Terphenyl-d14	95.5			58-133		%Rec	1	7/3/2016 6:43 PM

Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	18		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

RTI Laboratories - DATES REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606425-001A	BG03-SS01-01	6/10/2016 12:50 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 8:47 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 12:06 PM
1606425-001B	BG03-SS01-01	6/10/2016 12:50 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:16 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:38 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:36 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:19 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-002A	BG03-SB01-05	6/10/2016 12:55 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 9:11 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 12:34 PM
1606425-002B	BG03-SB01-05	6/10/2016 12:55 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:17 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:39 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:37 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:20 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-003A	BG03-SB01-10	6/10/2016 1:00 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 9:36 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 1:03 PM
1606425-003B	BG03-SB01-10	6/10/2016 1:00 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 4:46 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:41 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:39 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:22 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-004A	BG03-SS02-01	6/10/2016 11:45 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 10:01 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 1:31 PM
1606425-004B	BG03-SS02-01	6/10/2016 11:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 4:46 PM

RTI Laboratories - DATES REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606425-004B	BG03-SS02-01	6/10/2016 11:45 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:42 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:40 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:23 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-005A	BG03-SB02-05	6/10/2016 11:50 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 3:03 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 10:40 AM
1606425-005B	BG03-SB02-05	6/10/2016 11:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 4:42 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:17 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:28 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:11 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-006A	BG03-SB02-10	6/10/2016 11:55 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 10:25 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 2:00 PM
1606425-006B	BG03-SB02-10	6/10/2016 11:55 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 4:47 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:55 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:48 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:33 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-007A	BG03-SS03-01	6/10/2016 12:00 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/20/2016 10:50 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 2:28 PM
1606425-007B	BG03-SS03-01	6/10/2016 12:00 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 4:48 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:56 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:49 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:34 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:58 PM

RTI Laboratories - DATES REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606425-007B	BG03-SS03-01	6/10/2016 12:00 PM	Soil				
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-008A	BG03-SB03-05	6/10/2016 12:05 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/21/2016 6:09 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 2:57 PM
1606425-008B	BG03-SB03-05	6/10/2016 12:05 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 4:49 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:58 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:51 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:35 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-009A	BG03-SB03-10	6/10/2016 12:10 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/21/2016 6:34 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 3:25 PM
1606425-009B	BG03-SB03-10	6/10/2016 12:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 4:50 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 3:59 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:52 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:37 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-010A	BG03-SS04-01	6/10/2016 12:25 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/21/2016 6:58 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 3:53 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/27/2016 1:08 PM
1606425-010B	BG03-SS04-01	6/10/2016 12:25 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 4:51 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:01 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:53 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:38 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-011A	BG03-SB04-04	6/10/2016 12:35 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/21/2016 7:23 PM

RTI Laboratories - DATES REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606425-011A	BG03-SB04-04	6/10/2016 12:35 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 4:21 PM
1606425-011B	BG03-SB04-04	6/10/2016 12:35 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 4:51 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:02 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:54 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:39 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-012A	BG03-SB04-05	6/10/2016 12:30 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/21/2016 7:47 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 4:49 PM
1606425-012B	BG03-SB04-05	6/10/2016 12:30 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 4:52 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:03 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:56 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:40 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-013A	BG03-SB04-05 DUP	6/10/2016 12:30 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/21/2016 8:11 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 5:17 PM
1606425-013B	BG03-SB04-05 DUP	6/10/2016 12:30 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 5:04 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:05 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:57 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:42 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-014A	BG03-SS05-01	6/10/2016 11:35 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/21/2016 8:36 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 5:46 PM
1606425-014B	BG03-SS05-01	6/10/2016 11:35 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 5:05 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:06 PM

RTI Laboratories - DATES REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606425-014B	BG03-SS05-01	6/10/2016 11:35 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:58 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:43 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:59 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-015A	BG03-SS06-01	6/10/2016 12:40 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/21/2016 9:01 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 6:14 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/27/2016 1:36 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/27/2016 6:18 PM
1606425-015B	BG03-SS06-01	6/10/2016 12:40 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 5:06 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 4:07 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:00 PM
				SW_6010S-Metals, ICP/OES		6/21/2016 11:39 AM	7/13/2016 5:44 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606425-016A	BG03-SS07-01	6/10/2016 1:05 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/21/2016 9:26 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/17/2016 12:22 PM	6/22/2016 3:56 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/3/2016 6:43 PM
1606425-016B	BG03-SS07-01	6/10/2016 1:05 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 5:07 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:18 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:09 PM
				PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**MB-40191**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**PBS**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1684396**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.16	0.16									U
1,2-Dichlorobenzene	0.16	0.16									U
1,3-Dichlorobenzene	0.16	0.16									U
1,4-Dichlorobenzene	0.16	0.16									U
2,4,5-Trichlorophenol	0.16	0.16									U
2,4,6-Trichlorophenol	0.16	0.16									U
2,4-Dichlorophenol	0.16	0.16									U
2,4-Dimethyl phenol	0.16	0.16									U
2,4-Dinitrophenol	0.82	0.82									UY
2,4-Dinitrotoluene	0.16	0.16									U
2,6-Dinitrotoluene	0.16	0.16									U
2-Chloronaphthalene	0.16	0.16									U
2-Chlorophenol	0.16	0.16									U
2-Methylphenol (o-Cresol)	0.16	0.16									U
2-Nitroaniline	0.32	0.32									U
2-Nitrophenol	0.16	0.16									U
3,3´-Dichlorobenzidine	0.99	0.99									U
3-Nitroaniline	0.32	0.32									U
3/4-Methylphenol [m/p-Cresol]	0.32	0.32									U
4,6-Dinitro-2-methylphenol	0.32	0.32									UY
4-Bromophenyl phenyl ether	0.20	0.20									U
4-Chloro-3-methylphenol	0.16	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.16	0.16									U
4-Chlorophenyl phenyl ether	0.16	0.16									U
4-Nitroaniline	0.32	0.32									U
4-Nitrophenol	0.82	0.82									U
Benzoic acid	0.99	0.99									UYZ
Benzyl alcohol	0.65	0.65									U
Bis(2-chloroethoxy) methane	0.16	0.16									U
Bis(2-chloroethyl) ether	0.16	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	MB-40191	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	PBS	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1684396

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.16	0.16									UYZ
Bis(2-ethylhexyl) phthalate	0.16	0.16									U
Butyl benzyl phthalate	0.16	0.16									U
Carbazole	0.16	0.16									U
Di-n-butyl phthalate	0.16	0.16									U
Di-n-octyl phthalate	0.16	0.16									U
Dibenzofuran	0.16	0.16									U
Diethyl phthalate	0.16	0.16									U
Dimethyl phthalate	0.16	0.16									U
Hexachlorobenzene	0.16	0.16									U
Hexachlorobutadiene	0.049	0.049									U
Hexachloroethane	0.16	0.16									U
Isophorone	0.16	0.16									U
N-Nitroso-di-n-propylamine	0.16	0.16									U
N-Nitrosodimethylamine	0.16	0.16									UY
N-Nitrosodiphenylamine	0.16	0.16									U
Nitrobenzene	0.16	0.16									U
Pentachlorophenol	0.16	0.16									UY
Phenol	0.16	0.16									U
Surr: 2,4,6-Tribromophenol	750		824.8		90.9	39	132				
Surr: 2-Fluorobiphenyl	670		824.8		81.8	44	115				
Surr: 2-Fluorophenol	500		824.8		60.4	35	115				
Surr: Nitrobenzene-d5	590		824.8		71.7	37	122				
Surr: Phenol-d5	490		824.8		59.5	33	122				
Surr: Terphenyl-d14	710		824.8		86.4	54	127				

Sample ID:	LCS-40191	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	LCSS	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711437

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.53	0.16	0.66	0	79.7	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**LCS-40191**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**LCSS**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711437**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.50	0.16	0.66	0	76.1	33	117				
1,3-Dichlorobenzene	0.49	0.16	0.66	0	74.3	30	115				
1,4-Dichlorobenzene	0.50	0.16	0.66	0	75.0	31	115				
2,4,5-Trichlorophenol	0.57	0.16	0.66	0	86.9	41	124				
2,4,6-Trichlorophenol	0.63	0.16	0.66	0	95.7	39	126				
2,4-Dichlorophenol	0.40	0.16	0.66	0	60.7	40	122				
2,4-Dimethyl phenol	0.51	0.16	0.66	0	77.7	30	127				
2,4-Dinitrophenol	1.8	0.82	1.7	0	107	50	130				JY
2,4-Dinitrotoluene	0.64	0.16	0.66	0	96.7	48	126				
2,6-Dinitrotoluene	0.57	0.16	0.66	0	86.4	46	124				
2-Chloronaphthalene	0.49	0.16	0.66	0	73.9	41	114				
2-Chlorophenol	0.54	0.16	0.66	0	81.6	34	121				
2-Methylphenol (o-Cresol)	0.54	0.16	0.66	0	81.5	32	122				
2-Nitroaniline	0.54	0.32	0.66	0	81.8	44	127				
2-Nitrophenol	0.60	0.16	0.66	0	90.3	36	123				
3,3´-Dichlorobenzidine	0.55	0.99	0.66	0	83.4	22	121				J
3-Nitroaniline	0.55	0.32	0.66	0	83.8	33	119				
3/4-Methylphenol [m/p-Cresol]	0.98	0.32	1.3	0	73.9	34	119				
4,6-Dinitro-2-methylphenol	0.75	0.32	0.66	0	113	29	132				Y
4-Bromophenyl phenyl ether	0.50	0.20	0.66	0	75.0	46	124				
4-Chloro-3-methylphenol	0.62	0.16	0.66	0	93.6	45	122				
4-Chloroaniline [p-Chloroaniline]	0.43	0.16	0.66	0	65.4	17	106				
4-Chlorophenyl phenyl ether	0.57	0.16	0.66	0	86.5	45	121				
4-Nitroaniline	0.51	0.32	0.66	0	76.7	50	130				
4-Nitrophenol	1.4	0.82	1.7	0	83.6	30	132				
Benzoic acid	1.4	0.99	1.3	0	106	40	117				YZ
Benzyl alcohol	0.48	0.65	0.66	0	72.1	29	122				J
Bis(2-chloroethoxy) methane	0.47	0.16	0.66	0	71.5	36	121				
Bis(2-chloroethyl) ether	0.45	0.16	0.66	0	67.8	31	120				
Bis(2-chloroisopropyl)ether	0.47	0.16	0.66	0	71.5	33	131				YZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**LCS-40191**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**LCSS**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711437**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.57	0.16	0.66	0	86.3	51	133				
Butyl benzyl phthalate	0.56	0.16	0.66	0	84.9	48	132				
Carbazole	0.53	0.16	0.66	0	80.3	50	123				
Di-n-butyl phthalate	0.53	0.16	0.66	0	79.7	51	128				
Di-n-octyl phthalate	0.54	0.16	0.66	0	82.2	45	140				
Dibenzofuran	0.53	0.16	0.66	0	80.8	44	120				
Diethyl phthalate	0.56	0.16	0.66	0	84.6	50	124				
Dimethyl phthalate	0.53	0.16	0.66	0	80.9	48	124				
Hexachlorobenzene	0.49	0.16	0.66	0	74.6	45	122				
Hexachlorobutadiene	0.57	0.050	0.66	0	85.5	32	123				
Hexachloroethane	0.48	0.16	0.66	0	73.1	28	117				
Isophorone	0.47	0.16	0.66	0	70.8	30	122				
N-Nitroso-di-n-propylamine	0.49	0.16	0.66	0	74.3	50	130				
N-Nitrosodimethylamine	0.39	0.16	0.66	0	59.6	23	120				Y
N-Nitrosodiphenylamine	0.49	0.16	0.66	0	74.3	38	127				
Nitrobenzene	0.48	0.16	0.66	0	73.3	34	122				
Pentachlorophenol	0.70	0.16	0.66	0	106	25	133				Y
Phenol	0.53	0.16	0.66	0	80.1	34	121				
Surr: 2,4,6-Tribromophenol	810		826.4		98.1	39	132				
Surr: 2-Fluorobiphenyl	690		826.4		83.1	44	115				
Surr: 2-Fluorophenol	630		826.4		76.3	35	115				
Surr: Nitrobenzene-d5	690		826.4		83.9	37	122				
Surr: Phenol-d5	670		826.4		81.6	33	122				
Surr: Terphenyl-d14	760		826.4		92.3	54	127				

Sample ID:	**1606425-005AMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**BG03-SB02-05MS1**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711438**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.55	0.17	0.72	0	75.6	34	118				
1,2-Dichlorobenzene	0.53	0.17	0.72	0	73.8	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40191

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	BG03-SB02-05MS1	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.51	0.17	0.72	0	71.0	30	115				
1,4-Dichlorobenzene	0.50	0.17	0.72	0	69.7	31	115				
2,4,5-Trichlorophenol	0.63	0.17	0.72	0	87.6	41	124				
2,4,6-Trichlorophenol	0.66	0.17	0.72	0	91.8	39	126				
2,4-Dichlorophenol	0.64	0.17	0.72	0	88.7	40	122				
2,4-Dimethyl phenol	0.51	0.17	0.72	0	70.6	30	127				
2,4-Dinitrophenol	1.9	0.90	1.8	0	105	50	130				JY
2,4-Dinitrotoluene	0.65	0.17	0.72	0	90.1	48	126				
2,6-Dinitrotoluene	0.59	0.17	0.72	0	81.5	46	124				
2-Chloronaphthalene	0.49	0.17	0.72	0	68.4	41	114				
2-Chlorophenol	0.55	0.17	0.72	0	76.5	34	121				
2-Methylphenol (o-Cresol)	0.56	0.17	0.72	0	77.9	32	122				
2-Nitroaniline	0.58	0.35	0.72	0	80.3	44	127				
2-Nitrophenol	0.65	0.17	0.72	0	89.7	36	123				
3,3´-Dichlorobenzidine	1.1	1.1	0.72	0	0	22	121				QU
3-Nitroaniline	0.58	0.35	0.72	0	80.0	33	119				
3/4-Methylphenol [m/p-Cresol]	1.1	0.35	1.4	0	73.8	42	126				
4,6-Dinitro-2-methylphenol	0.78	0.35	0.72	0	108	29	132				Y
4-Bromophenyl phenyl ether	0.53	0.22	0.72	0	73.5	46	124				
4-Chloro-3-methylphenol	0.66	0.17	0.72	0	91.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.49	0.17	0.72	0	68.2	17	106				
4-Chlorophenyl phenyl ether	0.60	0.17	0.72	0	83.4	45	121				
4-Nitroaniline	0.54	0.35	0.72	0	74.4	50	130				
4-Nitrophenol	1.6	0.90	1.8	0	86.1	30	132				
Benzoic acid	2.7	1.1	1.4	0	188	40	117				JQYZ
Benzyl alcohol	0.53	0.72	0.72	0	73.1	29	122				J
Bis(2-chloroethoxy) methane	0.50	0.17	0.72	0	68.9	36	121				
Bis(2-chloroethyl) ether	0.78	0.17	0.72	0	108	31	120				
Bis(2-chloroisopropyl)ether	0.49	0.17	0.72	0	67.3	33	131				YZ
Bis(2-ethylhexyl) phthalate	0.61	0.17	0.72	0	84.7	51	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	BG03-SB02-05MS1	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.60	0.17	0.72	0	82.9	48	132				
Carbazole	0.56	0.17	0.72	0	77.1	50	123				
Di-n-butyl phthalate	0.55	0.17	0.72	0	76.2	51	128				
Di-n-octyl phthalate	0.60	0.17	0.72	0	82.4	45	140				
Dibenzofuran	0.55	0.17	0.72	0	76.5	44	120				
Diethyl phthalate	0.58	0.17	0.72	0	80.2	50	124				
Dimethyl phthalate	0.57	0.17	0.72	0	78.5	48	124				
Hexachlorobenzene	0.54	0.17	0.72	0	74.1	45	122				
Hexachlorobutadiene	0.58	0.054	0.72	0	79.9	32	123				
Hexachloroethane	0.49	0.17	0.72	0	68.2	28	117				
Isophorone	0.49	0.17	0.72	0	67.5	30	122				
N-Nitroso-di-n-propylamine	0.52	0.17	0.72	0	71.4	50	130				
N-Nitrosodimethylamine	0.41	0.17	0.72	0	56.9	23	120				Y
N-Nitrosodiphenylamine	0.49	0.17	0.72	0	68.4	38	127				
Nitrobenzene	0.51	0.17	0.72	0	70.9	34	122				
Pentachlorophenol	0.77	0.17	0.72	0	106	25	133				Y
Phenol	0.54	0.17	0.72	0	74.1	34	121				
Surr: 2,4,6-Tribromophenol	840		904.1		92.4	39	132				
Surr: 2-Fluorobiphenyl	710		904.1		78.8	44	115				
Surr: 2-Fluorophenol	670		904.1		74.4	35	115				
Surr: Nitrobenzene-d5	720		904.1		79.5	37	122				
Surr: Phenol-d5	720		904.1		79.2	33	122				
Surr: Terphenyl-d14	800		904.1		88.0	54	127				

Sample ID:	1606425-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	86814
Client ID:	BG03-SB02-05SD1	Batch ID:	40191	TestNo:	SW8270C	SW3546		Analysis Date:	6/20/2016	SeqNo:	1711439

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.51	0.17	0.72	0	70.6	34	118	0.55	7.00	25	
1,2-Dichlorobenzene	0.49	0.17	0.72	0	67.9	33	117	0.53	8.56	25	
1,3-Dichlorobenzene	0.48	0.17	0.72	0	67.1	30	115	0.51	5.81	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**1606425-005AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**BG03-SB02-05SD1**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711439**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.48	0.17	0.72	0	66.7	31	115	0.50	4.56	25	
2,4,5-Trichlorophenol	0.58	0.17	0.72	0	80.3	41	124	0.63	8.85	25	
2,4,6-Trichlorophenol	0.62	0.17	0.72	0	85.4	39	126	0.66	7.44	25	
2,4-Dichlorophenol	0.60	0.17	0.72	0	83.6	40	122	0.64	6.08	25	
2,4-Dimethyl phenol	0.49	0.17	0.72	0	67.5	30	127	0.51	4.65	25	
2,4-Dinitrophenol	1.8	0.90	1.8	0	97.4	50	130	1.9	7.31	25	Y
2,4-Dinitrotoluene	0.60	0.17	0.72	0	83.1	48	126	0.65	8.30	25	
2,6-Dinitrotoluene	0.54	0.17	0.72	0	75.4	46	124	0.59	8.00	25	
2-Chloronaphthalene	0.47	0.17	0.72	0	65.1	41	114	0.49	5.11	25	
2-Chlorophenol	0.52	0.17	0.72	0	72.1	34	121	0.55	6.08	25	
2-Methylphenol (o-Cresol)	0.53	0.17	0.72	0	73.1	32	122	0.56	6.45	25	
2-Nitroaniline	0.55	0.35	0.72	0	76.0	44	127	0.58	5.67	25	
2-Nitrophenol	0.62	0.17	0.72	0	85.4	36	123	0.65	5.13	25	
3,3´-Dichlorobenzidine	1.1	1.1	0.72	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.55	0.35	0.72	0	75.8	33	119	0.58	5.55	25	
3/4-Methylphenol [m/p-Cresol]	0.99	0.35	1.4	0	68.5	42	126	1.1	7.58	25	
4,6-Dinitro-2-methylphenol	0.73	0.35	0.72	0	101	29	132	0.78	6.93	25	Y
4-Bromophenyl phenyl ether	0.48	0.22	0.72	0	66.2	46	124	0.53	10.5	25	
4-Chloro-3-methylphenol	0.62	0.17	0.72	0	85.2	45	122	0.66	6.96	25	
4-Chloroaniline [p-Chloroaniline]	0.47	0.17	0.72	0	64.6	17	106	0.49	5.66	25	
4-Chlorophenyl phenyl ether	0.56	0.17	0.72	0	77.5	45	121	0.60	7.56	25	
4-Nitroaniline	0.49	0.35	0.72	0	67.7	50	130	0.54	9.52	25	
4-Nitrophenol	1.4	0.90	1.8	0	76.0	30	132	1.6	12.6	25	
Benzoic acid	2.9	1.1	1.4	0	200	40	117	2.7	5.87	25	JQYZ
Benzyl alcohol	0.51	0.71	0.72	0	70.1	29	122	0.53	4.35	25	J
Bis(2-chloroethoxy) methane	0.47	0.17	0.72	0	64.6	36	121	0.50	6.60	25	
Bis(2-chloroethyl) ether	0.69	0.17	0.72	0	95.2	31	120	0.78	12.9	25	
Bis(2-chloroisopropyl)ether	0.45	0.17	0.72	0	62.3	33	131	0.49	7.88	25	YZ
Bis(2-ethylhexyl) phthalate	0.56	0.17	0.72	0	77.0	51	133	0.61	9.75	25	
Butyl benzyl phthalate	0.55	0.17	0.72	0	75.8	48	132	0.60	9.10	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40191**

Sample ID:	**1606425-005AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/17/2016**	RunNo:	**86814**
Client ID:	**BG03-SB02-05SD1**	Batch ID:	**40191**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/20/2016**	SeqNo:	**1711439**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.50	0.17	0.72	0	69.6	50	123	0.56	10.3	25	
Di-n-butyl phthalate	0.52	0.17	0.72	0	71.6	51	128	0.55	6.45	25	
Di-n-octyl phthalate	0.54	0.17	0.72	0	74.2	45	140	0.60	10.6	25	
Dibenzofuran	0.52	0.17	0.72	0	72.1	44	120	0.55	6.15	25	
Diethyl phthalate	0.55	0.17	0.72	0	75.9	50	124	0.58	5.67	25	
Dimethyl phthalate	0.52	0.17	0.72	0	72.5	48	124	0.57	8.17	25	
Hexachlorobenzene	0.48	0.17	0.72	0	67.1	45	122	0.54	10.0	25	
Hexachlorobutadiene	0.55	0.054	0.72	0	75.7	32	123	0.58	5.62	25	
Hexachloroethane	0.46	0.17	0.72	0	63.5	28	117	0.49	7.30	25	
Isophorone	0.45	0.17	0.72	0	62.9	30	122	0.49	7.29	25	
N-Nitroso-di-n-propylamine	0.49	0.17	0.72	0	67.2	50	130	0.52	6.15	25	
N-Nitrosodimethylamine	0.39	0.17	0.72	0	54.5	23	120	0.41	4.47	25	Y
N-Nitrosodiphenylamine	0.46	0.17	0.72	0	63.6	38	127	0.49	7.36	25	
Nitrobenzene	0.48	0.17	0.72	0	66.5	34	122	0.51	6.64	25	
Pentachlorophenol	0.71	0.17	0.72	0	98.4	25	133	0.77	7.97	25	Y
Phenol	0.51	0.17	0.72	0	70.4	34	121	0.54	5.35	25	
Surr: 2,4,6-Tribromophenol	760		902.7		84.6	39	132		0	25	
Surr: 2-Fluorobiphenyl	660		902.7		72.9	44	115		0	25	
Surr: 2-Fluorophenol	620		902.7		68.8	35	115		0	25	
Surr: Nitrobenzene-d5	650		902.7		72.3	37	122		0	25	
Surr: Phenol-d5	640		902.7		71.4	33	122		0	25	
Surr: Terphenyl-d14	710		902.7		78.3	54	127		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID:	MB-40193	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	PBS	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1702346

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	14		16.63		83.0	46	115				
Surr: Nitrobenzene-d5	12		16.63		71.5	44	125				
Surr: Terphenyl-d14	18		16.63		105	58	133				

Sample ID:	LCS-40193	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	LCSS	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1702347

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00067	0.013	0	99.7	43	111				
2-Methylnaphthalene	0.015	0.00067	0.013	0	110	39	114				
Acenaphthene	0.014	0.00067	0.013	0	106	44	111				
Acenaphthylene	0.014	0.00067	0.013	0	106	39	116				
Anthracene	0.014	0.00067	0.013	0	105	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID: **LCS-40193** Samp Type: **LCS** Test Code: **SW_8270S-SIM** Units: **mg/Kg** Prep Date: **6/17/2016** RunNo: **87637**

Client ID: **LCSS** Batch ID: **40193** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/3/2016** SeqNo: **1702347**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.018	0.00067	0.013	0	134	54	122				Q
Benzo(a)pyrene	0.013	0.00067	0.013	0	101	50	125				
Benzo(b)fluoranthene	0.016	0.00067	0.013	0	119	53	128				
Benzo(g,h,i)perylene	0.016	0.00067	0.013	0	123	49	127				
Benzo(k)fluoranthene	0.0098	0.00067	0.013	0	74.0	56	123				
Chrysene	0.013	0.00067	0.013	0	98.1	57	118				
Dibenzo(a,h)anthracene	0.017	0.00067	0.013	0	129	50	129				
Fluoranthene	0.013	0.00067	0.013	0	97.0	55	119				
Fluorene	0.015	0.00067	0.013	0	116	47	114				Q
Indeno(1,2,3-cd)pyrene	0.016	0.00067	0.013	0	122	49	130				
Naphthalene	0.014	0.00067	0.013	0	104	38	111				
Phenanthrene	0.017	0.00067	0.013	0	129	49	113				Q
Pyrene	0.016	0.00067	0.013	0	117	55	117				Q
Surr: 2-Fluorobiphenyl	14		16.59		85.6	46	115				
Surr: Nitrobenzene-d5	17		16.59		102	44	125				
Surr: Terphenyl-d14	19		16.59		112	58	133				

Sample ID: **1606425-005AMSD** Samp Type: **MSD** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/17/2016** RunNo: **87637**

Client ID: **BG03-SB02-05SD1** Batch ID: **40193** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/3/2016** SeqNo: **1702350**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00074	0.015	0.00083	85.0	43	111	0	0	25	
2-Methylnaphthalene	0.015	0.00074	0.015	0.0018	89.5	39	114	0	0	25	
Acenaphthene	0.014	0.00074	0.015	0	94.8	44	111	0	0	25	
Acenaphthylene	0.014	0.00074	0.015	0	96.4	39	116	0	0	25	
Anthracene	0.014	0.00074	0.015	0	92.8	50	114	0	0	25	
Benzo(a)anthracene	0.018	0.00074	0.015	0	121	54	122	0	0	25	
Benzo(a)pyrene	0.013	0.00074	0.015	0	85.4	50	125	0	0	25	
Benzo(b)fluoranthene	0.016	0.00074	0.015	0	106	53	128	0	0	25	
Benzo(g,h,i)perylene	0.014	0.00074	0.015	0	97.6	49	127	0	0	25	
Benzo(k)fluoranthene	0.014	0.00074	0.015	0	92.8	56	123	0	0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID: **1606425-005AMSD** Samp Type: **MSD** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/17/2016** RunNo: **87637**
Client ID: **BG03-SB02-05SD1** Batch ID: **40193** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/3/2016** SeqNo: **1702350**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.012	0.00074	0.015	0	84.7	57	118	0	0	25	
Dibenzo(a,h)anthracene	0.015	0.00074	0.015	0	106	50	129	0	0	25	
Fluoranthene	0.013	0.00074	0.015	0	86.4	55	119	0	0	25	
Fluorene	0.015	0.00074	0.015	0	105	47	114	0	0	25	
Indeno(1,2,3-cd)pyrene	0.015	0.00074	0.015	0	99.3	49	130	0	0	25	
Naphthalene	0.014	0.00074	0.015	0.0012	85.0	38	111	0	0	25	
Phenanthrene	0.017	0.00074	0.015	0	116	49	113	0	0	25	Q
Pyrene	0.015	0.00074	0.015	0	104	55	117	0	0	25	
Surr: 2-Fluorobiphenyl	13		18.31		73.7	46	115		0	25	
Surr: Nitrobenzene-d5	15		18.31		83.2	44	125		0	25	
Surr: Terphenyl-d14	18		18.31		96.9	58	133		0	25	

Sample ID: **1606425-005AMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/17/2016** RunNo: **87637**
Client ID: **BG03-SB02-05MS1** Batch ID: **40193** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/3/2016** SeqNo: **1708624**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00073	0.015	0.00083	82.4	43	111				
2-Methylnaphthalene	0.015	0.00073	0.015	0.0018	88.1	39	114				
Acenaphthene	0.013	0.00073	0.015	0	89.5	44	111				
Acenaphthylene	0.013	0.00073	0.015	0	89.6	39	116				
Anthracene	0.013	0.00073	0.015	0	88.6	50	114				
Benzo(a)anthracene	0.018	0.00073	0.015	0	120	54	122				
Benzo(a)pyrene	0.011	0.00073	0.015	0	76.4	50	125				
Benzo(b)fluoranthene	0.015	0.00073	0.015	0	103	53	128				
Benzo(g,h,i)perylene	0.016	0.00073	0.015	0	113	49	127				
Benzo(k)fluoranthene	0.012	0.00073	0.015	0	85.2	56	123				
Chrysene	0.012	0.00073	0.015	0	80.2	57	118				
Dibenzo(a,h)anthracene	0.015	0.00073	0.015	0	100	50	129				
Fluoranthene	0.012	0.00073	0.015	0	83.6	55	119				
Fluorene	0.015	0.00073	0.015	0	99.3	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00073	0.015	0	94.6	49	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID:	**1606425-005AMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/17/2016**	RunNo:	**87637**
Client ID:	**BG03-SB02-05MS1**	Batch ID:	**40193**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/3/2016**	SeqNo:	**1708624**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.013	0.00073	0.015	0.0012	82.7	38	111				
Phenanthrene	0.016	0.00073	0.015	0	112	49	113				
Pyrene	0.015	0.00073	0.015	0	99.7	55	117				
Surr: 2-Fluorobiphenyl	13		18.28		70.4	46	115				
Surr: Nitrobenzene-d5	14		18.28		77.0	44	125				
Surr: Terphenyl-d14	17		18.28		93.3	58	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40217**

Sample ID:	MB-40217	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87363
Client ID:	PBS	Batch ID:	40217	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695869

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40217	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87363
Client ID:	LCSS	Batch ID:	40217	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695870

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	27	5.0	25	0	107	74	119				
Antimony	25	1.0	25	0	99.5	79	114				
Arsenic	23	2.0	25	0	91.2	82	111				
Barium	24	10	25	0	97.0	83	113				
Beryllium	24	0.25	25	0	95.5	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40217

Sample ID:	LCS-40217	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87363
Client ID:	LCSS	Batch ID:	40217	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695870

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	90.7	82	113				
Calcium	210	50	250	0	85.6	81	116				
Chromium	26	0.50	25	0	102	85	113				
Cobalt	24	1.0	25	0	96.5	85	112				
Copper	26	5.0	25	0	104	81	117				
Iron	230	15	250	0	90.0	81	118				
Lead	25	5.0	25	0	99.8	81	112				
Magnesium	220	50	250	0	88.2	78	115				
Manganese	26	1.0	25	0	104	84	114				
Nickel	23	5.0	25	0	93.4	83	113				
Potassium	240	20	250	0	97.8	81	116				
Selenium	26	2.0	25	0	104	78	111				
Silver	23	1.0	25	0	92.0	82	112				
Sodium	240	50	250	0	94.7	83	118				
Vanadium	23	2.5	25	0	93.1	82	114				
Zinc	23	5.0	25	0	90.3	82	113				

Sample ID:	1606425-005BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87363
Client ID:	BG03-SB02-05MS1	Batch ID:	40217	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695872

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	16,000	3.6	18	13,000	12,500	74	119				Q
Antimony	20	0.73	18	4.8	82.5	79	114				
Arsenic	16	1.5	18	2.4	75.8	82	111				Q
Barium	75	7.3	18	52	125	83	113				Q
Beryllium	15	0.18	18	0.26	82.1	83	113				Q
Cadmium	15	0.18	18	0	80.4	82	113				Q
Calcium	620	36	180	450	92.4	81	116				
Chromium	37	0.36	18	20	94.0	85	113				
Cobalt	19	0.73	18	4.8	76.4	85	112				Q
Copper	59	3.6	18	38	114	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40217

Sample ID: **1606425-005BMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87363**

Client ID: **BG03-SB02-05MS1** Batch ID: **40217** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/13/2016** SeqNo: **1695872**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	13,000	11	180	12,000	642	81	118				JQ
Lead	18	3.6	18	3.1	82.4	81	112				
Magnesium	3,200	36	180	2,800	242	78	115				JQ
Manganese	250	0.73	18	240	53.1	84	114				JQ
Nickel	29	3.6	18	12	90.6	83	113				
Potassium	2,500	15	180	2,200	176	81	116				JQ
Selenium	11	1.5	18	0	60.8	78	111				Q
Silver	15	0.73	18	0	81.8	82	112				Q
Sodium	250	36	180	92	85.2	83	118				
Vanadium	40	1.8	18	24	86.2	82	114				J
Zinc	37	3.6	18	23	76.3	82	113				Q

Sample ID: **1606425-005BMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87363**

Client ID: **BG03-SB02-05SD1** Batch ID: **40217** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/13/2016** SeqNo: **1695873**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	15,000	3.6	18	13,000	9,700	74	119	16,000	3.29	20	Q
Antimony	22	0.73	18	4.8	96.3	79	114	20	11.9	20	
Arsenic	19	1.5	18	2.4	92.1	82	111	16	16.8	20	
Barium	70	7.3	18	52	101	83	113	75	5.92	20	
Beryllium	15	0.18	18	0.26	83.5	83	113	15	1.65	20	
Cadmium	17	0.18	18	0	91.2	82	113	15	12.5	20	
Calcium	640	36	180	450	108	81	116	620	4.36	20	
Chromium	41	0.36	18	20	119	85	113	37	11.5	20	Q
Cobalt	21	0.73	18	4.8	91.7	85	112	19	13.9	20	
Copper	62	3.6	18	38	129	81	117	59	4.50	20	Q
Iron	13,000	11	180	12,000	664	81	118	13,000	0.310	20	JQ
Lead	20	3.6	18	3.1	93.9	81	112	18	11.0	20	
Magnesium	3,100	36	180	2,800	180	78	115	3,200	3.54	20	JQ
Manganese	310	0.73	18	240	398	84	114	250	22.6	20	JRQ
Nickel	31	3.6	18	12	102	83	113	29	7.16	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40217

Sample ID:	1606425-005BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87363
Client ID:	BG03-SB02-05SD1	Batch ID:	40217	TestNo:	SW6010B	SW3050B		Analysis Date:	7/13/2016	SeqNo:	1695873

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	2,500	15	180	2,200	205	81	116	2,500	2.11	20	JQ
Selenium	13	1.5	18	0	69.7	78	111	11	13.6	20	Q
Silver	16	0.73	18	0	89.4	82	112	15	8.83	20	
Sodium	250	36	180	92	86.7	83	118	250	1.16	20	
Vanadium	46	1.8	18	24	117	82	114	40	13.1	20	JQ
Zinc	42	3.6	18	23	108	82	113	37	14.7	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40282**

Sample ID:	MB-40282	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	PBS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697068

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									UG
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40282	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	LCSS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697069

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	26	5.0	25	0	104	74	119				
Antimony	23	1.0	25	0	90.1	79	114				
Arsenic	23	2.0	25	0	91.3	82	111				
Barium	25	10	25	0	98.9	83	113				
Beryllium	24	0.25	25	0	95.9	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40282

Sample ID:	LCS-40282	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	LCSS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697069

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	22	0.25	25	0	89.8	82	113				
Calcium	230	50	250	0	90.7	81	116				
Chromium	23	0.50	25	0	92.6	85	113				
Cobalt	24	1.0	25	0	95.3	85	112				G
Copper	26	5.0	25	0	103	81	117				
Iron	230	15	250	0	93.4	81	118				
Lead	24	5.0	25	0	97.2	81	112				
Magnesium	230	50	250	0	93.4	78	115				
Manganese	26	1.0	25	0	104	84	114				
Nickel	23	5.0	25	0	90.5	83	113				
Potassium	240	20	250	0	94.4	81	116				
Selenium	25	2.0	25	0	100	78	111				
Silver	23	1.0	25	0	90.1	82	112				
Sodium	230	50	250	0	93.0	83	118				
Vanadium	23	2.5	25	0	93.0	82	114				
Zinc	23	5.0	25	0	91.5	82	113				

Sample ID:	1606506-006CMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	ZZZZZZ	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,200	3.5	18	7,700	2,770	74	119				Q
Antimony	17	0.71	18	2.4	83.7	79	114				
Arsenic	17	1.4	18	2.7	79.2	82	111				Q
Barium	39	7.1	18	16	128	83	113				Q
Beryllium	16	0.18	18	0	88.7	83	113				
Cadmium	16	0.18	18	0.032	87.6	82	113				
Calcium	1,100	35	180	660	240	81	116				Q
Chromium	27	0.35	18	12	86.0	85	113				
Cobalt	17	0.71	18	2.6	83.3	85	112				QG
Copper	44	3.5	18	25	106	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40282

Sample ID: **1606506-006CMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **87406**

Client ID: **ZZZZZZ** Batch ID: **40282** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/14/2016** SeqNo: **1697108**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,800	11	180	9,500	133	81	118				JQ
Lead	27	3.5	18	8.1	108	81	112				
Magnesium	1,300	35	180	960	178	78	115				Q
Manganese	180	0.71	18	140	202	84	114				Q
Nickel	22	3.5	18	5.3	91.9	83	113				
Potassium	720	14	180	420	169	81	116				Q
Selenium	12	1.4	18	0	69.3	78	111				Q
Silver	15	0.71	18	0	86.7	82	112				
Sodium	240	35	180	66	95.6	83	118				
Vanadium	33	1.8	18	19	82.2	82	114				
Zinc	32	3.5	18	14	97.6	82	113				

Sample ID: **1606506-006CMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **87406**

Client ID: **ZZZZZZ** Batch ID: **40282** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/14/2016** SeqNo: **1697109**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,200	3.5	18	7,700	-3,020	74	119	8,200	13.3	20	Q
Antimony	17	0.70	18	2.4	85.5	79	114	17	1.25	20	
Arsenic	17	1.4	18	2.7	81.7	82	111	17	2.06	20	Q
Barium	35	7.0	18	16	105	83	113	39	11.4	20	
Beryllium	16	0.18	18	0	92.1	83	113	16	3.05	20	
Cadmium	16	0.18	18	0.032	89.8	82	113	16	1.88	20	
Calcium	890	35	180	660	133	81	116	1,100	19.3	20	Q
Chromium	26	0.35	18	12	84.5	85	113	27	1.33	20	Q
Cobalt	18	0.70	18	2.6	87.0	85	112	17	3.23	20	G
Copper	41	3.5	18	25	91.2	81	117	44	6.29	20	
Iron	8,900	11	180	9,500	-384	81	118	9,800	9.77	20	JQ
Lead	26	3.5	18	8.1	101	81	112	27	5.11	20	
Magnesium	1,100	35	180	960	83.6	78	115	1,300	14.1	20	
Manganese	160	0.70	18	140	134	84	114	180	7.10	20	Q
Nickel	21	3.5	18	5.3	89.5	83	113	22	2.46	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40282

Sample ID:	1606506-006CMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	ZZZZZZ	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697109

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	620	14	180	420	118	81	116	720	13.8	20	Q
Selenium	15	1.4	18	0	83.4	78	111	12	17.8	20	
Silver	15	0.70	18	0	88.1	82	112	15	0.935	20	
Sodium	240	35	180	66	98.0	83	118	240	1.32	20	
Vanadium	33	1.8	18	19	80.2	82	114	33	1.31	20	Q
Zinc	30	3.5	18	14	87.3	82	113	32	6.21	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40434**

Sample ID:	MB-40434	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	PBS	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697390

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	LCS-40434	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	LCSS	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697391

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.7	0.20	10	0	97.1	83	118				

Sample ID:	1606652-005FMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697393

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.1	0.13	6.6	0.077	92.4	83	118				

Sample ID:	1606652-005FMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697394

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.4	0.13	6.5	0.077	97.5	83	118	6.1	4.65	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40444**

Sample ID:	**LCS-40444**	Samp Type:	**LCS**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/15/2016**	RunNo:	**87409**
Client ID:	**LCSS**	Batch ID:	**40444**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/15/2016**	SeqNo:	**1697482**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.9	0.20	10	0	98.9	83	118				

Sample ID:	**MB-40444**	Samp Type:	**MBLK**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/15/2016**	RunNo:	**87409**
Client ID:	**PBS**	Batch ID:	**40444**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/15/2016**	SeqNo:	**1697483**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	**1606425-005BMS**	Samp Type:	**MS**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/15/2016**	RunNo:	**87409**
Client ID:	**BG03-SB02-05MS1**	Batch ID:	**40444**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/15/2016**	SeqNo:	**1697484**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.2	0.14	7.1	0.22	84.4	83	118				

Sample ID:	**1606425-005BMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/15/2016**	RunNo:	**87409**
Client ID:	**BG03-SB02-05SD1**	Batch ID:	**40444**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/15/2016**	SeqNo:	**1697485**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.5	0.14	7.0	0.22	90.2	83	118	6.2	5.21	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86711**

Sample ID:	**1606425-005BDUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/15/2016**	RunNo:	**86711**	
Client ID:	**BG03-SB02-05LR1**	Batch ID:	**R86711**	TestNo:	**D2216**			Analysis Date:	**6/15/2016**	SeqNo:	**1682359**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	9.7	1.0						9.058	6.83	20		

Sample ID:	**1606430-005EDUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/15/2016**	RunNo:	**86711**	
Client ID:	**ZZZZZZ**	Batch ID:	**R86711**	TestNo:	**D2216**			Analysis Date:	**6/15/2016**	SeqNo:	**1682375**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	9.3	1.0						9.664	4.37	20		

RTI Laboratories - Definitions and Acronyms

WO#: 1606425

Date Reported: 8/29/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606425

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/2/16-01
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
F100C-SB01	00	04	N	1	F100C-SB01-04	6/10/16	1453	SO	1	022										1		
F100C-SB01	04	05	N	1	F100C-SB01-05		1500	SO	1											1		
F100C-SB01	05	06	N	1	F100C-SB01-06		1505	SO	1											1		
F100C-SB01	06	07	N	1	F100C-SB01-07		1510	SO	1											1		
F100C-SB01	00	04	FD	1	F100C-SB01-04DUP		1453	SO	1											1		
F100C-SB02	00	04	N	1	F100C-SB02-04		1525	SO	1											1		
F100C-SB02	00	04	FD	1	F100C-SB02-04DUP		1525	SO	1											1		time: 1525 *
F100C-SB02	04	05	N	1	F100C-SB02-05		1530	SO	1											1		
F100C-SB02	05	06	N	1	F100C-SB02-06		1535	SO	1											1		
F100C-SB02	06	07	N	1	F100C-SB02-07		1540	SO	1											1		
BG03-SB01	00	01	N	1	BG03-SS01-01		1250	SS	2						1				1			
BG03-SB01	04	05	N	1	BG03-SB01-05		1255	SO	2						1				1			
BG03-SB01	09	10	N	1	BG03-SB01-10		1300	SO	2						1				1			

1
2
3

	Date	Time		Date	Time
1. Relinquished By / Company: Amanda AECOM	6/13/16	1300	1. Received By / Company: Transfer to FedEx	6/13/16	1300
2. Relinquished By / Company			2. Received By / Company		
3. Relinquished By / Company			3. Received By / Company: RTL	6/14/16	0914

Comments: AOCs F100C and BG03

Shipment Method/Airbill No.: 5105 0202 5997

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

* Lid Rec'd cracked - replaced @ Login

Number 2

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060121(6-01
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
BG03-SB02	00	01	N	1	BG03-SB02-01	06/10/16	1145	SS	2	022					1				1			
BG03-SB02	04	05	N	1	BG03-SB02-05		1150	SO	2						1				1			
BG03-SB02	04	05	MS	1	BG03-SB02-05MS		1150	SO	2						1				1			
BG03-SB02	04	05	SD	1	BG03-SB02-05MSD		1150	SO	2						1				1			

4
5

1. Relinquished By / Company: Amanda Martin AECOM	Date: 06/13/16	Time: 1300	1. Received By / Company: Transfer to FedEx	Date: 06/13/16	Time: 1300
2. Relinquished By / Company	Date	Time	2. Received By / Company: A Flores	Date: 06/14/16	Time: 941
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: AOCs - FT006, BG03

Shipment Method/Airbill No.: 810302025957

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

Paradox2

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060216-02 Batch May16

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
BG03-SB02	09	10	N	1	BG03-SB02-10	06/10/16	1155	SO	2	023					1				1			6
BG03-SB03	00	01	N	1	BG03-SB03-01		1200	SO	2						1				1			7
BG03-SB03	04	05	N	1	BG03-SB03-05		1205	SO	2						1				1			8
BG03-SB03	09	10	N	1	BG03-SB03-10		1210	SO	2						1				1			9
BG03-SB04	00	01	N	1	BG03-SB04-01		1225	SS	2						1				1			10
	04	05	N	1	BG03-SB04-04		1235	SO	2						1				1		11	SBD 03/SED 04
	04	05	N	1	BG03-SB04-05		1230	SO	2						1				1			12
	04	05	N	1	BG03-SB04-05DUP		1230	SO	2						1				1			13
BG03-SS05	00	01	N	1	BG03-SS05-01		1135	SS	2						1				1			14
BG03-SS06	00	01	N	1	BG03-SS06-01		1240	SS	2						1				1			15
BG03-SS07	00	01	N	1	BG03-SS07-01		1305	SS	2						1				1			16

1. Relinquished By / Company	Amanda Martin AECOM	06/13/16	1300	1. Received By / Company	FedEx
2. Relinquished By / Company		Date	Time	2. Received By / Company	A. Flores QA
3. Relinquished By / Company		Date	Time	3. Received By / Company	

Date	Time
06/13/16	1300
06/14/16	0941
Date	Time

Comments: AOC – BG03

Shipment Method/Airbill No.: 8105 0202 5887

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

B16 B1w2

CUSTODY SEAL
DATE 6/13/16
SIGNATURE

QEC Quality Environmental Containers
800-255-3950 • 304-255-3900

Cooler ID: RTI-32 #032 Sample Temp Range 2.5 - 3.5°C
Fed Ex #: 810302025595

CoC ID 061216-11

#022
Cooler ID: Paradox 2
tracking # 810302025957
CoC ID 061216-01
Cooler Temp Blank 2.2°C

CUSTODY SEAL
DATE 6/13/16
SIGNATURE

QEC Quality Environmental Containers
800-255-3950 • 304-255-3900

#023 CoC ID ~~061216-02~~ 061216-02
Cooler ID Big Blue 2
tracking # 810302025887
Cooler temp Blank 1.2°C

CUSTODY SEAL
DATE 6/13/16
SIGNATURE

QEC Quality Environmental Containers
800-255-3950 • 304-255-3900

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Monday, August 29, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606430

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606430-001A	AST35-SB01-05		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-001B	AST35-SB01-05		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-001C	AST35-SB01-05		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-001D	AST35-SB01-05		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-001E	AST35-SB01-05		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-002A	AST35-SB01-05 DUP		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-002B	AST35-SB01-05 DUP		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-002C	AST35-SB01-05 DUP		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-002D	AST35-SB01-05 DUP		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-002E	AST35-SB01-05 DUP		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-003A	AST35-SB01-06		6/12/2016 9:50 AM	6/14/2016 9:41 AM	Soil
1606430-003B	AST35-SB01-06		6/12/2016 9:50 AM	6/14/2016 9:41 AM	Soil
1606430-003C	AST35-SB01-06		6/12/2016 9:50 AM	6/14/2016 9:41 AM	Soil
1606430-003D	AST35-SB01-06		6/12/2016 9:50 AM	6/14/2016 9:41 AM	Soil
1606430-003E	AST35-SB01-06		6/12/2016 9:50 AM	6/14/2016 9:41 AM	Soil
1606430-004A	TB-SO-061216-01		6/12/2016 8:00 AM	6/14/2016 9:41 AM	Soil
1606430-004B	TB-SO-061216-01		6/12/2016 8:00 AM	6/14/2016 9:41 AM	Soil
1606430-004C	TB-SO-061216-01		6/12/2016 8:00 AM	6/14/2016 9:41 AM	Soil
1606430-005A	AST35-SB02-02		6/12/2016 10:10 AM	6/14/2016 9:41 AM	Soil
1606430-005B	AST35-SB02-02		6/12/2016 10:10 AM	6/14/2016 9:41 AM	Soil
1606430-005C	AST35-SB02-02		6/12/2016 10:10 AM	6/14/2016 9:41 AM	Soil
1606430-005D	AST35-SB02-02		6/12/2016 10:10 AM	6/14/2016 9:41 AM	Soil
1606430-005E	AST35-SB02-02		6/12/2016 10:10 AM	6/14/2016 9:41 AM	Soil
1606430-006A	AST35-SB02-03		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-006B	AST35-SB02-03		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-006C	AST35-SB02-03		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-006D	AST35-SB02-03		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-006E	AST35-SB02-03		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-007A	AST35-SS03-01		6/12/2016 9:10 AM	6/14/2016 9:41 AM	Soil
1606430-007B	AST35-SS03-01		6/12/2016 9:10 AM	6/14/2016 9:41 AM	Soil
1606430-007C	AST35-SS03-01		6/12/2016 9:10 AM	6/14/2016 9:41 AM	Soil
1606430-007D	AST35-SS03-01		6/12/2016 9:10 AM	6/14/2016 9:41 AM	Soil
1606430-007E	AST35-SS03-01		6/12/2016 9:10 AM	6/14/2016 9:41 AM	Soil
1606430-008A	AST35-SB03-02		6/12/2016 9:15 AM	6/14/2016 9:41 AM	Soil
1606430-008B	AST35-SB03-02		6/12/2016 9:15 AM	6/14/2016 9:41 AM	Soil
1606430-008C	AST35-SB03-02		6/12/2016 9:15 AM	6/14/2016 9:41 AM	Soil
1606430-008D	AST35-SB03-02		6/12/2016 9:15 AM	6/14/2016 9:41 AM	Soil
1606430-008E	AST35-SB03-02		6/12/2016 9:15 AM	6/14/2016 9:41 AM	Soil
1606430-009A	AST35-SB04-03		6/12/2016 8:40 AM	6/14/2016 9:41 AM	Soil
1606430-009B	AST35-SB04-03		6/12/2016 8:40 AM	6/14/2016 9:41 AM	Soil
1606430-009C	AST35-SB04-03		6/12/2016 8:40 AM	6/14/2016 9:41 AM	Soil
1606430-009D	AST35-SB04-03		6/12/2016 8:40 AM	6/14/2016 9:41 AM	Soil
1606430-009E	AST35-SB04-03		6/12/2016 8:40 AM	6/14/2016 9:41 AM	Soil
1606430-010A	AST35-SB04-04		6/12/2016 8:55 AM	6/14/2016 9:41 AM	Soil
1606430-010B	AST35-SB04-04		6/12/2016 8:55 AM	6/14/2016 9:41 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606430-010C	AST35-SB04-04		6/12/2016 8:55 AM	6/14/2016 9:41 AM	Soil
1606430-010D	AST35-SB04-04		6/12/2016 8:55 AM	6/14/2016 9:41 AM	Soil
1606430-010E	AST35-SB04-04		6/12/2016 8:55 AM	6/14/2016 9:41 AM	Soil
1606430-011A	FPH-SS01-01		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-011B	FPH-SS01-01		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-011C	FPH-SS01-01		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-011D	FPH-SS01-01		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-011E	FPH-SS01-01		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-012A	FPH-SS01-01 DUP		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-012B	FPH-SS01-01 DUP		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-012C	FPH-SS01-01 DUP		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-012D	FPH-SS01-01 DUP		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-012E	FPH-SS01-01 DUP		6/12/2016 10:15 AM	6/14/2016 9:41 AM	Soil
1606430-013A	FPH-SS02-01		6/12/2016 9:40 AM	6/14/2016 9:41 AM	Soil
1606430-013B	FPH-SS02-01		6/12/2016 9:40 AM	6/14/2016 9:41 AM	Soil
1606430-013C	FPH-SS02-01		6/12/2016 9:40 AM	6/14/2016 9:41 AM	Soil
1606430-013D	FPH-SS02-01		6/12/2016 9:40 AM	6/14/2016 9:41 AM	Soil
1606430-013E	FPH-SS02-01		6/12/2016 9:40 AM	6/14/2016 9:41 AM	Soil
1606430-014A	FPH-SB02-02		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-014B	FPH-SB02-02		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-014C	FPH-SB02-02		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-014D	FPH-SB02-02		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-014E	FPH-SB02-02		6/12/2016 9:45 AM	6/14/2016 9:41 AM	Soil
1606430-015A	FPH-SS03-01		6/12/2016 9:30 AM	6/14/2016 9:41 AM	Soil
1606430-015B	FPH-SS03-01		6/12/2016 9:30 AM	6/14/2016 9:41 AM	Soil
1606430-015C	FPH-SS03-01		6/12/2016 9:30 AM	6/14/2016 9:41 AM	Soil
1606430-015D	FPH-SS03-01		6/12/2016 9:30 AM	6/14/2016 9:41 AM	Soil
1606430-015E	FPH-SS03-01		6/12/2016 9:30 AM	6/14/2016 9:41 AM	Soil
1606430-016A	FPH-SB03-02		6/12/2016 9:35 AM	6/14/2016 9:41 AM	Soil
1606430-016B	FPH-SB03-02		6/12/2016 9:35 AM	6/14/2016 9:41 AM	Soil
1606430-016C	FPH-SB03-02		6/12/2016 9:35 AM	6/14/2016 9:41 AM	Soil
1606430-016D	FPH-SB03-02		6/12/2016 9:35 AM	6/14/2016 9:41 AM	Soil
1606430-016E	FPH-SB03-02		6/12/2016 9:35 AM	6/14/2016 9:41 AM	Soil
1606430-017A	FPH-SB04-04		6/12/2016 9:00 AM	6/14/2016 9:41 AM	Soil
1606430-017B	FPH-SB04-04		6/12/2016 9:00 AM	6/14/2016 9:41 AM	Soil
1606430-017C	FPH-SB04-04		6/12/2016 9:00 AM	6/14/2016 9:41 AM	Soil
1606430-017D	FPH-SB04-04		6/12/2016 9:00 AM	6/14/2016 9:41 AM	Soil
1606430-017E	FPH-SB04-04		6/12/2016 9:00 AM	6/14/2016 9:41 AM	Soil
1606430-018A	FPH-SB04-05		6/12/2016 8:50 AM	6/14/2016 9:41 AM	Soil
1606430-018B	FPH-SB04-05		6/12/2016 8:50 AM	6/14/2016 9:41 AM	Soil
1606430-018C	FPH-SB04-05		6/12/2016 8:50 AM	6/14/2016 9:41 AM	Soil
1606430-018D	FPH-SB04-05		6/12/2016 8:50 AM	6/14/2016 9:41 AM	Soil
1606430-018E	FPH-SB04-05		6/12/2016 8:50 AM	6/14/2016 9:41 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical report revision: 9/16/16: Update LOQ for Benzene for samples 1606430-001A,-002A, -003A, -004A,-005A, -006A, -007A, -008A, -010A, -011A, -012A, -014A, -016A, and -018A.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Percent Moisture - ASTM-D2216
Volatile Organic Compounds - 8260C-STAR
Volatile Organic Compounds - 8260C-STAR
Semi-Volatile Organic Compounds - 8270D-SIM-STAR

Analytical Comments for Test SW_8260S, Analytical Run No 86770, Batch ID R86770:
Sample VOA11B ICV 061616: ICV results for naphthalene exceed the 20% control criteria.
Sample VOA11B LCS2 061716: Recovery for 1,2,4-Trimethylbenzene was outside the control limits.
Sample 1606430-009C MS: Spike recoveries for 1,2,4-Trimethylbenzene, Naphthalene and p-Isopropyl toluene were outside the control limits.
Sample 1606437-004B MS: Spike recoveries for 1,2,4-Trimethylbenzene, p-Isopropyl toluene and vinyl acetate were outside the control limits.
Sample 1606437-004B MS: Spike recoveries for 1,2,4-Trimethylbenzene, Naphthalene, p-Isopropyl toluene and vinyl acetate were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87308, Batch ID 40198:
Sample 1606430-009DMS: Spike recoveries for Fluoranthene and Pyrene exceeded control limits.
Sample 1606430-016D: Surrogate recovery for 2-Fluorobiphenyl was outside control criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No87637, Batch ID 40193:
Sample LCS-40193: Recoveries for Benz(a)anthracene, Fluorene, Phenanthrene and Pyrene were outside the control limits.
Sample 1606425-005A MS: Spike recovery for Naphthalene was outside the control limits. Surrogate Nitrobenzene-d5 was outside the control limits.
Sample 1606425-005A MSD: Spike recovery for Phenanthrene was outside the control limits

Analytical Comments for Test SW_8270S-SIM, Analytical Run No87679, Batch ID 40198:
Sample 1606430-018D: Sample was analyzed twice, once with no dilution, the other at 10x for Phenanthrene. Analyte was detected in both analyses over the high end of calibration range (1,000 µg/L) of liquid extract. Original data with no dilution, estimated detection of Phenanthrene at 9,750 µg/L liquid extract. 10x dilution was choosen based on the original result. Final detected concentration is 1,009 µg/L of liquid extract, prior to moisture correction for sediment analysis.

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:45:00 AM
Project:	Camp Hero		
Lab ID:	1606430-001	**Matrix:**	Soil
Client Sample ID:	AST35-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: STM**
Acenaphthene	0.0017		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Acenaphthylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Anthracene	0.0027		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Benz(a)anthracene	0.010		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Benzo(a)pyrene	0.0080		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Benzo(b)fluoranthene	0.011		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Benzo(g,h,i)perylene	0.0011		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Benzo(k)fluoranthene	0.0051		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Chrysene	0.0096		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Dibenzo(a,h)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Fluoranthene	0.021		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Fluorene	0.0018		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Indeno(1,2,3-cd)pyrene	0.0057		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Phenanthrene	0.014		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Pyrene	0.018		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/27/2016 2:04 PM
Surr: 2-Fluorobiphenyl	82.9			46-115		%Rec	1	7/27/2016 2:04 PM
Surr: Nitrobenzene-d5	83.1			44-125		%Rec	1	7/27/2016 2:04 PM
Surr: Terphenyl-d14	92.7			58-133		%Rec	1	7/27/2016 2:04 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00056	U	0.00024	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
1,3,5-Trimethylbenzene	0.00056	U	0.00018	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
Benzene	0.00056	U	0.00025	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
Ethylbenzene	0.00056	U	0.00021	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
Isopropylbenzene	0.00056	U	0.00017	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
Methyl tert-butyl ether [MTBE]	0.00056	U	0.00016	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
n-Butylbenzene	0.00056	U	0.00025	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
n-Propylbenzene	0.00056	U	0.00016	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
Naphthalene	0.00056	U	0.00047	0.00056	0.0046	mg/Kg-dry	0.82	6/15/2016 3:37 PM
p-Isopropyltoluene [p-Cymene]	0.00056	U	0.00024	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
sec-Butylbenzene	0.00093	U	0.00063	0.00093	0.0019	mg/Kg-dry	0.82	6/15/2016 3:37 PM
tert-Butylbenzene	0.00056	U	0.00051	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
Toluene	0.00056	U	0.00025	0.00056	0.00093	mg/Kg-dry	0.82	6/15/2016 3:37 PM
Xylene (Total)	0.0017	U	0.00042	0.0017	0.0028	mg/Kg-dry	0.82	6/15/2016 3:37 PM
Surr: 4-Bromofluorobenzene	84.1			79-119		%Rec	0.82	6/15/2016 3:37 PM
Surr: Dibromofluoromethane	100			78-119		%Rec	0.82	6/15/2016 3:37 PM
Surr: Toluene-d8	88.8			85-116		%Rec	0.82	6/15/2016 3:37 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:45:00 AM
Project:	Camp Hero		
Lab ID:	1606430-002	**Matrix:**	Soil
Client Sample ID:	AST35-SB01-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: STM**
Acenaphthene	0.00082		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Anthracene	0.00078		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Benz(a)anthracene	0.0038		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Benzo(a)pyrene	0.0033		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Benzo(b)fluoranthene	0.0058		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Benzo(g,h,i)perylene	0.0027		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Benzo(k)fluoranthene	0.0017		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Chrysene	0.0044		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Fluoranthene	0.0091		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Fluorene	0.00089		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Indeno(1,2,3-cd)pyrene	0.0027		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Phenanthrene	0.0058		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Pyrene	0.0074		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/27/2016 2:32 PM
Surr: 2-Fluorobiphenyl	89.1			46-115		%Rec	1	7/27/2016 2:32 PM
Surr: Nitrobenzene-d5	90.6			44-125		%Rec	1	7/27/2016 2:32 PM
Surr: Terphenyl-d14	98.3			58-133		%Rec	1	7/27/2016 2:32 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00048	U	0.00021	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
1,3,5-Trimethylbenzene	0.00048	U	0.00016	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
Benzene	0.00048	U	0.00022	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
Ethylbenzene	0.00048	U	0.00018	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
Isopropylbenzene	0.00048	U	0.00015	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
Methyl tert-butyl ether [MTBE]	0.00048	U	0.00014	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
n-Butylbenzene	0.00048	U	0.00022	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
n-Propylbenzene	0.00048	U	0.00014	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
Naphthalene	0.00048	U	0.00041	0.00048	0.0040	mg/Kg-dry	0.73	6/15/2016 4:03 PM
p-Isopropyltoluene [p-Cymene]	0.00034	J	0.00021	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
sec-Butylbenzene	0.00081	U	0.00055	0.00081	0.0016	mg/Kg-dry	0.73	6/15/2016 4:03 PM
tert-Butylbenzene	0.00048	U	0.00044	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
Toluene	0.00048	U	0.00022	0.00048	0.00081	mg/Kg-dry	0.73	6/15/2016 4:03 PM
Xylene (Total)	0.0015	U	0.00037	0.0015	0.0024	mg/Kg-dry	0.73	6/15/2016 4:03 PM
Surr: 4-Bromofluorobenzene	84.8			79-119		%Rec	0.73	6/15/2016 4:03 PM
Surr: Dibromofluoromethane	102			78-119		%Rec	0.73	6/15/2016 4:03 PM
Surr: Toluene-d8	88.6			85-116		%Rec	0.73	6/15/2016 4:03 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.7		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:50:00 AM
Project:	Camp Hero		
Lab ID:	1606430-003	**Matrix:**	Soil
Client Sample ID:	AST35-SB01-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: KAL**
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Anthracene	0.00083		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Benz(a)anthracene	0.0042		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Benzo(a)pyrene	0.0021		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Benzo(b)fluoranthene	0.0057		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Benzo(g,h,i)perylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Benzo(k)fluoranthene	0.0012		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Chrysene	0.0031		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Fluoranthene	0.0070		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Fluorene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Indeno(1,2,3-cd)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Phenanthrene	0.0062		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Pyrene	0.0068		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:31 PM
Surr: 2-Fluorobiphenyl	70.9			46-115		%Rec	1	7/11/2016 7:31 PM
Surr: Nitrobenzene-d5	81.6			44-125		%Rec	1	7/11/2016 7:31 PM
Surr: Terphenyl-d14	87.7			58-133		%Rec	1	7/11/2016 7:31 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00053	U	0.00023	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
1,3,5-Trimethylbenzene	0.00053	U	0.00018	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
Benzene	0.00053	U	0.00024	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
Ethylbenzene	0.00053	U	0.00020	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
Isopropylbenzene	0.00053	U	0.00017	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
Methyl tert-butyl ether [MTBE]	0.00053	U	0.00016	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
n-Butylbenzene	0.00053	U	0.00024	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
n-Propylbenzene	0.00053	U	0.00016	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
Naphthalene	0.00053	U	0.00045	0.00053	0.0045	mg/Kg-dry	0.8	6/15/2016 4:30 PM
p-Isopropyltoluene [p-Cymene]	0.00053	U	0.00023	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
sec-Butylbenzene	0.00089	U	0.00060	0.00089	0.0018	mg/Kg-dry	0.8	6/15/2016 4:30 PM
tert-Butylbenzene	0.00053	U	0.00049	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
Toluene	0.00053	U	0.00024	0.00053	0.00089	mg/Kg-dry	0.8	6/15/2016 4:30 PM
Xylene (Total)	0.0016	U	0.00041	0.0016	0.0027	mg/Kg-dry	0.8	6/15/2016 4:30 PM
Surr: 4-Bromofluorobenzene	83.8			79-119		%Rec	0.8	6/15/2016 4:30 PM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.8	6/15/2016 4:30 PM
Surr: Toluene-d8	88.5			85-116		%Rec	0.8	6/15/2016 4:30 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606430-004	**Matrix:**	Soil
Client Sample ID:	TB-SO-061216-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00060	U	0.00026	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
1,3,5-Trimethylbenzene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
Isopropylbenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
Methyl tert-butyl ether [MTBE]	0.00060	U	0.00018	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
n-Butylbenzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
n-Propylbenzene	0.00060	U	0.00018	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
Naphthalene	0.00060	U	0.00051	0.00060	0.0050	mg/Kg	1	6/16/2016 9:53 AM
p-Isopropyltoluene [p-Cymene]	0.00060	U	0.00026	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
sec-Butylbenzene	0.0010	U	0.00068	0.0010	0.0020	mg/Kg	1	6/16/2016 9:53 AM
tert-Butylbenzene	0.00060	U	0.00055	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
Toluene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/16/2016 9:53 AM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg	1	6/16/2016 9:53 AM
Surr: 4-Bromofluorobenzene	88.4			79-119		%Rec	1	6/16/2016 9:53 AM
Surr: Dibromofluoromethane	94.5			78-119		%Rec	1	6/16/2016 9:53 AM
Surr: Toluene-d8	88.4			85-116		%Rec	1	6/16/2016 9:53 AM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 10:10:00 AM
Project:	Camp Hero		
Lab ID:	1606430-005	**Matrix:**	Soil
Client Sample ID:	AST35-SB02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: KAL**
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Benz(a)anthracene	0.0024		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Benzo(a)pyrene	0.0017		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Benzo(b)fluoranthene	0.0031		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Benzo(g,h,i)perylene	0.0013		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Benzo(k)fluoranthene	0.0010		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Chrysene	0.0016		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Fluoranthene	0.0032		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Fluorene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Indeno(1,2,3-cd)pyrene	0.0011		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Phenanthrene	0.0024		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Pyrene	0.0032		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 7:58 PM
Surr: 2-Fluorobiphenyl	63.3			46-115		%Rec	1	7/11/2016 7:58 PM
Surr: Nitrobenzene-d5	72.0			44-125		%Rec	1	7/11/2016 7:58 PM
Surr: Terphenyl-d14	83.3			58-133		%Rec	1	7/11/2016 7:58 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00051	U	0.00022	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
1,3,5-Trimethylbenzene	0.00051	U	0.00017	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
Benzene	0.00051	U	0.00023	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
Ethylbenzene	0.00051	U	0.00019	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
Isopropylbenzene	0.00051	U	0.00016	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
Methyl tert-butyl ether [MTBE]	0.00051	U	0.00015	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
n-Butylbenzene	0.00051	U	0.00023	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
n-Propylbenzene	0.00051	U	0.00015	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
Naphthalene	0.00051	U	0.00044	0.00051	0.0043	mg/Kg-dry	0.77	6/15/2016 5:23 PM
p-Isopropyltoluene [p-Cymene]	0.00051	U	0.00022	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
sec-Butylbenzene	0.00085	U	0.00058	0.00085	0.0017	mg/Kg-dry	0.77	6/15/2016 5:23 PM
tert-Butylbenzene	0.00051	U	0.00047	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
Toluene	0.00051	U	0.00023	0.00051	0.00085	mg/Kg-dry	0.77	6/15/2016 5:23 PM
Xylene (Total)	0.0015	U	0.00039	0.0015	0.0026	mg/Kg-dry	0.77	6/15/2016 5:23 PM
Surr: 4-Bromofluorobenzene	83.2			79-119		%Rec	0.77	6/15/2016 5:23 PM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.77	6/15/2016 5:23 PM
Surr: Toluene-d8	89.3			85-116		%Rec	0.77	6/15/2016 5:23 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.7		1.0	1.0	1.0	wt%	1	6/15/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 10:15:00 AM
Project: Camp Hero
Lab ID: 1606430-006 **Matrix:** Soil
Client Sample ID: AST35-SB02-03

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: KAL**
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Benz(a)anthracene	0.0015		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Benzo(a)pyrene	0.00096		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Benzo(b)fluoranthene	0.0016		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Benzo(g,h,i)perylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Benzo(k)fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Chrysene	0.00094		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Fluoranthene	0.0022		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Fluorene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Indeno(1,2,3-cd)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Phenanthrene	0.0017		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Pyrene	0.0022		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 8:26 PM
Surr: 2-Fluorobiphenyl	68.7			46-115		%Rec	1	7/11/2016 8:26 PM
Surr: Nitrobenzene-d5	79.9			44-125		%Rec	1	7/11/2016 8:26 PM
Surr: Terphenyl-d14	82.9			58-133		%Rec	1	7/11/2016 8:26 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00053	U	0.00023	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
1,3,5-Trimethylbenzene	0.00053	U	0.00018	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
Benzene	0.00053	U	0.00024	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
Ethylbenzene	0.00053	U	0.00020	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
Isopropylbenzene	0.00053	U	0.00017	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
Methyl tert-butyl ether [MTBE]	0.00053	U	0.00016	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
n-Butylbenzene	0.00053	U	0.00024	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
n-Propylbenzene	0.00053	U	0.00015	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
Naphthalene	0.00053	U	0.00045	0.00053	0.0044	mg/Kg-dry	0.79	6/15/2016 5:49 PM
p-Isopropyltoluene [p-Cymene]	0.00053	U	0.00023	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
sec-Butylbenzene	0.00088	U	0.00060	0.00088	0.0018	mg/Kg-dry	0.79	6/15/2016 5:49 PM
tert-Butylbenzene	0.00053	U	0.00048	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
Toluene	0.00053	U	0.00024	0.00053	0.00088	mg/Kg-dry	0.79	6/15/2016 5:49 PM
Xylene (Total)	0.0016	U	0.00040	0.0016	0.0026	mg/Kg-dry	0.79	6/15/2016 5:49 PM
Surr: 4-Bromofluorobenzene	85.7			79-119		%Rec	0.79	6/15/2016 5:49 PM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.79	6/15/2016 5:49 PM
Surr: Toluene-d8	89.8			85-116		%Rec	0.79	6/15/2016 5:49 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:10:00 AM
Project:	Camp Hero		
Lab ID:	1606430-007	**Matrix:**	Soil
Client Sample ID:	AST35-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: KAL**
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Anthracene	0.00095		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Benz(a)anthracene	0.0061		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Benzo(a)pyrene	0.0046		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Benzo(b)fluoranthene	0.0080		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Benzo(g,h,i)perylene	0.0036		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Benzo(k)fluoranthene	0.0017		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Chrysene	0.0041		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Dibenzo(a,h)anthracene	0.00083		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Fluoranthene	0.0087		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Indeno(1,2,3-cd)pyrene	0.0030		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Phenanthrene	0.0068		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Pyrene	0.0088		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 8:53 PM
Surr: 2-Fluorobiphenyl	62.8			46-115		%Rec	1	7/11/2016 8:53 PM
Surr: Nitrobenzene-d5	73.4			44-125		%Rec	1	7/11/2016 8:53 PM
Surr: Terphenyl-d14	79.5			58-133		%Rec	1	7/11/2016 8:53 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00049	U	0.00021	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
1,3,5-Trimethylbenzene	0.00049	U	0.00016	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
Benzene	0.00049	U	0.00022	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
Ethylbenzene	0.00049	U	0.00018	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
Isopropylbenzene	0.00049	U	0.00016	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
Methyl tert-butyl ether [MTBE]	0.00049	U	0.00015	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
n-Butylbenzene	0.00049	U	0.00022	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
n-Propylbenzene	0.00049	U	0.00014	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
Naphthalene	0.00049	U	0.00042	0.00049	0.0041	mg/Kg-dry	0.72	6/15/2016 9:47 PM
p-Isopropyltoluene [p-Cymene]	0.00049	U	0.00022	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
sec-Butylbenzene	0.00082	U	0.00056	0.00082	0.0016	mg/Kg-dry	0.72	6/15/2016 9:47 PM
tert-Butylbenzene	0.00049	U	0.00045	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
Toluene	0.00049	U	0.00022	0.00049	0.00082	mg/Kg-dry	0.72	6/15/2016 9:47 PM
Xylene (Total)	0.0015	U	0.00037	0.0015	0.0025	mg/Kg-dry	0.72	6/15/2016 9:47 PM
Surr: 4-Bromofluorobenzene	84.8			79-119		%Rec	0.72	6/15/2016 9:47 PM
Surr: Dibromofluoromethane	100			78-119		%Rec	0.72	6/15/2016 9:47 PM
Surr: Toluene-d8	88.9			85-116		%Rec	0.72	6/15/2016 9:47 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606430-008	**Matrix:**	Soil
Client Sample ID:	AST35-SB03-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: KAL**
Acenaphthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Acenaphthylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Benz(a)anthracene	0.0054		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Benzo(a)pyrene	0.0038		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Benzo(b)fluoranthene	0.0066		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Benzo(g,h,i)perylene	0.0030		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Benzo(k)fluoranthene	0.0016		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Chrysene	0.0033		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Dibenzo(a,h)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Fluoranthene	0.0077		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Fluorene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Indeno(1,2,3-cd)pyrene	0.0025		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Phenanthrene	0.0055		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Pyrene	0.0078		0.00078	0.00078	0.00078	mg/Kg-dry	1	7/11/2016 9:21 PM
Surr: 2-Fluorobiphenyl	70.0			46-115		%Rec	1	7/11/2016 9:21 PM
Surr: Nitrobenzene-d5	80.0			44-125		%Rec	1	7/11/2016 9:21 PM
Surr: Terphenyl-d14	86.7			58-133		%Rec	1	7/11/2016 9:21 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00063	U	0.00027	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
1,3,5-Trimethylbenzene	0.00063	U	0.00021	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
Benzene	0.00063	U	0.00028	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
Ethylbenzene	0.00063	U	0.00023	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
Isopropylbenzene	0.00063	U	0.00020	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
Methyl tert-butyl ether [MTBE]	0.00063	U	0.00019	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
n-Butylbenzene	0.00063	U	0.00028	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
n-Propylbenzene	0.00063	U	0.00018	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
Naphthalene	0.00063	U	0.00053	0.00063	0.0052	mg/Kg-dry	0.9	6/15/2016 10:13 PM
p-Isopropyltoluene [p-Cymene]	0.00063	U	0.00027	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
sec-Butylbenzene	0.0010	U	0.00071	0.0010	0.0021	mg/Kg-dry	0.9	6/15/2016 10:13 PM
tert-Butylbenzene	0.00063	U	0.00057	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
Toluene	0.00063	U	0.00028	0.00063	0.0010	mg/Kg-dry	0.9	6/15/2016 10:13 PM
Xylene (Total)	0.0019	U	0.00048	0.0019	0.0031	mg/Kg-dry	0.9	6/15/2016 10:13 PM
Surr: 4-Bromofluorobenzene	87.3			79-119		%Rec	0.9	6/15/2016 10:13 PM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.9	6/15/2016 10:13 PM
Surr: Toluene-d8	90.2			85-116		%Rec	0.9	6/15/2016 10:13 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 8:40:00 AM
Project:	Camp Hero		
Lab ID:	1606430-009	**Matrix:**	Soil
Client Sample ID:	AST35-SB04-03		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: KAL**
Acenaphthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Acenaphthylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Anthracene	0.0010		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Benz(a)anthracene	0.0071		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Benzo(a)pyrene	0.0054		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Benzo(b)fluoranthene	0.0083		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Benzo(g,h,i)perylene	0.0041		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Benzo(k)fluoranthene	0.0031		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Chrysene	0.0050		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Fluoranthene	0.011	X	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Fluorene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Indeno(1,2,3-cd)pyrene	0.0035		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Phenanthrene	0.0079		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Pyrene	0.011	X	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/11/2016 6:08 PM
Surr: 2-Fluorobiphenyl	67.5			46-115		%Rec	1	7/11/2016 6:08 PM
Surr: Nitrobenzene-d5	77.4			44-125		%Rec	1	7/11/2016 6:08 PM
Surr: Terphenyl-d14	84.6			58-133		%Rec	1	7/11/2016 6:08 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.059	QX U	0.025	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
1,3,5-Trimethylbenzene	0.059	U	0.056	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
Benzene	0.059	U	0.020	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
Ethylbenzene	0.059	U	0.022	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
Isopropylbenzene	0.059	U	0.024	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
Methyl tert-butyl ether [MTBE]	0.059	U	0.039	0.059	0.20	mg/Kg-dry	86.6	6/17/2016 10:51 PM
n-Butylbenzene	0.059	U	0.026	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
n-Propylbenzene	0.059	U	0.023	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
Naphthalene	0.059	XZ U	0.050	0.059	0.49	mg/Kg-dry	86.6	6/17/2016 10:51 PM
p-Isopropyltoluene [p-Cymene]	0.059	XU	0.024	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
sec-Butylbenzene	0.059	U	0.030	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
tert-Butylbenzene	0.059	U	0.027	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
Toluene	0.059	U	0.026	0.059	0.098	mg/Kg-dry	86.6	6/17/2016 10:51 PM
Xylene (Total)	0.18	U	0.091	0.18	0.29	mg/Kg-dry	86.6	6/17/2016 10:51 PM
Surr: 4-Bromofluorobenzene	90.9			79-119		%Rec	86.6	6/17/2016 10:51 PM
Surr: Dibromofluoromethane	86.4			78-119		%Rec	86.6	6/17/2016 10:51 PM
Surr: Toluene-d8	88.6			85-116		%Rec	86.6	6/17/2016 10:51 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 8:55:00 AM
Project:	Camp Hero		
Lab ID:	1606430-010	**Matrix:**	Soil
Client Sample ID:	AST35-SB04-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: KAL**
Acenaphthene	0.00091		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Benz(a)anthracene	0.0031		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Benzo(a)pyrene	0.0023		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Benzo(b)fluoranthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Benzo(g,h,i)perylene	0.0026		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Benzo(k)fluoranthene	0.0049		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Chrysene	0.0025		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Dibenzo(a,h)anthracene	0.0074		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Fluoranthene	0.0061		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Fluorene	0.0013		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Indeno(1,2,3-cd)pyrene	0.0022		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Phenanthrene	0.0071		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Pyrene	0.0063		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 9:49 PM
Surr: 2-Fluorobiphenyl	66.1			46-115		%Rec	1	7/11/2016 9:49 PM
Surr: Nitrobenzene-d5	78.4			44-125		%Rec	1	7/11/2016 9:49 PM
Surr: Terphenyl-d14	83.5			58-133		%Rec	1	7/11/2016 9:49 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00055	U	0.00024	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
1,3,5-Trimethylbenzene	0.00055	U	0.00018	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
Benzene	0.00055	U	0.00025	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
Ethylbenzene	0.00055	U	0.00020	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
Isopropylbenzene	0.00055	U	0.00017	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
Methyl tert-butyl ether [MTBE]	0.00055	U	0.00016	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
n-Butylbenzene	0.00055	U	0.00025	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
n-Propylbenzene	0.00055	U	0.00016	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
Naphthalene	0.00055	U	0.00047	0.00055	0.0046	mg/Kg-dry	0.81	6/15/2016 11:59 PM
p-Isopropyltoluene [p-Cymene]	0.00055	U	0.00024	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
sec-Butylbenzene	0.00092	U	0.00062	0.00092	0.0018	mg/Kg-dry	0.81	6/15/2016 11:59 PM
tert-Butylbenzene	0.00055	U	0.00050	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
Toluene	0.00055	U	0.00025	0.00055	0.00092	mg/Kg-dry	0.81	6/15/2016 11:59 PM
Xylene (Total)	0.0017	U	0.00042	0.0017	0.0028	mg/Kg-dry	0.81	6/15/2016 11:59 PM
Surr: 4-Bromofluorobenzene	85.7			79-119		%Rec	0.81	6/15/2016 11:59 PM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.81	6/15/2016 11:59 PM
Surr: Toluene-d8	89.4			85-116		%Rec	0.81	6/15/2016 11:59 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 10:15:00 AM
Project:	Camp Hero		
Lab ID:	1606430-011	**Matrix:**	Soil
Client Sample ID:	FPH-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: KAL**
Acenaphthene	0.0035		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Anthracene	0.0072		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Benz(a)anthracene	0.025		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Benzo(a)pyrene	0.015		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Benzo(b)fluoranthene	0.026		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Benzo(g,h,i)perylene	0.0090		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Benzo(k)fluoranthene	0.0047		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Chrysene	0.015		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Dibenzo(a,h)anthracene	0.0039		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Fluoranthene	0.046		0.0023	0.0023	0.0023	mg/Kg-dry	3	7/27/2016 3:00 PM
Fluorene	0.0041		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Indeno(1,2,3-cd)pyrene	0.0076		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Phenanthrene	0.037		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Pyrene	0.038		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/11/2016 10:17 PM
Surr: 2-Fluorobiphenyl	71.5			46-115		%Rec	1	7/11/2016 10:17 PM
Surr: Nitrobenzene-d5	83.9			44-125		%Rec	1	7/11/2016 10:17 PM
Surr: Terphenyl-d14	88.7			58-133		%Rec	1	7/11/2016 10:17 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00065	U	0.00028	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
1,3,5-Trimethylbenzene	0.00065	U	0.00022	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
Benzene	0.00065	U	0.00029	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
Ethylbenzene	0.00065	U	0.00024	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
Isopropylbenzene	0.00065	U	0.00021	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
Methyl tert-butyl ether [MTBE]	0.00065	U	0.00019	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
n-Butylbenzene	0.00065	U	0.00029	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
n-Propylbenzene	0.00065	U	0.00019	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
Naphthalene	0.00065	U	0.00056	0.00065	0.0055	mg/Kg-dry	0.96	6/16/2016 10:19 AM
p-Isopropyltoluene [p-Cymene]	0.00065	U	0.00029	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
sec-Butylbenzene	0.0011	U	0.00074	0.0011	0.0022	mg/Kg-dry	0.96	6/16/2016 10:19 AM
tert-Butylbenzene	0.00065	U	0.00060	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
Toluene	0.00065	U	0.00029	0.00065	0.0011	mg/Kg-dry	0.96	6/16/2016 10:19 AM
Xylene (Total)	0.0020	U	0.00050	0.0020	0.0033	mg/Kg-dry	0.96	6/16/2016 10:19 AM
Surr: 4-Bromofluorobenzene	85.2			79-119		%Rec	0.96	6/16/2016 10:19 AM
Surr: Dibromofluoromethane	95.6			78-119		%Rec	0.96	6/16/2016 10:19 AM
Surr: Toluene-d8	88.6			85-116		%Rec	0.96	6/16/2016 10:19 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 10:15:00 AM
Project:	Camp Hero		
Lab ID:	1606430-012	**Matrix:**	Soil
Client Sample ID:	FPH-SS01-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: KAL**
Acenaphthene	0.0030		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Anthracene	0.0039		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Benz(a)anthracene	0.0021		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Benzo(a)pyrene	0.0016		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Benzo(b)fluoranthene	0.0035		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Benzo(g,h,i)perylene	0.0016		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Benzo(k)fluoranthene	0.0010		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Chrysene	0.0019		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Fluoranthene	0.0041		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Fluorene	0.0030		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Indeno(1,2,3-cd)pyrene	0.0013		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Phenanthrene	0.0047		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Pyrene	0.0039		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/11/2016 10:45 PM
Surr: 2-Fluorobiphenyl	73.5			46-115		%Rec	1	7/11/2016 10:45 PM
Surr: Nitrobenzene-d5	88.3			44-125		%Rec	1	7/11/2016 10:45 PM
Surr: Terphenyl-d14	93.7			58-133		%Rec	1	7/11/2016 10:45 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00055	U	0.00024	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
1,3,5-Trimethylbenzene	0.00055	U	0.00018	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
Benzene	0.00055	U	0.00025	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
Ethylbenzene	0.00055	U	0.00021	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
Isopropylbenzene	0.00055	U	0.00017	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
Methyl tert-butyl ether [MTBE]	0.00055	U	0.00016	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
n-Butylbenzene	0.00055	U	0.00025	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
n-Propylbenzene	0.00055	U	0.00016	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
Naphthalene	0.00055	U	0.00047	0.00055	0.0046	mg/Kg-dry	0.83	6/16/2016 12:52 AM
p-Isopropyltoluene [p-Cymene]	0.00055	U	0.00024	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
sec-Butylbenzene	0.00092	U	0.00062	0.00092	0.0018	mg/Kg-dry	0.83	6/16/2016 12:52 AM
tert-Butylbenzene	0.00055	U	0.00050	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
Toluene	0.00055	U	0.00025	0.00055	0.00092	mg/Kg-dry	0.83	6/16/2016 12:52 AM
Xylene (Total)	0.0017	U	0.00042	0.0017	0.0028	mg/Kg-dry	0.83	6/16/2016 12:52 AM
Surr: 4-Bromofluorobenzene	82.2			79-119		%Rec	0.83	6/16/2016 12:52 AM
Surr: Dibromofluoromethane	102			78-119		%Rec	0.83	6/16/2016 12:52 AM
Surr: Toluene-d8	89.0			85-116		%Rec	0.83	6/16/2016 12:52 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.8		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606430-013	**Matrix:**	Soil
Client Sample ID:	FPH-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: KAL**
Acenaphthene	0.0036		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Acenaphthylene	0.0019		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Anthracene	0.0076		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Benz(a)anthracene	0.033		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Benzo(a)pyrene	0.023		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Benzo(b)fluoranthene	0.038		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Benzo(g,h,i)perylene	0.016		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Benzo(k)fluoranthene	0.013		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Chrysene	0.025		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Dibenzo(a,h)anthracene	0.0046		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Fluoranthene	0.058		0.0077	0.0077	0.0077	mg/Kg-dry	10	7/27/2016 3:28 PM
Fluorene	0.0056		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Indeno(1,2,3-cd)pyrene	0.014		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/11/2016 11:12 PM
Phenanthrene	0.053		0.0077	0.0077	0.0077	mg/Kg-dry	10	7/27/2016 3:28 PM
Pyrene	0.049		0.0077	0.0077	0.0077	mg/Kg-dry	10	7/27/2016 3:28 PM
Surr: 2-Fluorobiphenyl	68.8			46-115		%Rec	1	7/11/2016 11:12 PM
Surr: Nitrobenzene-d5	77.4			44-125		%Rec	1	7/11/2016 11:12 PM
Surr: Terphenyl-d14	90.9			58-133		%Rec	1	7/11/2016 11:12 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.058	QU	0.025	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
1,3,5-Trimethylbenzene	0.058	U	0.055	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
Benzene	0.058	U	0.020	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
Ethylbenzene	0.058	U	0.022	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
Isopropylbenzene	0.058	U	0.024	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
Methyl tert-butyl ether [MTBE]	0.058	U	0.039	0.058	0.19	mg/Kg-dry	83.9	6/17/2016 11:15 PM
n-Butylbenzene	0.058	U	0.026	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
n-Propylbenzene	0.058	U	0.023	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
Naphthalene	0.058	ZU	0.050	0.058	0.49	mg/Kg-dry	83.9	6/17/2016 11:15 PM
p-Isopropyltoluene [p-Cymene]	0.058	U	0.024	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
sec-Butylbenzene	0.058	U	0.030	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
tert-Butylbenzene	0.058	U	0.027	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
Toluene	0.058	U	0.026	0.058	0.097	mg/Kg-dry	83.9	6/17/2016 11:15 PM
Xylene (Total)	0.18	U	0.090	0.18	0.29	mg/Kg-dry	83.9	6/17/2016 11:15 PM
Surr: 4-Bromofluorobenzene	89.5			79-119		%Rec	83.9	6/17/2016 11:15 PM
Surr: Dibromofluoromethane	87.1			78-119		%Rec	83.9	6/17/2016 11:15 PM
Surr: Toluene-d8	88.3			85-116		%Rec	83.9	6/17/2016 11:15 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:45:00 AM
Project:	Camp Hero		
Lab ID:	1606430-014	**Matrix:**	Soil
Client Sample ID:	FPH-SB02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: KAL**
Acenaphthene	0.0014		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Acenaphthylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Anthracene	0.00098		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Benz(a)anthracene	0.0020		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Benzo(a)pyrene	0.0015		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Benzo(b)fluoranthene	0.0030		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Benzo(g,h,i)perylene	0.0013		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Benzo(k)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Chrysene	0.0017		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Dibenzo(a,h)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Fluoranthene	0.0042		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Fluorene	0.0024		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Indeno(1,2,3-cd)pyrene	0.0011		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Phenanthrene	0.011		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Pyrene	0.0045		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/11/2016 11:40 PM
Surr: 2-Fluorobiphenyl	67.0			46-115		%Rec	1	7/11/2016 11:40 PM
Surr: Nitrobenzene-d5	78.7			44-125		%Rec	1	7/11/2016 11:40 PM
Surr: Terphenyl-d14	86.1			58-133		%Rec	1	7/11/2016 11:40 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00056	U	0.00024	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
1,3,5-Trimethylbenzene	0.00056	U	0.00019	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
Benzene	0.00056	U	0.00025	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
Ethylbenzene	0.00056	U	0.00021	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
Isopropylbenzene	0.00056	U	0.00018	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
Methyl tert-butyl ether [MTBE]	0.00056	U	0.00017	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
n-Butylbenzene	0.00056	U	0.00025	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
n-Propylbenzene	0.00056	U	0.00016	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
Naphthalene	0.00056	U	0.00048	0.00056	0.0047	mg/Kg-dry	0.86	6/16/2016 1:45 AM
p-Isopropyltoluene [p-Cymene]	0.00056	U	0.00025	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
sec-Butylbenzene	0.00094	U	0.00064	0.00094	0.0019	mg/Kg-dry	0.86	6/16/2016 1:45 AM
tert-Butylbenzene	0.00056	U	0.00051	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
Toluene	0.00056	U	0.00025	0.00056	0.00094	mg/Kg-dry	0.86	6/16/2016 1:45 AM
Xylene (Total)	0.0017	U	0.00043	0.0017	0.0028	mg/Kg-dry	0.86	6/16/2016 1:45 AM
Surr: 4-Bromofluorobenzene	85.8			79-119		%Rec	0.86	6/16/2016 1:45 AM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.86	6/16/2016 1:45 AM
Surr: Toluene-d8	89.3			85-116		%Rec	0.86	6/16/2016 1:45 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	8.3		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:30:00 AM
Project:	Camp Hero		
Lab ID:	1606430-015	**Matrix:**	Soil
Client Sample ID:	FPH-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: KAL**
Acenaphthene	0.0013		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Acenaphthylene	0.0030		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Anthracene	0.12		0.0084	0.0084	0.0084	mg/Kg-dry	10	7/27/2016 3:56 PM
Benz(a)anthracene	0.011		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Benzo(a)pyrene	0.0081		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Benzo(b)fluoranthene	0.017		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Benzo(g,h,i)perylene	0.0074		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Benzo(k)fluoranthene	0.0036		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Chrysene	0.0090		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Dibenzo(a,h)anthracene	0.0018		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Fluoranthene	0.015		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Fluorene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Indeno(1,2,3-cd)pyrene	0.0062		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Phenanthrene	0.030		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Pyrene	0.018		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/12/2016 12:07 AM
Surr: 2-Fluorobiphenyl	64.2			46-115		%Rec	1	7/12/2016 12:07 AM
Surr: Nitrobenzene-d5	78.0			44-125		%Rec	1	7/12/2016 12:07 AM
Surr: Terphenyl-d14	79.1			58-133		%Rec	1	7/12/2016 12:07 AM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.084	QU	0.036	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
1,3,5-Trimethylbenzene	0.084	U	0.080	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
Benzene	0.084	U	0.029	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
Ethylbenzene	0.084	U	0.031	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
Isopropylbenzene	0.084	U	0.034	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
Methyl tert-butyl ether [MTBE]	0.084	U	0.056	0.084	0.28	mg/Kg-dry	111.3	6/17/2016 11:40 PM
n-Butylbenzene	0.084	U	0.038	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
n-Propylbenzene	0.084	U	0.034	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
Naphthalene	0.084	ZU	0.072	0.084	0.70	mg/Kg-dry	111.3	6/17/2016 11:40 PM
p-Isopropyltoluene [p-Cymene]	0.084	U	0.034	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
sec-Butylbenzene	0.084	U	0.043	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
tert-Butylbenzene	0.084	U	0.039	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
Toluene	0.084	U	0.038	0.084	0.14	mg/Kg-dry	111.3	6/17/2016 11:40 PM
Xylene (Total)	0.25	U	0.13	0.25	0.42	mg/Kg-dry	111.3	6/17/2016 11:40 PM
Surr: 4-Bromofluorobenzene	90.6			79-119		%Rec	111.3	6/17/2016 11:40 PM
Surr: Dibromofluoromethane	87.7			78-119		%Rec	111.3	6/17/2016 11:40 PM
Surr: Toluene-d8	88.3			85-116		%Rec	111.3	6/17/2016 11:40 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	21		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 9:35:00 AM
Project: Camp Hero
Lab ID: 1606430-016 **Matrix:** Soil
Client Sample ID: FPH-SB03-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: KAL**
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Acenaphthylene	0.0021		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Anthracene	0.11		0.0023	0.0023	0.0023	mg/Kg-dry	3	7/27/2016 8:08 PM
Benz(a)anthracene	0.010		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Benzo(a)pyrene	0.0060		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Benzo(b)fluoranthene	0.012		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Benzo(g,h,i)perylene	0.0063		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Benzo(k)fluoranthene	0.0020		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Chrysene	0.0061		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Indeno(1,2,3-cd)pyrene	0.0053		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Phenanthrene	0.030		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 12:34 AM
Surr: 2-Fluorobiphenyl	26.5	Q		46-115		%Rec	1	7/12/2016 12:34 AM
Surr: Nitrobenzene-d5	78.0			44-125		%Rec	1	7/12/2016 12:34 AM
Surr: Terphenyl-d14	92.3			58-133		%Rec	1	7/12/2016 12:34 AM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00060	U	0.00026	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
1,3,5-Trimethylbenzene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
Isopropylbenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
Methyl tert-butyl ether [MTBE]	0.00060	U	0.00018	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
n-Butylbenzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
n-Propylbenzene	0.00060	U	0.00018	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
Naphthalene	0.00060	U	0.00051	0.00060	0.0050	mg/Kg-dry	0.87	6/16/2016 11:39 AM
p-Isopropyltoluene [p-Cymene]	0.0017		0.00026	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
sec-Butylbenzene	0.0010	U	0.00068	0.0010	0.0020	mg/Kg-dry	0.87	6/16/2016 11:39 AM
tert-Butylbenzene	0.00060	U	0.00055	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
Toluene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg-dry	0.87	6/16/2016 11:39 AM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg-dry	0.87	6/16/2016 11:39 AM
Surr: 4-Bromofluorobenzene	81.2			79-119		%Rec	0.87	6/16/2016 11:39 AM
Surr: Dibromofluoromethane	98.5			78-119		%Rec	0.87	6/16/2016 11:39 AM
Surr: Toluene-d8	89.5			85-116		%Rec	0.87	6/16/2016 11:39 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606430-017	**Matrix:**	Soil
Client Sample ID:	FPH-SB04-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: KAL**
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Anthracene	0.036		0.0077	0.0077	0.0077	mg/Kg-dry	10	7/27/2016 4:52 PM
Benz(a)anthracene	0.019		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Benzo(a)pyrene	0.0085		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Benzo(b)fluoranthene	0.018		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Benzo(g,h,i)perylene	0.0048		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Benzo(k)fluoranthene	0.0064		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Chrysene	0.013		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Dibenzo(a,h)anthracene	0.0020		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Fluoranthene	0.024		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Phenanthrene	0.038		0.0077	0.0077	0.0077	mg/Kg-dry	10	7/27/2016 4:52 PM
Pyrene	0.037		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/12/2016 1:02 AM
Surr: 2-Fluorobiphenyl	52.7			46-115		%Rec	1	7/12/2016 1:02 AM
Surr: Nitrobenzene-d5	72.7			44-125		%Rec	1	7/12/2016 1:02 AM
Surr: Terphenyl-d14	84.1			58-133		%Rec	1	7/12/2016 1:02 AM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.064	QU	0.028	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
1,3,5-Trimethylbenzene	0.064	U	0.061	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
Benzene	0.064	U	0.022	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
Ethylbenzene	0.064	U	0.024	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
Isopropylbenzene	0.064	U	0.026	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
Methyl tert-butyl ether [MTBE]	0.064	U	0.043	0.064	0.21	mg/Kg-dry	93.3	6/18/2016 12:05 AM
n-Butylbenzene	0.064	U	0.029	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
n-Propylbenzene	0.064	U	0.026	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
Naphthalene	0.064	ZU	0.055	0.064	0.54	mg/Kg-dry	93.3	6/18/2016 12:05 AM
p-Isopropyltoluene [p-Cymene]	0.064	U	0.026	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
sec-Butylbenzene	0.064	U	0.033	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
tert-Butylbenzene	0.064	U	0.029	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
Toluene	0.064	U	0.029	0.064	0.11	mg/Kg-dry	93.3	6/18/2016 12:05 AM
Xylene (Total)	0.19	U	0.099	0.19	0.32	mg/Kg-dry	93.3	6/18/2016 12:05 AM
Surr: 4-Bromofluorobenzene	92.2			79-119		%Rec	93.3	6/18/2016 12:05 AM
Surr: Dibromofluoromethane	88.7			78-119		%Rec	93.3	6/18/2016 12:05 AM
Surr: Toluene-d8	88.9			85-116		%Rec	93.3	6/18/2016 12:05 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606430-018	**Matrix:**	Soil
Client Sample ID:	FPH-SB04-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: KAL**
Acenaphthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Acenaphthylene	0.015		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Anthracene	0.050		0.0075	0.0075	0.0075	mg/Kg-dry	10	7/27/2016 5:20 PM
Benz(a)anthracene	0.0040		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Benzo(a)pyrene	0.0016		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Benzo(b)fluoranthene	0.0039		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Benzo(g,h,i)perylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Benzo(k)fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Chrysene	0.0036		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Fluoranthene	0.026		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Fluorene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Indeno(1,2,3-cd)pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/12/2016 1:29 AM
Phenanthrene	0.38	J	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/27/2016 5:20 PM
Pyrene	0.033		0.0075	0.0075	0.0075	mg/Kg-dry	10	7/27/2016 5:20 PM
Surr: 2-Fluorobiphenyl	66.5			46-115		%Rec	1	7/12/2016 1:29 AM
Surr: Nitrobenzene-d5	109			44-125		%Rec	1	7/12/2016 1:29 AM
Surr: Terphenyl-d14	104			58-133		%Rec	1	7/12/2016 1:29 AM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00086	U	0.00037	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
1,3,5-Trimethylbenzene	0.00086	U	0.00029	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
Benzene	0.00086	U	0.00039	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
Ethylbenzene	0.0012	J	0.00032	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
Isopropylbenzene	0.0018		0.00027	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
Methyl tert-butyl ether [MTBE]	0.00086	U	0.00026	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
n-Butylbenzene	0.0026		0.00039	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
n-Propylbenzene	0.0024		0.00025	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
Naphthalene	0.00086	U	0.00074	0.00086	0.0072	mg/Kg-dry	1.28	6/16/2016 3:30 AM
p-Isopropyltoluene [p-Cymene]	0.00086	U	0.00038	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
sec-Butylbenzene	0.0022	J	0.00098	0.0014	0.0029	mg/Kg-dry	1.28	6/16/2016 3:30 AM
tert-Butylbenzene	0.00086	U	0.00079	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
Toluene	0.00086	U	0.00039	0.00086	0.0014	mg/Kg-dry	1.28	6/16/2016 3:30 AM
Xylene (Total)	0.0026	U	0.00066	0.0026	0.0043	mg/Kg-dry	1.28	6/16/2016 3:30 AM
Surr: 4-Bromofluorobenzene	95.8			79-119		%Rec	1.28	6/16/2016 3:30 AM
Surr: Dibromofluoromethane	102			78-119		%Rec	1.28	6/16/2016 3:30 AM
Surr: Toluene-d8	90.7			85-116		%Rec	1.28	6/16/2016 3:30 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - DATES REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606430-001A	AST35-SB01-05	6/12/2016 9:45 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/15/2016 3:37 PM	6/15/2016 3:37 PM
1606430-001D	AST35-SB01-05	6/12/2016 9:45 AM	Soil	SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/27/2016 2:04 PM
1606430-001E	AST35-SB01-05	6/12/2016 9:45 AM	Soil	PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606430-002A	AST35-SB01-05 DUP	6/12/2016 9:45 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/15/2016 4:03 PM	6/15/2016 4:03 PM
1606430-002D	AST35-SB01-05 DUP	6/12/2016 9:45 AM	Soil	SW_8270S-SIM-Semi-Volatile Organic Compounds		6/17/2016 3:18 PM	7/27/2016 2:32 PM
1606430-002E	AST35-SB01-05 DUP	6/12/2016 9:45 AM	Soil	PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606430-003A	AST35-SB01-06	6/12/2016 9:50 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/15/2016 4:30 PM	6/15/2016 4:30 PM
1606430-003D	AST35-SB01-06	6/12/2016 9:50 AM	Soil	SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 7:31 PM
1606430-003E	AST35-SB01-06	6/12/2016 9:50 AM	Soil	PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606430-004A	TB-SO-061216-01	6/12/2016 8:00 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/16/2016 9:53 AM	6/16/2016 9:53 AM
1606430-005A	AST35-SB02-02	6/12/2016 10:10 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/15/2016 5:23 PM	6/15/2016 5:23 PM
1606430-005D	AST35-SB02-02	6/12/2016 10:10 AM	Soil	SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 7:58 PM
1606430-005E	AST35-SB02-02	6/12/2016 10:10 AM	Soil	PMOIST-Percent Moisture		6/15/2016 11:30 AM	6/15/2016 11:30 AM
1606430-006A	AST35-SB02-03	6/12/2016 10:15 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/15/2016 5:49 PM	6/15/2016 5:49 PM
1606430-006D	AST35-SB02-03	6/12/2016 10:15 AM	Soil	SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 8:26 PM
1606430-006E	AST35-SB02-03	6/12/2016 10:15 AM	Soil	PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM

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WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606430-007A	AST35-SS03-01	6/12/2016 9:10 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/15/2016 9:47 PM	6/15/2016 9:47 PM
1606430-007D	AST35-SS03-01	6/12/2016 9:10 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 8:53 PM
1606430-007E	AST35-SS03-01	6/12/2016 9:10 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606430-008A	AST35-SB03-02	6/12/2016 9:15 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/15/2016 10:13 PM	6/15/2016 10:13 PM
1606430-008D	AST35-SB03-02	6/12/2016 9:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 9:21 PM
1606430-008E	AST35-SB03-02	6/12/2016 9:15 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606430-009C	AST35-SB04-03	6/12/2016 8:40 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/17/2016 10:51 PM	6/17/2016 10:51 PM
1606430-009D	AST35-SB04-03	6/12/2016 8:40 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 6:08 PM
1606430-009E	AST35-SB04-03	6/12/2016 8:40 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606430-010A	AST35-SB04-04	6/12/2016 8:55 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/15/2016 11:59 PM	6/15/2016 11:59 PM
1606430-010D	AST35-SB04-04	6/12/2016 8:55 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 9:49 PM
1606430-010E	AST35-SB04-04	6/12/2016 8:55 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606430-011A	FPH-SS01-01	6/12/2016 10:15 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 10:19 AM	6/16/2016 10:19 AM
1606430-011D	FPH-SS01-01	6/12/2016 10:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 10:17 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/27/2016 3:00 PM
1606430-011E	FPH-SS01-01	6/12/2016 10:15 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM

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Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606430-012A	FPH-SS01-01 DUP	6/12/2016 10:15 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 12:52 AM	6/16/2016 12:52 AM
1606430-012D	FPH-SS01-01 DUP	6/12/2016 10:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 10:45 PM
1606430-012E	FPH-SS01-01 DUP	6/12/2016 10:15 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606430-013C	FPH-SS02-01	6/12/2016 9:40 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/17/2016 11:15 PM	6/17/2016 11:15 PM
1606430-013D	FPH-SS02-01	6/12/2016 9:40 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 11:12 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/27/2016 3:28 PM
1606430-013E	FPH-SS02-01	6/12/2016 9:40 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606430-014A	FPH-SB02-02	6/12/2016 9:45 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 1:45 AM	6/16/2016 1:45 AM
1606430-014D	FPH-SB02-02	6/12/2016 9:45 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/11/2016 11:40 PM
1606430-014E	FPH-SB02-02	6/12/2016 9:45 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606430-015C	FPH-SS03-01	6/12/2016 9:30 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/17/2016 11:40 PM	6/17/2016 11:40 PM
1606430-015D	FPH-SS03-01	6/12/2016 9:30 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/12/2016 12:07 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/27/2016 3:56 PM
1606430-015E	FPH-SS03-01	6/12/2016 9:30 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606430-016A	FPH-SB03-02	6/12/2016 9:35 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 11:39 AM	6/16/2016 11:39 AM
1606430-016D	FPH-SB03-02	6/12/2016 9:35 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/12/2016 12:34 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/27/2016 4:24 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/27/2016 8:08 PM

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Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606430-016E	FPH-SB03-02	6/12/2016 9:35 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606430-017C	FPH-SB04-04	6/12/2016 9:00 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/18/2016 12:05 AM	6/18/2016 12:05 AM
1606430-017D	FPH-SB04-04	6/12/2016 9:00 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/12/2016 1:02 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/27/2016 4:52 PM
1606430-017E	FPH-SB04-04	6/12/2016 9:00 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606430-018A	FPH-SB04-05	6/12/2016 8:50 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 3:30 AM	6/16/2016 3:30 AM
1606430-018D	FPH-SB04-05	6/12/2016 8:50 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/12/2016 1:29 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/27/2016 5:20 PM
1606430-018E	FPH-SB04-05	6/12/2016 8:50 AM	Soil				
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM

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WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID:	**MB-40193**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**87637**
Client ID:	**PBS**	Batch ID:	**40193**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/3/2016**	SeqNo:	**1702346**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benz(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	14		16.63		83.0	46	115				
Surr: Nitrobenzene-d5	12		16.63		71.5	44	125				
Surr: Terphenyl-d14	18		16.63		105	58	133				

Sample ID:	**LCS-40193**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**87637**
Client ID:	**LCSS**	Batch ID:	**40193**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/3/2016**	SeqNo:	**1702347**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.014	0.00067	0.013	0	106	44	111				
Acenaphthylene	0.014	0.00067	0.013	0	106	39	116				
Anthracene	0.014	0.00067	0.013	0	105	50	114				
Benz(a)anthracene	0.018	0.00067	0.013	0	134	54	122				Q
Benzo(a)pyrene	0.013	0.00067	0.013	0	101	50	125				
Benzo(b)fluoranthene	0.016	0.00067	0.013	0	119	53	128				
Benzo(g,h,i)perylene	0.016	0.00067	0.013	0	123	49	127				
Benzo(k)fluoranthene	0.0098	0.00067	0.013	0	74.0	56	123				

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WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID:	LCS-40193	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	LCSS	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1702347

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.013	0.00067	0.013	0	98.1	57	118				
Dibenzo(a,h)anthracene	0.017	0.00067	0.013	0	129	50	129				
Fluoranthene	0.013	0.00067	0.013	0	97.0	55	119				
Fluorene	0.015	0.00067	0.013	0	116	47	114				Q
Indeno(1,2,3-cd)pyrene	0.016	0.00067	0.013	0	122	49	130				
Phenanthrene	0.017	0.00067	0.013	0	129	49	113				Q
Pyrene	0.016	0.00067	0.013	0	117	55	117				Q
Surr: 2-Fluorobiphenyl	14		16.59		85.6	46	115				
Surr: Nitrobenzene-d5	17		16.59		102	44	125				
Surr: Terphenyl-d14	19		16.59		112	58	133				

Sample ID:	1606425-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	ZZZZZZ	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1702350

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.014	0.00074	0.015	0	94.8	44	111	0	0	25	
Acenaphthylene	0.014	0.00074	0.015	0	96.4	39	116	0	0	25	
Anthracene	0.014	0.00074	0.015	0	92.8	50	114	0	0	25	
Benz(a)anthracene	0.018	0.00074	0.015	0	121	54	122	0	0	25	
Benzo(a)pyrene	0.013	0.00074	0.015	0	85.4	50	125	0	0	25	
Benzo(b)fluoranthene	0.016	0.00074	0.015	0	106	53	128	0	0	25	
Benzo(g,h,i)perylene	0.014	0.00074	0.015	0	97.6	49	127	0	0	25	
Benzo(k)fluoranthene	0.014	0.00074	0.015	0	92.8	56	123	0	0	25	
Chrysene	0.012	0.00074	0.015	0	84.7	57	118	0	0	25	
Dibenzo(a,h)anthracene	0.015	0.00074	0.015	0	106	50	129	0	0	25	
Fluoranthene	0.013	0.00074	0.015	0	86.4	55	119	0	0	25	
Fluorene	0.015	0.00074	0.015	0	105	47	114	0	0	25	
Indeno(1,2,3-cd)pyrene	0.015	0.00074	0.015	0	99.3	49	130	0	0	25	
Phenanthrene	0.017	0.00074	0.015	0	116	49	113	0	0	25	Q
Pyrene	0.015	0.00074	0.015	0	104	55	117	0	0	25	
Surr: 2-Fluorobiphenyl	13		18.31		73.7	46	115		0	25	

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Date Reported: 8/29/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40193**

Sample ID:	1606425-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	ZZZZZZ	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1702350

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	15		18.31		83.2	44	125		0	25	
Surr: Terphenyl-d14	18		18.31		96.9	58	133		0	25	

Sample ID:	1606425-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/17/2016	RunNo:	87637
Client ID:	ZZZZZZ	Batch ID:	40193	TestNo:	SW8270C	SW3550C		Analysis Date:	7/3/2016	SeqNo:	1708624

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.013	0.00073	0.015	0	89.5	44	111				
Acenaphthylene	0.013	0.00073	0.015	0	89.6	39	116				
Anthracene	0.013	0.00073	0.015	0	88.6	50	114				
Benz(a)anthracene	0.018	0.00073	0.015	0	120	54	122				
Benzo(a)pyrene	0.011	0.00073	0.015	0	76.4	50	125				
Benzo(b)fluoranthene	0.015	0.00073	0.015	0	103	53	128				
Benzo(g,h,i)perylene	0.016	0.00073	0.015	0	113	49	127				
Benzo(k)fluoranthene	0.012	0.00073	0.015	0	85.2	56	123				
Chrysene	0.012	0.00073	0.015	0	80.2	57	118				
Dibenzo(a,h)anthracene	0.015	0.00073	0.015	0	100	50	129				
Fluoranthene	0.012	0.00073	0.015	0	83.6	55	119				
Fluorene	0.015	0.00073	0.015	0	99.3	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00073	0.015	0	94.6	49	130				
Phenanthrene	0.016	0.00073	0.015	0	112	49	113				
Pyrene	0.015	0.00073	0.015	0	99.7	55	117				
Surr: 2-Fluorobiphenyl	13		18.28		70.4	46	115				
Surr: Nitrobenzene-d5	14		18.28		77.0	44	125				
Surr: Terphenyl-d14	17		18.28		93.3	58	133				

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40198

Sample ID: **1606430-009DMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/20/2016** RunNo: **87308**

Client ID: **AST35-SB04-03MS1** Batch ID: **40198** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/11/2016** SeqNo: **1694634**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.013	0.00075	0.015	0	84.2	44	111				
Acenaphthylene	0.013	0.00075	0.015	0	87.8	39	116				
Anthracene	0.013	0.00075	0.015	0.0010	79.0	50	114				
Benz(a)anthracene	0.020	0.00075	0.015	0.0071	86.2	54	122				
Benzo(a)pyrene	0.015	0.00075	0.015	0.0054	62.0	50	125				
Benzo(b)fluoranthene	0.020	0.00075	0.015	0.0083	78.9	53	128				
Benzo(g,h,i)perylene	0.016	0.00075	0.015	0.0041	81.8	49	127				
Benzo(k)fluoranthene	0.012	0.00075	0.015	0.0031	61.1	56	123				
Chrysene	0.014	0.00075	0.015	0.0050	58.8	57	118				
Dibenzo(a,h)anthracene	0.016	0.00075	0.015	0	106	50	129				
Fluoranthene	0.017	0.00075	0.015	0.011	39.2	55	119				Q
Fluorene	0.014	0.00075	0.015	0	94.2	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00075	0.015	0.0035	68.7	49	130				
Phenanthrene	0.019	0.00075	0.015	0.0079	76.0	49	113				
Pyrene	0.019	0.00075	0.015	0.011	53.7	55	117				Q
Surr: 2-Fluorobiphenyl	13		18.73		70.3	46	115				
Surr: Nitrobenzene-d5	15		18.73		80.6	44	125				
Surr: Terphenyl-d14	16		18.73		87.0	58	133				

Sample ID: **1606430-009DMSD** Samp Type: **MSD** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/20/2016** RunNo: **87308**

Client ID: **AST35-SB04-03SD1** Batch ID: **40198** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/11/2016** SeqNo: **1694635**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.013	0.00076	0.015	0	88.5	44	111	0.013	5.91	25	
Acenaphthylene	0.014	0.00076	0.015	0	90.8	39	116	0.013	4.20	25	
Anthracene	0.014	0.00076	0.015	0.0010	84.0	50	114	0.013	6.55	25	
Benz(a)anthracene	0.021	0.00076	0.015	0.0071	94.5	54	122	0.020	6.56	25	
Benzo(a)pyrene	0.016	0.00076	0.015	0.0054	72.0	50	125	0.015	10.2	25	
Benzo(b)fluoranthene	0.022	0.00076	0.015	0.0083	91.1	53	128	0.020	9.22	25	
Benzo(g,h,i)perylene	0.016	0.00076	0.015	0.0041	80.0	49	127	0.016	1.02	25	
Benzo(k)fluoranthene	0.013	0.00076	0.015	0.0031	68.5	56	123	0.012	9.41	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40198

Sample ID:	1606430-009DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/20/2016	RunNo:	87308
Client ID:	AST35-SB04-03SD1	Batch ID:	40198	TestNo:	SW8270C	SW3550C		Analysis Date:	7/11/2016	SeqNo:	1694635

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.015	0.00076	0.015	0.0050	65.7	57	118	0.014	7.83	25	
Dibenzo(a,h)anthracene	0.017	0.00076	0.015	0	110	50	129	0.016	4.11	25	
Fluoranthene	0.021	0.00076	0.015	0.011	61.6	55	119	0.017	18.1	25	
Fluorene	0.015	0.00076	0.015	0	99.4	47	114	0.014	6.23	25	
Indeno(1,2,3-cd)pyrene	0.014	0.00076	0.015	0.0035	67.2	49	130	0.014	1.02	25	
Phenanthrene	0.024	0.00076	0.015	0.0079	105	49	113	0.019	20.8	25	
Pyrene	0.022	0.00076	0.015	0.011	71.7	55	117	0.019	13.5	25	
Surr: 2-Fluorobiphenyl	14		18.89		72.7	46	115		0	25	
Surr: Nitrobenzene-d5	16		18.89		83.2	44	125		0	25	
Surr: Terphenyl-d14	17		18.89		88.3	58	133		0	25	

Sample ID:	MB-1-40198	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	88041
Client ID:	PBS	Batch ID:	40198	TestNo:	SW8270C	SW3550C		Analysis Date:	7/11/2016	SeqNo:	1711840

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benz(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	12		16.63		69.7	46	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40198**

Sample ID:	MB-1-40198	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	88041
Client ID:	PBS	Batch ID:	40198	TestNo:	SW8270C	SW3550C		Analysis Date:	7/11/2016	SeqNo:	1711840

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	11		16.63		67.2	44	125				
Surr: Terphenyl-d14	14		16.63		85.3	58	133				

Sample ID:	LCS-1-40198	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	88041
Client ID:	LCSS	Batch ID:	40198	TestNo:	SW8270C	SW3550C		Analysis Date:	7/11/2016	SeqNo:	1711841

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.012	0.00067	0.013	0	87.3	44	111				
Acenaphthylene	0.012	0.00067	0.013	0	87.6	39	116				
Anthracene	0.011	0.00067	0.013	0	85.2	50	114				
Benz(a)anthracene	0.015	0.00067	0.013	0	110	54	122				
Benzo(a)pyrene	0.011	0.00067	0.013	0	84.7	50	125				
Benzo(b)fluoranthene	0.014	0.00067	0.013	0	104	53	128				
Benzo(g,h,i)perylene	0.013	0.00067	0.013	0	101	49	127				
Benzo(k)fluoranthene	0.011	0.00067	0.013	0	84.5	56	123				
Chrysene	0.010	0.00067	0.013	0	79.1	57	118				
Dibenzo(a,h)anthracene	0.014	0.00067	0.013	0	106	50	129				
Fluoranthene	0.010	0.00067	0.013	0	78.7	55	119				
Fluorene	0.013	0.00067	0.013	0	97.8	47	114				
Indeno(1,2,3-cd)pyrene	0.011	0.00067	0.013	0	85.1	49	130				
Phenanthrene	0.014	0.00067	0.013	0	109	49	113				
Pyrene	0.012	0.00067	0.013	0	94.2	55	117				
Surr: 2-Fluorobiphenyl	13		16.59		75.5	46	115				
Surr: Nitrobenzene-d5	14		16.59		84.0	44	125				
Surr: Terphenyl-d14	15		16.59		91.2	58	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86694

Sample ID:	VOA11B LCS 06151	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86694
Client ID:	LCSS	Batch ID:	R86694	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1681953

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0094	0.0010	0.010	0	93.7	75	123				
1,3,5-Trimethylbenzene	0.0094	0.0010	0.010	0	94.3	73	124				
Benzene	0.0095	0.0010	0.010	0	95.3	77	121				
Ethylbenzene	0.0092	0.0010	0.010	0	92.3	76	122				
Isopropylbenzene	0.0095	0.0010	0.010	0	94.7	68	134				
Methyl tert-butyl ether [MTBE]	0.0090	0.0010	0.010	0	89.6	73	125				
n-Butylbenzene	0.0095	0.0010	0.010	0	95.4	70	128				
n-Propylbenzene	0.0093	0.0010	0.010	0	93.2	73	125				
Naphthalene	0.0085	0.0050	0.010	0	84.9	62	129				
p-Isopropyltoluene [p-Cymene]	0.0094	0.0010	0.010	0	94.4	73	127				
sec-Butylbenzene	0.0099	0.0020	0.010	0	99.1	73	126				
tert-Butylbenzene	0.0095	0.0010	0.010	0	95.3	73	125				
Toluene	0.0095	0.0010	0.010	0	94.9	77	121				
Xylene (Total)	0.028	0.0030	0.030	0	94.3	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.8	79	119				
Surr: Dibromofluoromethane	56		60.00		93.8	78	119				
Surr: Toluene-d8	57		60.00		95.6	85	116				

Sample ID:	VOA11B LCSD 0615	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	%Rec	Prep Date:	6/15/2016	RunNo:	86694
Client ID:	LCSS02	Batch ID:	R86694	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1681954

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	57		60.00		94.9	79	119		0	25	
Surr: Dibromofluoromethane	56		60.00		93.2	78	119		0	25	
Surr: Toluene-d8	56		60.00		94.1	85	116		0	25	

Sample ID:	VOA11B MBLK 0615	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86694
Client ID:	PBS	Batch ID:	R86694	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1681956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86694**

Sample ID:	**VOA11B MBLK 0615**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86694**
Client ID:	**PBS**	Batch ID:	**R86694**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1681956**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	0.00060	0.0010									U
Benzene	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Isopropylbenzene	0.00060	0.0010									U
Methyl tert-butyl ether [MTBE]	0.00060	0.0010									U
n-Butylbenzene	0.00060	0.0010									U
n-Propylbenzene	0.00060	0.0010									U
Naphthalene	0.00060	0.0050									U
p-Isopropyltoluene [p-Cymene]	0.00060	0.0010									U
sec-Butylbenzene	0.0010	0.0020									U
tert-Butylbenzene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	43		50.00		85.3	79	119				
Surr: Dibromofluoromethane	45		50.00		90.9	78	119				
Surr: Toluene-d8	44		50.00		87.5	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86700**

Sample ID:	VOA11B LCS2 0615	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86700
Client ID:	LCSS	Batch ID:	R86700	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1682058

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0086	0.0010	0.010	0	86.3	75	123				
1,3,5-Trimethylbenzene	0.0089	0.0010	0.010	0	89.1	73	124				
Benzene	0.0098	0.0010	0.010	0	98.5	77	121				
Ethylbenzene	0.0087	0.0010	0.010	0	87.0	76	122				
Isopropylbenzene	0.0087	0.0010	0.010	0	86.8	68	134				
Methyl tert-butyl ether [MTBE]	0.010	0.0010	0.010	0	100	73	125				
n-Butylbenzene	0.0084	0.0010	0.010	0	84.3	70	128				
n-Propylbenzene	0.0086	0.0010	0.010	0	85.5	73	125				
Naphthalene	0.0089	0.0050	0.010	0	89.3	62	129				
p-Isopropyltoluene [p-Cymene]	0.0083	0.0010	0.010	0	83.1	73	127				
sec-Butylbenzene	0.0090	0.0020	0.010	0	90.5	73	126				
tert-Butylbenzene	0.0088	0.0010	0.010	0	87.6	73	125				
Toluene	0.0094	0.0010	0.010	0	93.9	77	121				
Xylene (Total)	0.026	0.0030	0.030	0	87.9	78	124				
Surr: 4-Bromofluorobenzene	58		60.00		96.5	79	119				
Surr: Dibromofluoromethane	58		60.00		97.2	78	119				
Surr: Toluene-d8	57		60.00		95.8	85	116				

Sample ID:	VOA11B LCSD2 061	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	%Rec	Prep Date:	6/15/2016	RunNo:	86700
Client ID:	LCSS02	Batch ID:	R86700	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1682059

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119		0	25	
Surr: Dibromofluoromethane	57		60.00		95.8	78	119		0	25	
Surr: Toluene-d8	56		60.00		93.8	85	116		0	25	

Sample ID:	VOA11B MBLK3 061	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86700
Client ID:	PBS	Batch ID:	R86700	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1682061

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86700

Sample ID:	VOA11B MBLK3061	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86700
Client ID:	PBS	Batch ID:	R86700	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1682061

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	0.00060	0.0010									U
Benzene	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Isopropylbenzene	0.00060	0.0010									U
Methyl tert-butyl ether [MTBE]	0.00060	0.0010									U
n-Butylbenzene	0.00060	0.0010									U
n-Propylbenzene	0.00060	0.0010									U
Naphthalene	0.00060	0.0050									U
p-Isopropyltoluene [p-Cymene]	0.00060	0.0010									U
sec-Butylbenzene	0.0010	0.0020									U
tert-Butylbenzene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	44		50.00		87.3	79	119				
Surr: Dibromofluoromethane	47		50.00		94.8	78	119				
Surr: Toluene-d8	44		50.00		88.2	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86711**

Sample ID:	**1606425-005BDUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/15/2016**	RunNo:	**86711**
Client ID:	**ZZZZZZ**	Batch ID:	**R86711**	TestNo:	**D2216**			Analysis Date:	**6/15/2016**	SeqNo:	**1682359**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	9.7	1.0						9.058	6.83	20	

Sample ID:	**1606430-005EDUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/15/2016**	RunNo:	**86711**
Client ID:	**AST35-SB02-02LR1**	Batch ID:	**R86711**	TestNo:	**D2216**			Analysis Date:	**6/15/2016**	SeqNo:	**1682375**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	9.3	1.0						9.664	4.37	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86713

Sample ID:	1606430-009EDUP	Samp Type:	DUP	Test Code:	PMOIST	Units:	wt%	Prep Date:	6/15/2016	RunNo:	86713
Client ID:	AST35-SB04-03LR1	Batch ID:	R86713	TestNo:	D2216			Analysis Date:	6/15/2016	SeqNo:	1682399

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	12	1.0						11.86	4.66	20	

Sample ID:	1606431-007ADUP	Samp Type:	DUP	Test Code:	PMOIST	Units:	wt%	Prep Date:	6/15/2016	RunNo:	86713
Client ID:	ZZZZZZ	Batch ID:	R86713	TestNo:	D2216			Analysis Date:	6/15/2016	SeqNo:	1682416

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	24	1.0						22.12	10.1	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86738

Sample ID:	VOA11B MBLK 0616	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	86738
Client ID:	PBS	Batch ID:	R86738	TestNo:	SW8260B			Analysis Date:	6/16/2016	SeqNo:	1682693

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.00060	0.0010									U
1,3,5-Trimethylbenzene	0.00060	0.0010									U
Benzene	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Isopropylbenzene	0.00060	0.0010									U
Methyl tert-butyl ether [MTBE]	0.00060	0.0010									U
n-Butylbenzene	0.00060	0.0010									U
n-Propylbenzene	0.00060	0.0010									U
Naphthalene	0.00060	0.0050									U
p-Isopropyltoluene [p-Cymene]	0.00060	0.0010									U
sec-Butylbenzene	0.0010	0.0020									U
tert-Butylbenzene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	44		50.00		87.7	79	119				
Surr: Dibromofluoromethane	46		50.00		91.7	78	119				
Surr: Toluene-d8	45		50.00		89.2	85	116				

Sample ID:	VOA11B LCS 06161	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	86738
Client ID:	LCSS	Batch ID:	R86738	TestNo:	SW8260B			Analysis Date:	6/16/2016	SeqNo:	1682728

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0092	0.0010	0.010	0	91.9	75	123				
1,3,5-Trimethylbenzene	0.0095	0.0010	0.010	0	95.4	73	124				
Benzene	0.010	0.0010	0.010	0	104	77	121				
Ethylbenzene	0.0093	0.0010	0.010	0	93.0	76	122				
Isopropylbenzene	0.0093	0.0010	0.010	0	93.0	68	134				
Methyl tert-butyl ether [MTBE]	0.0093	0.0010	0.010	0	92.8	73	125				
n-Butylbenzene	0.0099	0.0010	0.010	0	99.2	70	128				
n-Propylbenzene	0.0094	0.0010	0.010	0	93.9	73	125				
Naphthalene	0.0070	0.0050	0.010	0	70.1	62	129				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86738

Sample ID:	VOA11B LCS 06161	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	86738
Client ID:	LCSS	Batch ID:	R86738	TestNo:	SW8260B			Analysis Date:	6/16/2016	SeqNo:	1682728

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.0093	0.0010	0.010	0	93.3	73	127				
sec-Butylbenzene	0.010	0.0020	0.010	0	99.8	73	126				
tert-Butylbenzene	0.0093	0.0010	0.010	0	92.8	73	125				
Toluene	0.0099	0.0010	0.010	0	99.4	77	121				
Xylene (Total)	0.028	0.0030	0.030	0	93.8	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119				
Surr: Dibromofluoromethane	58		60.00		96.5	78	119				
Surr: Toluene-d8	58		60.00		97.4	85	116				

Sample ID:	VOA11B LCSD 0616	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	86738
Client ID:	LCSS02	Batch ID:	R86738	TestNo:	SW8260B			Analysis Date:	6/16/2016	SeqNo:	1682729

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	58		60.00		96.6	79	119		0	25	
Surr: Dibromofluoromethane	58		60.00		95.9	78	119		0	25	
Surr: Toluene-d8	59		60.00		97.6	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID:	VOA11B LCS2 0617	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86770
Client ID:	LCSS	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1683522

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.37	0.050	0.50	0	74.8	75	123				Q
1,3,5-Trimethylbenzene	0.46	0.050	0.50	0	92.1	73	124				
Benzene	0.46	0.050	0.50	0	91.2	77	121				
Ethylbenzene	0.44	0.050	0.50	0	88.9	76	122				
Isopropylbenzene	0.39	0.050	0.50	0	78.4	68	134				
Methyl tert-butyl ether [MTBE]	0.43	0.10	0.50	0	85.9	73	125				
n-Butylbenzene	0.48	0.050	0.50	0	96.6	70	128				
n-Propylbenzene	0.45	0.050	0.50	0	89.6	73	125				
Naphthalene	0.49	0.25	0.50	0	98.9	62	129				Z
p-Isopropyltoluene [p-Cymene]	0.38	0.050	0.50	0	77.0	73	127				
sec-Butylbenzene	0.43	0.050	0.50	0	86.1	73	126				
tert-Butylbenzene	0.40	0.050	0.50	0	80.4	73	125				
Toluene	0.46	0.050	0.50	0	92.7	77	121				
Vinyl acetate	0.44	1.2	0.50	0	88.6	50	151				J
Xylene (Total)	1.3	0.15	1.5	0	89.4	78	124				
Surr: 4-Bromofluorobenzene	2,900		3,000		96.6	79	119				
Surr: Dibromofluoromethane	2,900		3,000		96.7	78	119				
Surr: Toluene-d8	2,800		3,000		93.8	85	116				

Sample ID:	VOA11B MBLK2 061	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86770
Client ID:	PBS	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1683524

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.030	0.050									U
1,3,5-Trimethylbenzene	0.030	0.050									U
Benzene	0.030	0.050									U
Ethylbenzene	0.030	0.050									U
Isopropylbenzene	0.030	0.050									U
Methyl tert-butyl ether [MTBE]	0.030	0.10									U
n-Butylbenzene	0.030	0.050									U
n-Propylbenzene	0.030	0.050									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID:	VOA11B MBLK2 061	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86770
Client ID:	PBS	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1683524

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.030	0.25									ZU
p-Isopropyltoluene [p-Cymene]	0.030	0.050									U
sec-Butylbenzene	0.030	0.050									U
tert-Butylbenzene	0.030	0.050									U
Toluene	0.030	0.050									U
Vinyl acetate	0.030	1.2									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,300		2,500		91.7	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.0	78	119				
Surr: Toluene-d8	2,200		2,500		89.2	85	116				

Sample ID:	1606430-009CMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/18/2016	RunNo:	86770
Client ID:	AST35-SB04-03MS1	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683544

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0082	0.0011	0.011	0	72.2	75	123				Q
1,3,5-Trimethylbenzene	0.010	0.0011	0.011	0	89.5	73	124				
Benzene	0.010	0.0011	0.011	0	90.3	77	121				
Ethylbenzene	0.0098	0.0011	0.011	0	86.0	76	122				
Isopropylbenzene	0.0083	0.0011	0.011	0	73.5	68	134				
Methyl tert-butyl ether [MTBE]	0.0096	0.0023	0.011	0	84.7	73	125				
n-Butylbenzene	0.0098	0.0011	0.011	0	86.1	70	128				
n-Propylbenzene	0.0095	0.0011	0.011	0	84.0	73	125				
Naphthalene	0.0066	0.0057	0.011	0	58.5	62	129				ZQ
p-Isopropyltoluene [p-Cymene]	0.0080	0.0011	0.011	0	70.8	73	127				Q
sec-Butylbenzene	0.0089	0.0011	0.011	0	78.4	73	126				
tert-Butylbenzene	0.0086	0.0011	0.011	0	75.7	73	125				
Toluene	0.0094	0.0011	0.011	0	83.0	77	121				
Vinyl acetate	0.0087	0.028	0.011	0	76.4	50	151				J
Xylene (Total)	0.029	0.0034	0.034	0	86.5	78	124				
Surr: 4-Bromofluorobenzene	66		68.07		97.1	79	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID: **1606430-009CMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **AST35-SB04-03MS1** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683544**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	65		68.07		96.0	78	119				
Surr: Toluene-d8	64		68.07		94.0	85	116				

Sample ID: **1606430-009CMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **AST35-SB04-03SD1** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683545**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0085	0.0011	0.011	0	75.2	75	123	0.0082	4.07	25	
1,3,5-Trimethylbenzene	0.011	0.0011	0.011	0	93.2	73	124	0.010	4.05	25	
Benzene	0.011	0.0011	0.011	0	93.3	77	121	0.010	3.27	25	
Ethylbenzene	0.010	0.0011	0.011	0	89.6	76	122	0.0098	4.10	25	
Isopropylbenzene	0.0088	0.0011	0.011	0	77.8	68	134	0.0083	5.68	25	
Methyl tert-butyl ether [MTBE]	0.010	0.0023	0.011	0	88.6	73	125	0.0096	4.50	25	
n-Butylbenzene	0.0098	0.0011	0.011	0	86.1	70	128	0.0098	0	25	
n-Propylbenzene	0.0099	0.0011	0.011	0	87.4	73	125	0.0095	3.97	25	
Naphthalene	0.0080	0.0057	0.011	0	70.4	62	129	0.0066	18.5	25	Z
p-Isopropyltoluene [p-Cymene]	0.0084	0.0011	0.011	0	73.8	73	127	0.0080	4.15	25	
sec-Butylbenzene	0.0094	0.0011	0.011	0	82.7	73	126	0.0089	5.34	25	
tert-Butylbenzene	0.0089	0.0011	0.011	0	78.5	73	125	0.0086	3.63	25	
Toluene	0.0096	0.0011	0.011	0	85.0	77	121	0.0094	2.38	25	
Xylene (Total)	0.031	0.0034	0.034	0	90.2	78	124	0.029	4.19	25	
Surr: 4-Bromofluorobenzene	68		68.07		99.2	79	119		0	25	
Surr: Dibromofluoromethane	65		68.07		95.6	78	119		0	25	
Surr: Toluene-d8	65		68.07		95.2	85	116		0	25	

Sample ID: **1606467-004BMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683546**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0088	0.0012	0.012	0	74.0	75	123				Q
1,3,5-Trimethylbenzene	0.011	0.0012	0.012	0	89.5	73	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID: **1606467-004BMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683546**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.011	0.0012	0.012	0	92.9	77	121				
Ethylbenzene	0.011	0.0012	0.012	0	89.4	76	122				
Isopropylbenzene	0.0090	0.0012	0.012	0	75.7	68	134				
Methyl tert-butyl ether [MTBE]	0.010	0.0024	0.012	0	83.9	73	125				
n-Butylbenzene	0.010	0.0012	0.012	0	84.6	70	128				
n-Propylbenzene	0.010	0.0012	0.012	0	87.6	73	125				
Naphthalene	0.0075	0.0059	0.012	0	62.8	62	129				Z
p-Isopropyltoluene [p-Cymene]	0.0083	0.0012	0.012	0	70.3	73	127				Q
sec-Butylbenzene	0.0093	0.0012	0.012	0	78.1	73	126				
tert-Butylbenzene	0.0090	0.0012	0.012	0	75.7	73	125				
Toluene	0.010	0.0012	0.012	0	83.9	77	121				
Vinyl acetate	0.0026	0.030	0.012	0	21.5	50	151				JQ
Xylene (Total)	0.032	0.0036	0.036	0	89.0	78	124				
Surr: 4-Bromofluorobenzene	71		71.26		100	79	119				
Surr: Dibromofluoromethane	69		71.26		97.4	78	119				
Surr: Toluene-d8	68		71.26		94.9	85	116				

Sample ID: **1606467-004BMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **86770**

Client ID: **ZZZZZZ** Batch ID: **R86770** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1683547**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0085	0.0012	0.012	0	71.6	75	123	0.0088	3.30	25	Q
1,3,5-Trimethylbenzene	0.010	0.0012	0.012	0	88.2	73	124	0.011	1.46	25	
Benzene	0.011	0.0012	0.012	0	90.4	77	121	0.011	2.73	25	
Ethylbenzene	0.010	0.0012	0.012	0	85.5	76	122	0.011	4.46	25	
Isopropylbenzene	0.0087	0.0012	0.012	0	72.9	68	134	0.0090	3.77	25	
Methyl tert-butyl ether [MTBE]	0.0098	0.0024	0.012	0	82.3	73	125	0.010	1.93	25	
n-Butylbenzene	0.0099	0.0012	0.012	0	83.6	70	128	0.010	1.19	25	
n-Propylbenzene	0.010	0.0012	0.012	0	84.8	73	125	0.010	3.25	25	
Naphthalene	0.0070	0.0059	0.012	0	58.9	62	129	0.0075	6.41	25	ZQ
p-Isopropyltoluene [p-Cymene]	0.0083	0.0012	0.012	0	69.5	73	127	0.0083	1.14	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID:	1606467-004BMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/18/2016	RunNo:	86770
Client ID:	ZZZZZZ	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683547

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
sec-Butylbenzene	0.0093	0.0012	0.012	0	78.4	73	126	0.0093	0.383	25	
tert-Butylbenzene	0.0089	0.0012	0.012	0	74.6	73	125	0.0090	1.46	25	
Toluene	0.0095	0.0012	0.012	0	80.4	77	121	0.010	4.26	25	
Vinyl acetate	0.0025	0.030	0.012	0	21.1	50	151	0.0026	1.88	25	JQ
Xylene (Total)	0.030	0.0036	0.036	0	85.1	78	124	0.032	4.48	25	
Surr: 4-Bromofluorobenzene	71		71.26		99.2	79	119		0	25	
Surr: Dibromofluoromethane	71		71.26		99.0	78	119		0	25	
Surr: Toluene-d8	67		71.26		94.4	85	116		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606430

Date Reported: 8/29/2016
Revision v2

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606430

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/2/16 -05
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1 AST35-SB01	04	05	N	1	AST35-SB01-05	6/2/16	0945	SO	5	026			4	1								cooler 026
2 ↓	04	05	FD	1	AST35-SB01-05DUP		0945	SO	5	026			4	1								
3 ↓	05	06	N	1	AST35-SB01-06		0950	SO	5				4	1								
4 Field QC	—	—	TB	1	TB-SO-060216-01		0800	SO	4		4											
5 AST35-SB02	01	02	N	1	AST35-SB02-02		1010	SO	5				4	1								Time: 1010
6 ↓	02	03	N	1	AST35-SB02-03		1015	SO	5				4	1								
7 AST35-SB03	00	01	N	1	AST35-SB03-01		0910	SS	5				4	1								
8 ↓	01	02	N	1	AST35-SB03-02		0915	SO	5				4	1								
9 AST35-SB04	02	03	N	1	AST35-SB04-03		0840	SO	5				4	1								
9 ↓	02	03	MS	1	AST35-SB04-03MS		0840	SO	5				4	1								
9 ↓	02	03	SD	1	AST35-SB04-03MSD		0840	SO	5				4	1								
10 ↓	03	04	N	1	AST35-SB04-04		0855	SO	5				4	1								
11 FPH-SB01	00	01	N	1	FPH-SS01-01		1015	SS	5				4	1								

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/3/16	Time: 1300	1. Received By / Company: Transfer to FedEx	Date: 6/3/16	Time: 1300
2. Relinquished By / Company	Date	Time	2. Received By / Company: Heath Thurn / RTI	Date: 6/4/16	Time: 0946
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: AOCs - AST35, FPH

Shipment Method/Airbill No.: 8103 0202 5854

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

BIG GULP

1606430

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	06126-05
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
FPH-SB01	00	01	FD	1	FPH-SS01-01DUP	6/12/16	1015	SS	5	026			4	1								
FPH-SB02	00	01	N	1	FPH-SS02-01		0940	SS	5				4	1								
↓	01	02	N	1	FPH-SB02-02		0945	SO	5				4	1								
FPH-SB03	00	01	N	1	FPH-SS03-01		0930	SS	5				4	1								
↓	01	02	N	1	FPH-SB03-02		0935	SO	5				4	1								
FPH-SB04	03	04	N	1	FPH-SB04-04		0900	SO	5				4	1								
↓	05	06	N	1	FPH-SB04-05	↓	0850	SO	5	↓			4	1								

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/13/16	Time: 1300	1. Received By / Company: Transfer to FedEx	Date: 6/13/16	Time: 1300
2. Relinquished By / Company	Date	Time	2. Received By / Company: Victoria Clayton / RTI	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: AOCs - AST35, FPH (VOCs)

Shipment Method/Airbill No.: 8103 0202 5854

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

FedEx Express

Temp Blank 3.4°C

FedEx Tracking Number 8103 0202 5854

Form ID No. 0215

1 From

Date

Sender's Name Phone

Company

Address

Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City State ZIP

4 Express Package Service * To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight U.S. Service.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Priority shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Priority shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

Saturday Delivery

CUSTODY SEAL QEC
Quality Environmental Containers
800-255-3959 • 304-255-3908
DATE 06/13/16
SIGNATURE

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below

Sender Recipient Third Party Credit Card Cash/Check

fedex.com 1-800-463-3339

8103 0202 5854

FedEx
TRK# 0215 8103 0202 5854

TUE - 14 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 662995 13JUN16 WSNA 53902/3880/6486

Page 49 of 52

Align Open Ends at FedEx Pouch Here

1606430

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/2/16 – 06 (Batch May16)

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
AST35-SB01	04	05	N	1	AST35-SB01-05	6/2/16	0945	SO	1	027						1						cooler #027
↓	04	05	FD	1	AST35-SB01-05DUP		0945	SO	1	027						1						
↓	05	06	N	1	AST35-SB01-06		0950	SO	1							1						
AST35-SB02	01	02	N	1	AST35-SB02-02		1010	SO	1							1						
↓	02	03	N	1	AST35-SB02-03		1015	SO	1							1						
AST35-SB03	00	01	N	1	AST35-SS03-01		0910	SS	1							1						
↓	01	02	N	1	AST35-SB03-02		0915	SO	1							1						
AST35-SB04	02	03	N	1	AST35-SB04-03		0840	SO	1							1						
↓	02	03	MS	1	AST35-SB04-03MS		0840	SO	1							1						
↓	02	03	SD	1	AST35-SB04-03MSD		0840	SO	1							1						
↓	03	04	N	1	AST35-SB04-04		0855	SO	1							1						
FPH-SB01	00	01	N	1	FPH-SS01-01		1015	SS	1							1						
FPH-SB01	00	01	FD	1	FPH-SS01-01DUP	↓	1015	SS	1	↓						1						

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/3/16	Time: 1600	1. Received By / Company: Transfer to FedEx	Date: 6/3/16	Time: 1700
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: AST35 FPH (PAHs)

Shipment Method/Airbill No.: 8103 0202 5843

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

Black Ransom

1606430

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/2/16-06
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
FPH-SB02	00	01	N	1	FPH-SS02-01	6/12/16	0940	SS	1	027						1						
↓	01	02	N	1	FPH-SB02-02		0945	SO	1							1						
FPH-SB03	00	01	N	1	FPH-SS03-01		0930	SS	1							1						
↓	01	02	N	1	FPH-SB03-02		0935	SO	1							1						
FPH-SB04	03	04	N	1	FPH-SB04-04		0900	SO	1							1						
↓	04	05	N	1	FPH-SB04-05	↓	0850	SO	1	↓						1						

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date / Time
Amanda Martin - AECOM	6/13/16	1300	Transfer to FedEx	6/13/16 1300
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date / Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date / Time

Comments: AST35, FPH (PAHs)

Shipment Method/Airbill No.: 8103 0202 5843

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

Black Pens

Align Open End of FedEx Pouch Here

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Monday, July 11, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606431

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606431-001A	F100C-SB01-04		6/10/2016 2:53 PM	6/14/2016 9:41 AM	Soil
1606431-002A	F100C-SB01-05		6/10/2016 3:00 PM	6/14/2016 9:41 AM	Soil
1606431-003A	F100C-SB01-06		6/10/2016 3:05 PM	6/14/2016 9:41 AM	Soil
1606431-004A	F100C-SB01-07		6/10/2016 3:10 PM	6/14/2016 9:41 AM	Soil
1606431-005A	F100C-SB01-04 DUP		6/10/2016 2:53 PM	6/14/2016 9:41 AM	Soil
1606431-006A	F100C-SB02-04		6/10/2016 3:25 PM	6/14/2016 9:41 AM	Soil
1606431-007A	F100C-SB02-04 DUP		6/10/2016 3:25 PM	6/14/2016 9:41 AM	Soil
1606431-008A	F100C-SB02-05		6/10/2016 3:30 PM	6/14/2016 9:41 AM	Soil
1606431-009A	F100C-SB02-06		6/10/2016 3:35 PM	6/14/2016 9:41 AM	Soil
1606431-010A	F100C-SB02-07		6/10/2016 3:40 PM	6/14/2016 9:41 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C-STAR

RTI Laboratories - Analytical Report

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 2:53:00 PM
Project:	Camp Hero		
Lab ID:	1606431-001	**Matrix:**	Soil
Client Sample ID:	F100C-SB01-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	6.1		0.48	0.78	3.9	mg/Kg-dry	1	7/7/2016 1:30 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 3:00:00 PM
Project:	Camp Hero		
Lab ID:	1606431-002	**Matrix:**	Soil
Client Sample ID:	F100C-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	4.9		0.49	0.78	3.9	mg/Kg-dry	1	7/7/2016 1:31 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 3:05:00 PM
Project:	Camp Hero		
Lab ID:	1606431-003	**Matrix:**	Soil
Client Sample ID:	F100C-SB01-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	5.6		0.47	0.76	3.8	mg/Kg-dry	1	7/7/2016 1:33 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 3:10:00 PM
Project:	Camp Hero		
Lab ID:	1606431-004	**Matrix:**	Soil
Client Sample ID:	F100C-SB01-07		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	3.9		0.47	0.75	3.8	mg/Kg-dry	1	7/7/2016 1:34 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 2:53:00 PM
Project:	Camp Hero		
Lab ID:	1606431-005	**Matrix:**	Soil
Client Sample ID:	F100C-SB01-04 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	5.9		0.49	0.79	4.0	mg/Kg-dry	1	7/7/2016 1:35 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	18		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 3:25:00 PM
Project:	Camp Hero		
Lab ID:	1606431-006	**Matrix:**	Soil
Client Sample ID:	F100C-SB02-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	6.2		0.49	0.79	4.0	mg/Kg-dry	1	7/7/2016 1:37 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 3:25:00 PM
Project:	Camp Hero		
Lab ID:	1606431-007	**Matrix:**	Soil
Client Sample ID:	F100C-SB02-04 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	5.5		0.53	0.85	4.3	mg/Kg-dry	1	7/7/2016 1:38 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	22		1.0	1.0	1.0	wt%	1	6/15/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 3:30:00 PM
Project:	Camp Hero		
Lab ID:	1606431-008	**Matrix:**	Soil
Client Sample ID:	F100C-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	5.2		0.50	0.80	4.0	mg/Kg-dry	1	7/7/2016 1:39 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	18		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 3:35:00 PM
Project:	Camp Hero		
Lab ID:	1606431-009	**Matrix:**	Soil
Client Sample ID:	F100C-SB02-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	5.1		0.49	0.79	3.9	mg/Kg-dry	1	7/7/2016 1:41 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/10/2016 3:40:00 PM
Project:	Camp Hero		
Lab ID:	1606431-010	**Matrix:**	Soil
Client Sample ID:	F100C-SB02-07		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	5.1		0.48	0.78	3.9	mg/Kg-dry	1	7/7/2016 1:52 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - DATES REPORT

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606431-001A	F100C-SB01-04	6/10/2016 2:53 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:30 PM
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606431-002A	F100C-SB01-05	6/10/2016 3:00 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:31 PM
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606431-003A	F100C-SB01-06	6/10/2016 3:05 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:33 PM
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606431-004A	F100C-SB01-07	6/10/2016 3:10 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:34 PM
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606431-005A	F100C-SB01-04 DUP	6/10/2016 2:53 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:35 PM
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606431-006A	F100C-SB02-04	6/10/2016 3:25 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:37 PM
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606431-007A	F100C-SB02-04 DUP	6/10/2016 3:25 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:38 PM
				PMOIST-Percent Moisture		6/15/2016 12:20 PM	6/15/2016 12:20 PM
1606431-008A	F100C-SB02-05	6/10/2016 3:30 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:39 PM
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606431-009A	F100C-SB02-06	6/10/2016 3:35 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:41 PM
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606431-010A	F100C-SB02-07	6/10/2016 3:40 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:52 PM
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40277

Sample ID:	MB-40277	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87192
Client ID:	PBS	Batch ID:	40277	TestNo:	SW6010B	SW3050B		Analysis Date:	7/7/2016	SeqNo:	1692513

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	5.0	5.0									U

Sample ID:	LCS-40277	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87192
Client ID:	LCSS	Batch ID:	40277	TestNo:	SW6010B	SW3050B		Analysis Date:	7/7/2016	SeqNo:	1692514

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	25	5.0	25	0	101	81	112				

Sample ID:	1606467-004EMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87192
Client ID:	ZZZZZZ	Batch ID:	40277	TestNo:	SW6010B	SW3050B		Analysis Date:	7/7/2016	SeqNo:	1692516

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	25	3.9	20	4.3	104	81	112				

Sample ID:	1606467-004EMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87192
Client ID:	ZZZZZZ	Batch ID:	40277	TestNo:	SW6010B	SW3050B		Analysis Date:	7/7/2016	SeqNo:	1692517

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	22	3.9	19	4.3	92.5	81	112	25	11.0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86713**

Sample ID:	**1606430-009EDUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/15/2016**	RunNo:	**86713**	
Client ID:	**ZZZZZZ**	Batch ID:	**R86713**	TestNo:	**D2216**			Analysis Date:	**6/15/2016**	SeqNo:	**1682399**	
Analyte		Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture		12	1.0						11.86	4.66	20	

Sample ID:	**1606431-007ADUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/15/2016**	RunNo:	**86713**	
Client ID:	**F100C-SB02-04 DUPLR1**	Batch ID:	**R86713**	TestNo:	**D2216**			Analysis Date:	**6/15/2016**	SeqNo:	**1682416**	
Analyte		Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture		24	1.0						22.12	10.1	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86765**

Sample ID:	**1606431-008ADUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86765**
Client ID:	**F100C-SB02-05LR1**	Batch ID:	**R86765**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683325**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	17	1.0						17.53	3.99	20	

Sample ID:	**1606467-008BDUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86765**
Client ID:	**ZZZZZZ**	Batch ID:	**R86765**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683335**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	20	1.0						21.93	10.5	20	

RTI Laboratories - Definitions and Acronyms

WO#: 1606431

Date Reported: 7/11/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

160431

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061216-01
Batch May16

	Database Information				Other Sample Information						Analysis											
	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	F100C-SB01	00	04	N	1	F100C-SB01-04	6/10/16	1453	SO	1	022										1		
2	F100C-SB01	04	05	N	1	F100C-SB01-05		1500	SO	1											1		
3	F100C-SB01	05	06	N	1	F100C-SB01-06		1505	SO	1											1		
4	F100C-SB01	06	07	N	1	F100C-SB01-07		1510	SO	1											1		
5	F100C-SB01	00	04	FD	1	F100C-SB01-04DUP		1453	SO	1											1		
6	F100C-SB02	00	04	N	1	F100C-SB02-04		1525	SO	1											1		
7	F100C-SB02	00	04	FD	1	F100C-SB02-04DUP		1525	SO	1											1		time: 1525 *
8	F100C-SB02	04	05	N	1	F100C-SB02-05		1530	SO	1											1		
9	F100C-SB02	05	06	N	1	F100C-SB02-06		1535	SO	1											1		
10	F100C-SB02	06	07	N	1	F100C-SB02-07		1540	SO	1											1		
	BG03-SB01	00	01	N	1	BG03-SB01-01		1250	SS	2						1				1			3
	BG03-SB01	04	05	N	1	BG03-SB01-05		1255	SO	2						1				1			3 ***
	BG03-SB01	09	10	N	1	BG03-SB01-10		1300	SO	2						1				1			

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/13/16	Time 1300	1. Received By / Company	transfer to FedEx	Date 6/13/16	Time 1300
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	RTI	Date 6/14/16	Time 09:4

Comments: VOCs F100C and BG03

Shipment Method/Airbill No.: 8105 0025 5967

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLE

* Lid rec'd cracked - replaced @ Log-in

Paradox

*** ON WO 160 0425

CUSTODY SEAL
DATE 6/13/16
SIGNATURE

QEC
Quality Environmental Container
800-255-3950 • 304-255-3900

Cooler ID RT1-22 #032 Simple temp Blank 2.5 °C
Fed Ex #. 810302025595

CofC ID 061216-11

#022
Cooler ID. Parador 2
tracking # 810302025957
CofC ID 061216-01
Cooler Temp Blank 2.2°C

CUSTODY SEAL
DATE 6/13/16
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

#023 CofC ID. 061216-03
Cooler ID Big Blue 2
tracking # 810302025387
Cooler temp Blank 1.2°C

CUSTODY SEAL
DATE 6/13/16
SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Friday, August 26, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606465

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606465-001A	TB-GW-061316-01		6/13/2016 8:30 AM	6/15/2016 9:46 AM	Water
1606465-002A	FPH-SB02-GW		6/13/2016 4:00 PM	6/15/2016 9:46 AM	Groundwater
1606465-002B	FPH-SB02-GW		6/13/2016 4:00 PM	6/15/2016 9:46 AM	Groundwater
1606465-003A	FPH-SB03-GW		6/13/2016 3:00 PM	6/15/2016 9:46 AM	Groundwater
1606465-003B	FPH-SB03-GW		6/13/2016 3:00 PM	6/15/2016 9:46 AM	Groundwater
1606465-004A	FPH-SB04-GW		6/13/2016 1:45 PM	6/15/2016 9:46 AM	Groundwater
1606465-004B	FPH-SB04-GW		6/13/2016 1:45 PM	6/15/2016 9:46 AM	Groundwater
1606465-005A	FPH-SB04-GW DUP		6/13/2016 1:45 PM	6/15/2016 9:46 AM	Groundwater
1606465-005B	FPH-SB04-GW DUP		6/13/2016 1:45 PM	6/15/2016 9:46 AM	Groundwater
1606465-006A	TB-GW-061416-01		6/14/2016 8:00 AM	6/15/2016 9:46 AM	Water
1606465-007A	FPH-SB01-GW		6/14/2016 8:50 AM	6/15/2016 9:46 AM	Groundwater
1606465-007B	FPH-SB01-GW		6/14/2016 8:50 AM	6/15/2016 9:46 AM	Groundwater

RTI Laboratories - Case Narrative

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Volatile Organic Compounds - 8260C
Semi-Volatile Organic Compounds - 8270D-MOD
Semi-Volatile Organic Compounds - 8270D SIM

Samples 1606465-002B, -003B, -004B, and -005B were analyzed for SW-8270 SIM. However several analytes after multiple dilution runs were still over calibration. The PNA compounds were also reported in the SW_8270 analysis as requested.

Analytical Comments for Test SW_8260A, Analytical Run No 86938, Batch ID R86938:
Sample VOA11B CCV 062616: CCV results for 1,2-Dibromo-3-chloropropane, Acetone, Bromoform, and 2-Hexanone exceeded 20% control criteria.
Sample VOA11B LCS 06261: Recoveries for Bromoform, Chlorodibromomethane, cis-1,3-dichloropropene exceeded control limits.
Sample VOA11B LCSD 0626: Recoveries for 2-Hexanone, Bromoform, Chlorodibromomethane, cis-1,3-dichloropropene, Ethylbenzene, Styrene, and Xylene (total) exceeded control limits.
Sample VOA11B MBLK 0626: Surrogate recovery for Toluene-d8 exceeded control limits.
Sample 1606465-001A: Surrogate recovery for Toluene-d8 exceeded control limits.
Sample 1606465-003A: Surrogate recovery for 4-Bromofluorobenzene exceeded control limits.
Sample 1606465-004A: Surrogate recovery for Toluene-d8 exceeded control limits.
Sample 1606465-006A: Surrogate recovery for Toluene-d8 exceeded control limits.
Sample 1606465-007A: Surrogate recovery for Toluene-d8 exceeded control limits.
Sample VOA11B CCVE 062616: Ending CCV result for Trichlorofluoromethane exceeded control limits.

Analytical Comments for Test SW_8260A, Analytical Run No 86965, Batch ID R86965:
Sample VOA10 CCV 062716: 1,2-Dibromo-3-chloropropane and Chlorodibromomethane exceed the 20% control criteria.
Sample VOA10 LCSD 06271: RPD percentage for 1,2,4-Trichlorobenzene was above the control limit.
Sample 1606465-002A: Surrogate recovery for 4-Bromofluorobenzene exceeded control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86836, Batch ID 86836:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limits.
Sample CCV S8 062116: CCV results for 2,4-Dinitrophenol, Benzoic acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine and Pentachlorophenol exceeded control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86836, Batch ID 40190:
Sample LCS-40190: Recoveries for N-Nitrosodimethylamine, 4-Nitrophenol, Benzoic Acid and Phenol exceeded control limits. Surrogate recovery for Phenol-d5 exceeded control limits.
Sample LCSD-40190: Recoveries for N-Nitrosodimethylamine and 4-Nitrophenol. Surrogate recovery for Phenol-d5 exceeded control limits. RPD percentage for Benzoic Acid was above the control limit.
Sample MB-40190: Surrogate recovery for Phenol-d5 was outside the control limits.
Sample 1606465-002B: Surrogate recoveries for Phenol-d5, Nitrobenzene-d5, 2-Fluorobiphenyl and Terphenyl-d14 exceeded control limits. Evaluated as matrix interference.
Sample 1606465-003B: Surrogates recovery for Phenol-d5, Nitrobenzene-d5, 2-Fluorobiphenyl and Terphenyl-d14 exceeded control limits. Evaluated as matrix interference.
Sample 1606465-004B: Surrogates recovery for Phenol-d5 exceeded control limits.
Sample 1606465-005B: Surrogates recovery for Phenol-d5 exceeded control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86873, Batch ID 40190:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limits.
Sample CCV S8 062216: CCV results for 4-Nitrophenol, Benzoic acid, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl) ether, N-Nitrosodimethylamine and Bis(2-chloroisopropyl)ether exceeded control limits.
Sample 1606465-007B: Emulsion formed, low surrogates recovery. Surrogates recovery for Phenol-d5, Terphenyl-d14, Nitrobenzene-d5 and 2-Fluorobiphenyl exceeded control limits.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87471, Batch ID 40179:
Sample 1606422-002BMS: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits. Sample was not associated with work order.
Sample 1606422-002BMSD: RPD percentage for Benzo(b)fluoranthene was above the control limit. Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits. Sample was not associated with work order.

Sample 1606422-008BMS: Spike recovery for Benz(a)anthracene was outside the control limits. Sample was not associated with work order.
Sample 1606422-008BMSD: RPD percentage for Benzo(k)fluoranthene was outside the control limits. Sample was not associated with work order.
Sample 1606465-002: Surrogate recoveries for 2-Fluorobiphenyl and Nitrobenzene-d5 were outside control criteria.
Sample 1606465-003: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside control criteria.
Sample 1606465-004: Surrogate recoveries for 2-Fluorobiphenyl and Terphenyl-d14 were outside control criteria.
Sample 1606465-007: Surrogate recovery for 2-Fluorobiphenyl was outside control criteria.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87589, Batch ID 40179:
Sample 1606465-002B (200 Diln): 2-Methynaphthalene over calibration
Sample 1606465-003B (500 Diln): 1-Methynaphthalene and 2-Methynaphthalene over calibration
Sample 1606465-004B (500 Diln): 1-Methynaphthalene and 2-Methynaphthalene over calibration
Sample 1606465-005B (100 Diln): 2-Methynaphthalene over calibration

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87701, Batch ID 40179:
Sample LCS-40179: Recovery for 2-Methylnaphthalene was outside control criteria. Surrogate recovery for 2-Fluorobiphenyl was outside control criteria

RTI Laboratories - Analytical Report

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 8:30:00 AM
Project:	Camp Hero		
Lab ID:	1606465-001	**Matrix:**	Water
Client Sample ID:	TB-GW-061316-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/26/2016 7:47 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/26/2016 7:47 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/26/2016 7:47 PM
2-Hexanone	1.0	UY Q	0.64	1.0	2.0	µg/L	1	6/26/2016 7:47 PM
Acetone	8.0	JY	0.56	0.60	10	µg/L	1	6/26/2016 7:47 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Bromoform	0.60	UY Q	0.25	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/26/2016 7:47 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Chloromethane	1.5		0.37	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Ethylbenzene	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Methylene chloride	0.62	J	0.27	0.60	5.0	µg/L	1	6/26/2016 7:47 PM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/26/2016 7:47 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/26/2016 7:47 PM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/26/2016 7:47 PM
Surr: 4-Bromofluorobenzene	89.8			85-114		%Rec	1	6/26/2016 7:47 PM
Surr: Dibromofluoromethane	96.1			80-119		%Rec	1	6/26/2016 7:47 PM
Surr: Toluene-d8	88.0	Q		89-112		%Rec	1	6/26/2016 7:47 PM

RTI Laboratories - Analytical Report

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 4:00:00 PM
Project:	Camp Hero		
Lab ID:	1606465-002	**Matrix:**	Groundwater
Client Sample ID:	FPH-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.48	U	0.25	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
1,2-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
1,3-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
1,4-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
1-Methylnaphthalene	81		0.22	0.43	0.58	µg/L	3	7/26/2016 11:25 AM
2,4,5-Trichlorophenol	0.48	U	0.25	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
2,4,6-Trichlorophenol	0.48	U	0.28	0.48	3.8	µg/L	1	6/21/2016 2:02 PM
2,4-Dichlorophenol	0.48	U	0.19	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
2,4-Dimethyl phenol	0.96	U	0.53	0.96	4.8	µg/L	1	6/21/2016 2:02 PM
2,4-Dinitrophenol	9.6	UY	5.5	9.6	24	µg/L	1	6/21/2016 2:02 PM
2,4-Dinitrotoluene	0.48	U	0.24	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
2,6-Dinitrotoluene	0.48	U	0.27	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
2-Chloronaphthalene	0.96	U	0.67	0.96	4.8	µg/L	1	6/21/2016 2:02 PM
2-Chlorophenol	0.48	U	0.18	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
2-Methylnaphthalene	130		0.19	0.43	0.58	µg/L	3	7/26/2016 11:25 AM
2-Methylphenol (o-Cresol)	0.48	U	0.17	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
2-Nitroaniline	0.48	U	0.23	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
2-Nitrophenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
3,3´-Dichlorobenzidine	9.6	U	5.3	9.6	19	µg/L	1	6/21/2016 2:02 PM
3-Nitroaniline	0.96	U	0.33	0.96	9.6	µg/L	1	6/21/2016 2:02 PM
3/4-Methylphenol [m/p-Cresol]	0.96	U	0.37	0.96	9.6	µg/L	1	6/21/2016 2:02 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.6	µg/L	1	6/21/2016 2:02 PM
4-Bromophenyl phenyl ether	2.4	U	0.97	2.4	4.8	µg/L	1	6/21/2016 2:02 PM
4-Chloro-3-methylphenol	0.48	U	0.24	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
4-Chloroaniline [p-Chloroaniline]	0.48	U	0.33	0.48	9.6	µg/L	1	6/21/2016 2:02 PM
4-Chlorophenyl phenyl ether	0.48	U	0.17	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
4-Nitroaniline	0.48	U	0.19	0.48	9.6	µg/L	1	6/21/2016 2:02 PM
4-Nitrophenol	9.6	U	4.4	9.6	24	µg/L	1	6/21/2016 2:02 PM
Acenaphthene	10		0.038	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Acenaphthylene	0.14	U	0.095	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Anthracene	1.5		0.088	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Benz(a)anthracene	0.14	U	0.016	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Benzo(a)pyrene	0.14	U	0.041	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Benzo(b)fluoranthene	0.14	U	0.055	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Benzo(g,h,i)perylene	0.14	U	0.034	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Benzo(k)fluoranthene	0.14	U	0.074	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Benzoic acid	9.6	UY Z	3.6	9.6	24	µg/L	1	6/21/2016 2:02 PM
Benzyl alcohol	0.48	U	0.38	0.48	24	µg/L	1	6/21/2016 2:02 PM
Bis(2-chloroethoxy) methane	0.48	U	0.29	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Bis(2-chloroethyl) ether	0.48	U	0.22	0.48	0.96	µg/L	1	6/21/2016 2:02 PM
Bis(2-chloroisopropyl)ether	0.48	UY Z	0.23	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Bis(2-ethylhexyl) phthalate	0.48	U	0.26	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Butyl benzyl phthalate	0.48	U	0.23	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Carbazole	1.8	J	0.092	0.48	4.8	µg/L	1	6/21/2016 2:02 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 4:00:00 PM
Project: Camp Hero
Lab ID: 1606465-002 **Matrix:** Groundwater
Client Sample ID: FPH-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Chrysene	0.14	U	0.021	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Di-n-butyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Di-n-octyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Dibenz(a,h)anthracene	0.14	U	0.027	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Dibenzofuran	0.48	U	0.18	0.48	3.8	µg/L	1	6/21/2016 2:02 PM
Diethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Dimethyl phthalate	0.48	U	0.17	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Fluoranthene	0.70		0.10	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Fluorene	11		0.082	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Hexachlorobenzene	0.48	U	0.23	0.48	0.96	µg/L	1	6/21/2016 2:02 PM
Hexachlorobutadiene	0.48	U	0.30	0.48	0.96	µg/L	1	6/21/2016 2:02 PM
Hexachloroethane	0.48	U	0.22	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Indeno(1,2,3-cd)pyrene	0.14	U	0.029	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Isophorone	0.96	U	0.93	0.96	4.8	µg/L	1	6/21/2016 2:02 PM
N-Nitrosodi-n-propylamine	0.48	U	0.31	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
N-Nitrosodimethylamine	0.48	UY	0.30	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
N-Nitrosodiphenylamine	0.48	U	0.15	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Naphthalene	44		0.027	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Nitrobenzene	0.48	U	0.25	0.48	2.9	µg/L	1	6/21/2016 2:02 PM
Pentachlorophenol	2.4	UY	1.6	2.4	4.8	µg/L	1	6/21/2016 2:02 PM
Phenanthrene	22		0.023	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Phenol	0.48	U	0.13	0.48	4.8	µg/L	1	6/21/2016 2:02 PM
Pyrene	1.4		0.090	0.14	0.19	µg/L	1	6/21/2016 2:02 PM
Surr: 2,4,6-Tribromophenol	65.4			43-140		%Rec	1	6/21/2016 2:02 PM
Surr: 2-Fluorobiphenyl	34.2	Q		44-119		%Rec	1	6/21/2016 2:02 PM
Surr: 2-Fluorophenol	20.6	J		19-119		%Rec	1	6/21/2016 2:02 PM
Surr: Nitrobenzene-d5	31.3	Q		44-120		%Rec	1	6/21/2016 2:02 PM
Surr: Phenol-d5	14.6	JQ		30-130		%Rec	1	6/21/2016 2:02 PM
Surr: Terphenyl-d14	38.4	Q		50-134		%Rec	1	6/21/2016 2:02 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	150		3.7	3.7	3.7	µg/L	200	6/29/2016 1:54 AM
2-Methylnaphthalene	210	J	3.7	3.7	3.7	µg/L	200	6/29/2016 1:54 AM
Acenaphthene	21		0.93	0.93	0.93	µg/L	50	6/29/2016 1:25 AM
Acenaphthylene	2.5		0.93	0.93	0.93	µg/L	50	6/29/2016 1:25 AM
Anthracene	3.8		0.93	0.93	0.93	µg/L	50	6/29/2016 1:25 AM
Benz(a)anthracene	0.075	Q	0.019	0.019	0.019	µg/L	1	6/23/2016 11:59 PM
Benzo(a)pyrene	0.019		0.019	0.019	0.019	µg/L	1	6/23/2016 11:59 PM
Benzo(b)fluoranthene	0.035		0.019	0.019	0.019	µg/L	1	6/23/2016 11:59 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 11:59 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 11:59 PM
Chrysene	0.070		0.019	0.019	0.019	µg/L	1	6/23/2016 11:59 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 11:59 PM
Fluoranthene	0.37		0.019	0.019	0.019	µg/L	1	6/23/2016 11:59 PM
Fluorene	17		0.93	0.93	0.93	µg/L	50	6/29/2016 1:25 AM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 11:59 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 4:00:00 PM
Project: Camp Hero
Lab ID: 1606465-002 **Matrix:** Groundwater
Client Sample ID: FPH-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Naphthalene	140		3.7	3.7	3.7	µg/L	200	6/29/2016 1:54 AM
Phenanthrene	38		0.93	0.93	0.93	µg/L	50	6/29/2016 1:25 AM
Pyrene	0.93	U	0.93	0.93	0.93	µg/L	50	6/29/2016 1:25 AM
Surr: 2-Fluorobiphenyl	281	JQ		53-106		%Rec	1	6/23/2016 11:59 PM
Surr: Nitrobenzene-d5	331	JQ		55-111		%Rec	1	6/23/2016 11:59 PM
Surr: Terphenyl-d14	116			58-132		%Rec	1	6/23/2016 11:59 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 5:51 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/27/2016 5:51 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 5:51 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/27/2016 5:51 PM
Acetone	14		0.56	0.60	10	µg/L	1	6/27/2016 5:51 PM
Benzene	1.1		0.38	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Carbon disulfide	0.77	J	0.54	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 5:51 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Ethylbenzene	18		0.43	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/27/2016 5:51 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/27/2016 5:51 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 5:51 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 5:51 PM

RTI Laboratories - Analytical Report

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 4:00:00 PM
Project:	Camp Hero		
Lab ID:	1606465-002	**Matrix:**	Groundwater
Client Sample ID:	FPH-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Xylene (total)	10		1.3	1.8	3.0	µg/L	1	6/27/2016 5:51 PM
Surr: 4-Bromofluorobenzene	124	Q		85-114		%Rec	1	6/27/2016 5:51 PM
Surr: Dibromofluoromethane	85.8			80-119		%Rec	1	6/27/2016 5:51 PM
Surr: Toluene-d8	95.3			89-112		%Rec	1	6/27/2016 5:51 PM

RTI Laboratories - Analytical Report

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 3:00:00 PM
Project: Camp Hero
Lab ID: 1606465-003 **Matrix:** Groundwater
Client Sample ID: FPH-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
1-Methylnaphthalene	440		0.71	1.4	1.9	µg/L	10	7/26/2016 11:53 AM
2,4,5-Trichlorophenol	0.47	U	0.25	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.8	µg/L	1	6/21/2016 2:26 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
2,4-Dimethyl phenol	0.94	U	0.52	0.94	4.7	µg/L	1	6/21/2016 2:26 PM
2,4-Dinitrophenol	9.4	UY	5.4	9.4	24	µg/L	1	6/21/2016 2:26 PM
2,4-Dinitrotoluene	0.47	U	0.24	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
2,6-Dinitrotoluene	0.47	U	0.27	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
2-Chloronaphthalene	0.94	U	0.65	0.94	4.7	µg/L	1	6/21/2016 2:26 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
2-Methylnaphthalene	450		0.61	1.4	1.9	µg/L	10	7/26/2016 11:53 AM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
2-Nitrophenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
3,3´-Dichlorobenzidine	9.4	U	5.2	9.4	19	µg/L	1	6/21/2016 2:26 PM
3-Nitroaniline	0.94	U	0.32	0.94	9.4	µg/L	1	6/21/2016 2:26 PM
3/4-Methylphenol [m/p-Cresol]	0.94	U	0.36	0.94	9.4	µg/L	1	6/21/2016 2:26 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.4	µg/L	1	6/21/2016 2:26 PM
4-Bromophenyl phenyl ether	2.4	U	0.95	2.4	4.7	µg/L	1	6/21/2016 2:26 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.4	µg/L	1	6/21/2016 2:26 PM
4-Chlorophenyl phenyl ether	0.47	U	0.17	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.4	µg/L	1	6/21/2016 2:26 PM
4-Nitrophenol	9.4	U	4.3	9.4	24	µg/L	1	6/21/2016 2:26 PM
Acenaphthene	0.14	U	0.038	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Acenaphthylene	0.14	U	0.093	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Anthracene	0.14	U	0.087	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Benz(a)anthracene	0.64		0.016	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Benzo(a)pyrene	0.26		0.040	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Benzo(b)fluoranthene	0.38		0.054	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Benzo(g,h,i)perylene	0.14	U	0.033	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Benzo(k)fluoranthene	0.12	J	0.073	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Benzoic acid	9.4	UYZ	3.5	9.4	24	µg/L	1	6/21/2016 2:26 PM
Benzyl alcohol	0.47	U	0.37	0.47	24	µg/L	1	6/21/2016 2:26 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.94	µg/L	1	6/21/2016 2:26 PM
Bis(2-chloroisopropyl)ether	0.47	UYZ	0.22	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Carbazole	0.47	U	0.091	0.47	4.7	µg/L	1	6/21/2016 2:26 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 3:00:00 PM
Project: Camp Hero
Lab ID: 1606465-003 **Matrix:** Groundwater
Client Sample ID: FPH-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Chrysene	0.68		0.020	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Dibenz(a,h)anthracene	0.14	U	0.027	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Dibenzofuran	0.47	U	0.18	0.47	3.8	µg/L	1	6/21/2016 2:26 PM
Diethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Fluoranthene	4.3		0.098	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Fluorene	0.14	U	0.080	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.94	µg/L	1	6/21/2016 2:26 PM
Hexachlorobutadiene	0.47	U	0.30	0.47	0.94	µg/L	1	6/21/2016 2:26 PM
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Indeno(1,2,3-cd)pyrene	0.14	U	0.028	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Isophorone	0.94	U	0.92	0.94	4.7	µg/L	1	6/21/2016 2:26 PM
N-Nitrosodi-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
N-Nitrosodimethylamine	0.47	UY	0.30	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
N-Nitrosodiphenylamine	0.47	U	0.15	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Naphthalene	130		0.27	1.4	1.9	µg/L	10	7/26/2016 11:53 AM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/21/2016 2:26 PM
Pentachlorophenol	2.4	UY	1.5	2.4	4.7	µg/L	1	6/21/2016 2:26 PM
Phenanthrene	130		0.22	1.4	1.9	µg/L	10	7/26/2016 11:53 AM
Phenol	0.47	U	0.13	0.47	4.7	µg/L	1	6/21/2016 2:26 PM
Pyrene	8.5		0.088	0.14	0.19	µg/L	1	6/21/2016 2:26 PM
Surr: 2,4,6-Tribromophenol	59.2			43-140		%Rec	1	6/21/2016 2:26 PM
Surr: 2-Fluorobiphenyl	43.3	Q		44-119		%Rec	1	6/21/2016 2:26 PM
Surr: 2-Fluorophenol	31.8	J		19-119		%Rec	1	6/21/2016 2:26 PM
Surr: Nitrobenzene-d5	41.6	Q		44-120		%Rec	1	6/21/2016 2:26 PM
Surr: Phenol-d5	22.7	JQ		30-130		%Rec	1	6/21/2016 2:26 PM
Surr: Terphenyl-d14	46.6	Q		50-134		%Rec	1	6/21/2016 2:26 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	660	J	9.5	9.5	9.5	µg/L	500	6/29/2016 2:52 AM
2-Methylnaphthalene	1,000	J	9.5	9.5	9.5	µg/L	500	6/29/2016 2:52 AM
Acenaphthene	39		0.95	0.95	0.95	µg/L	50	6/29/2016 2:23 AM
Acenaphthylene	14		0.95	0.95	0.95	µg/L	50	6/29/2016 2:23 AM
Anthracene	0.29	Q	0.019	0.019	0.019	µg/L	1	6/24/2016 12:27 AM
Benz(a)anthracene	0.95	U	0.95	0.95	0.95	µg/L	50	6/29/2016 2:23 AM
Benzo(a)pyrene	0.95	U	0.95	0.95	0.95	µg/L	50	6/29/2016 2:23 AM
Benzo(b)fluoranthene	0.052		0.019	0.019	0.019	µg/L	1	6/24/2016 12:27 AM
Benzo(g,h,i)perylene	0.95	U	0.95	0.95	0.95	µg/L	50	6/29/2016 2:23 AM
Benzo(k)fluoranthene	0.95	U	0.95	0.95	0.95	µg/L	50	6/29/2016 2:23 AM
Chrysene	0.53		0.019	0.019	0.019	µg/L	1	6/24/2016 12:27 AM
Dibenzo(a,h)anthracene	0.69		0.019	0.019	0.019	µg/L	1	6/24/2016 12:27 AM
Fluoranthene	4.5		0.95	0.95	0.95	µg/L	50	6/29/2016 2:23 AM
Fluorene	94		9.5	9.5	9.5	µg/L	500	6/29/2016 2:52 AM
Indeno(1,2,3-cd)pyrene	0.95	U	0.95	0.95	0.95	µg/L	50	6/29/2016 2:23 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 3:00:00 PM
Project: Camp Hero
Lab ID: 1606465-003 **Matrix:** Groundwater
Client Sample ID: FPH-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Naphthalene	260		9.5	9.5	9.5	µg/L	500	6/29/2016 2:52 AM
Phenanthrene	200		9.5	9.5	9.5	µg/L	500	6/29/2016 2:52 AM
Pyrene	7.3		0.95	0.95	0.95	µg/L	50	6/29/2016 2:23 AM
Surr: 2-Fluorobiphenyl	653	JQ		53-106		%Rec	1	6/24/2016 12:27 AM
Surr: Nitrobenzene-d5	180	Q		55-111		%Rec	1	6/24/2016 12:27 AM
Surr: Terphenyl-d14	14.8	Q		58-132		%Rec	1	6/24/2016 12:27 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/26/2016 10:17 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/26/2016 10:17 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/26/2016 10:17 PM
2-Hexanone	1.0	UY Q	0.64	1.0	2.0	µg/L	1	6/26/2016 10:17 PM
Acetone	7.9	JY	0.56	0.60	10	µg/L	1	6/26/2016 10:17 PM
Benzene	1.1		0.38	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Bromoform	0.60	UY Q	0.25	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Carbon disulfide	0.98	J	0.54	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/26/2016 10:17 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Chloromethane	1.2		0.37	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Ethylbenzene	31	Q	0.43	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Methylene chloride	0.40	J	0.27	0.60	5.0	µg/L	1	6/26/2016 10:17 PM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Toluene	0.61	J	0.50	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/26/2016 10:17 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 3:00:00 PM
Project:	Camp Hero		
Lab ID:	1606465-003	**Matrix:**	Groundwater
Client Sample ID:	FPH-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/26/2016 10:17 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/26/2016 10:17 PM
Xylene (total)	56	Q	1.3	1.8	3.0	µg/L	1	6/26/2016 10:17 PM
Surr: 4-Bromofluorobenzene	124	Q		85-114		%Rec	1	6/26/2016 10:17 PM
Surr: Dibromofluoromethane	91.7			80-119		%Rec	1	6/26/2016 10:17 PM
Surr: Toluene-d8	91.9			89-112		%Rec	1	6/26/2016 10:17 PM

RTI Laboratories - Analytical Report

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 1:45:00 PM
Project: Camp Hero
Lab ID: 1606465-004 **Matrix:** Groundwater
Client Sample ID: FPH-SB04-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
1-Methylnaphthalene	180		0.71	1.4	1.9	µg/L	10	7/26/2016 12:21 PM
2,4,5-Trichlorophenol	0.47	U	0.25	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.8	µg/L	1	6/21/2016 2:51 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
2,4-Dimethyl phenol	0.94	U	0.52	0.94	4.7	µg/L	1	6/21/2016 2:51 PM
2,4-Dinitrophenol	9.4	UY	5.4	9.4	24	µg/L	1	6/21/2016 2:51 PM
2,4-Dinitrotoluene	0.47	U	0.24	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
2,6-Dinitrotoluene	0.47	U	0.27	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
2-Chloronaphthalene	0.94	U	0.65	0.94	4.7	µg/L	1	6/21/2016 2:51 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
2-Methylnaphthalene	310		0.61	1.4	1.9	µg/L	10	7/26/2016 12:21 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
2-Nitrophenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
3,3´-Dichlorobenzidine	9.4	U	5.2	9.4	19	µg/L	1	6/21/2016 2:51 PM
3-Nitroaniline	0.94	U	0.32	0.94	9.4	µg/L	1	6/21/2016 2:51 PM
3/4-Methylphenol [m/p-Cresol]	0.94	U	0.36	0.94	9.4	µg/L	1	6/21/2016 2:51 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.4	µg/L	1	6/21/2016 2:51 PM
4-Bromophenyl phenyl ether	2.4	U	0.95	2.4	4.7	µg/L	1	6/21/2016 2:51 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.4	µg/L	1	6/21/2016 2:51 PM
4-Chlorophenyl phenyl ether	0.47	U	0.17	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.4	µg/L	1	6/21/2016 2:51 PM
4-Nitrophenol	9.4	U	4.3	9.4	24	µg/L	1	6/21/2016 2:51 PM
Acenaphthene	14		0.038	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Acenaphthylene	0.14	U	0.093	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Anthracene	0.14	U	0.087	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Benz(a)anthracene	0.23		0.016	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Benzo(a)pyrene	0.14	U	0.040	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Benzo(b)fluoranthene	0.14	U	0.054	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Benzo(g,h,i)perylene	0.14	U	0.033	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Benzo(k)fluoranthene	0.14	U	0.073	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Benzoic acid	9.4	UYZ	3.5	9.4	24	µg/L	1	6/21/2016 2:51 PM
Benzyl alcohol	0.47	U	0.37	0.47	24	µg/L	1	6/21/2016 2:51 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.94	µg/L	1	6/21/2016 2:51 PM
Bis(2-chloroisopropyl)ether	0.47	UYZ	0.22	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Carbazole	0.47	U	0.091	0.47	4.7	µg/L	1	6/21/2016 2:51 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 1:45:00 PM
Project: Camp Hero
Lab ID: 1606465-004 **Matrix:** Groundwater
Client Sample ID: FPH-SB04-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Chrysene	0.11	J	0.020	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Dibenz(a,h)anthracene	0.14	U	0.027	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Dibenzofuran	9.5		0.18	0.47	3.8	µg/L	1	6/21/2016 2:51 PM
Diethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Fluoranthene	1.0		0.098	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Fluorene	19		0.080	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.94	µg/L	1	6/21/2016 2:51 PM
Hexachlorobutadiene	0.47	U	0.30	0.47	0.94	µg/L	1	6/21/2016 2:51 PM
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Indeno(1,2,3-cd)pyrene	0.14	U	0.028	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Isophorone	0.94	U	0.92	0.94	4.7	µg/L	1	6/21/2016 2:51 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
N-Nitrosodimethylamine	0.47	UY	0.30	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
N-Nitrosodiphenylamine	0.47	U	0.15	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Naphthalene	92		0.27	1.4	1.9	µg/L	10	7/26/2016 12:21 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/21/2016 2:51 PM
Pentachlorophenol	2.4	UY	1.5	2.4	4.7	µg/L	1	6/21/2016 2:51 PM
Phenanthrene	38		0.022	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Phenol	0.47	U	0.13	0.47	4.7	µg/L	1	6/21/2016 2:51 PM
Pyrene	2.3		0.088	0.14	0.19	µg/L	1	6/21/2016 2:51 PM
Surr: 2,4,6-Tribromophenol	104			43-140		%Rec	1	6/21/2016 2:51 PM
Surr: 2-Fluorobiphenyl	64.0			44-119		%Rec	1	6/21/2016 2:51 PM
Surr: 2-Fluorophenol	30.8	J		19-119		%Rec	1	6/21/2016 2:51 PM
Surr: Nitrobenzene-d5	51.3			44-120		%Rec	1	6/21/2016 2:51 PM
Surr: Phenol-d5	21.6	JQ		30-130		%Rec	1	6/21/2016 2:51 PM
Surr: Terphenyl-d14	87.6			50-134		%Rec	1	6/21/2016 2:51 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	1,000	J	9.5	9.5	9.5	µg/L	500	6/29/2016 3:50 AM
2-Methylnaphthalene	1,800	J	9.5	9.5	9.5	µg/L	500	6/29/2016 3:50 AM
Acenaphthene	140		9.5	9.5	9.5	µg/L	500	6/29/2016 3:50 AM
Acenaphthylene	17		0.95	0.95	0.95	µg/L	50	6/29/2016 3:21 AM
Anthracene	20		0.95	0.95	0.95	µg/L	50	6/29/2016 3:21 AM
Benz(a)anthracene	0.95	U	0.95	0.95	0.95	µg/L	50	6/29/2016 3:21 AM
Benzo(a)pyrene	0.070		0.019	0.019	0.019	µg/L	1	6/24/2016 12:56 AM
Benzo(b)fluoranthene	0.28		0.019	0.019	0.019	µg/L	1	6/24/2016 12:56 AM
Benzo(g,h,i)perylene	0.038		0.019	0.019	0.019	µg/L	1	6/24/2016 12:56 AM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 12:56 AM
Chrysene	0.95	U	0.95	0.95	0.95	µg/L	50	6/29/2016 3:21 AM
Dibenzo(a,h)anthracene	0.021		0.019	0.019	0.019	µg/L	1	6/24/2016 12:56 AM
Fluoranthene	5.6		0.95	0.95	0.95	µg/L	50	6/29/2016 3:21 AM
Fluorene	150		9.5	9.5	9.5	µg/L	500	6/29/2016 3:50 AM
Indeno(1,2,3-cd)pyrene	0.036		0.019	0.019	0.019	µg/L	1	6/24/2016 12:56 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 1:45:00 PM
Project:	Camp Hero		
Lab ID:	1606465-004	**Matrix:**	Groundwater
Client Sample ID:	FPH-SB04-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Naphthalene	390		9.5	9.5	9.5	µg/L	500	6/29/2016 3:50 AM
Phenanthrene	360		9.5	9.5	9.5	µg/L	500	6/29/2016 3:50 AM
Pyrene	10		0.95	0.95	0.95	µg/L	50	6/29/2016 3:21 AM
Surr: 2-Fluorobiphenyl	27.6	Q		53-106		%Rec	1	6/24/2016 12:56 AM
Surr: Nitrobenzene-d5	61.6			55-111		%Rec	1	6/24/2016 12:56 AM
Surr: Terphenyl-d14	150	Q		58-132		%Rec	1	6/24/2016 12:56 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/26/2016 10:42 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/26/2016 10:42 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/26/2016 10:42 PM
2-Hexanone	1.0	UY Q	0.64	1.0	2.0	µg/L	1	6/26/2016 10:42 PM
Acetone	15	Y	0.56	0.60	10	µg/L	1	6/26/2016 10:42 PM
Benzene	0.49	J	0.38	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Bromoform	0.60	UY Q	0.25	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/26/2016 10:42 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Chloromethane	1.1		0.37	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Ethylbenzene	2.6	Q	0.43	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Methylene chloride	0.27	J	0.27	0.60	5.0	µg/L	1	6/26/2016 10:42 PM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/26/2016 10:42 PM

RTI Laboratories - Analytical Report

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 1:45:00 PM
Project:	Camp Hero		
Lab ID:	1606465-004	**Matrix:**	Groundwater
Client Sample ID:	FPH-SB04-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/26/2016 10:42 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/26/2016 10:42 PM
Xylene (total)	1.9	JQ	1.3	1.8	3.0	µg/L	1	6/26/2016 10:42 PM
Surr: 4-Bromofluorobenzene	96.3			85-114		%Rec	1	6/26/2016 10:42 PM
Surr: Dibromofluoromethane	87.9			80-119		%Rec	1	6/26/2016 10:42 PM
Surr: Toluene-d8	87.8	Q		89-112		%Rec	1	6/26/2016 10:42 PM

RTI Laboratories - Analytical Report

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 1:45:00 PM
Project: Camp Hero
Lab ID: 1606465-005 **Matrix:** Groundwater
Client Sample ID: FPH-SB04-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.48	U	0.24	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
1,2-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
1,3-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
1,4-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
1-Methylnaphthalene	110		1.4	2.9	3.8	µg/L	20	7/26/2016 12:49 PM
2,4,5-Trichlorophenol	0.48	U	0.25	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
2,4,6-Trichlorophenol	0.48	U	0.28	0.48	3.8	µg/L	1	6/21/2016 3:16 PM
2,4-Dichlorophenol	0.48	U	0.19	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
2,4-Dimethyl phenol	0.95	U	0.53	0.95	4.8	µg/L	1	6/21/2016 3:16 PM
2,4-Dinitrophenol	9.5	UY	5.4	9.5	24	µg/L	1	6/21/2016 3:16 PM
2,4-Dinitrotoluene	0.48	U	0.24	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
2,6-Dinitrotoluene	0.48	U	0.27	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
2-Chloronaphthalene	0.95	U	0.66	0.95	4.8	µg/L	1	6/21/2016 3:16 PM
2-Chlorophenol	0.48	U	0.18	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
2-Methylnaphthalene	190		1.2	2.9	3.8	µg/L	20	7/26/2016 12:49 PM
2-Methylphenol (o-Cresol)	0.48	U	0.17	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
2-Nitroaniline	0.48	U	0.23	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
2-Nitrophenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
3,3´-Dichlorobenzidine	9.5	U	5.3	9.5	19	µg/L	1	6/21/2016 3:16 PM
3-Nitroaniline	0.95	U	0.33	0.95	9.5	µg/L	1	6/21/2016 3:16 PM
3/4-Methylphenol [m/p-Cresol]	0.95	U	0.37	0.95	9.5	µg/L	1	6/21/2016 3:16 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.5	µg/L	1	6/21/2016 3:16 PM
4-Bromophenyl phenyl ether	2.4	U	0.96	2.4	4.8	µg/L	1	6/21/2016 3:16 PM
4-Chloro-3-methylphenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
4-Chloroaniline [p-Chloroaniline]	0.48	U	0.33	0.48	9.5	µg/L	1	6/21/2016 3:16 PM
4-Chlorophenyl phenyl ether	0.48	U	0.17	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
4-Nitroaniline	0.48	U	0.19	0.48	9.5	µg/L	1	6/21/2016 3:16 PM
4-Nitrophenol	9.5	U	4.4	9.5	24	µg/L	1	6/21/2016 3:16 PM
Acenaphthene	9.2		0.038	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Acenaphthylene	0.14	U	0.094	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Anthracene	0.14	U	0.088	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Benz(a)anthracene	0.14	U	0.016	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Benzo(a)pyrene	0.14	U	0.040	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Benzo(b)fluoranthene	0.14	U	0.054	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Benzo(g,h,i)perylene	0.14	U	0.033	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Benzo(k)fluoranthene	0.14	U	0.073	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Benzoic acid	9.5	UYZ	3.5	9.5	24	µg/L	1	6/21/2016 3:16 PM
Benzyl alcohol	0.48	U	0.37	0.48	24	µg/L	1	6/21/2016 3:16 PM
Bis(2-chloroethoxy) methane	0.48	U	0.29	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Bis(2-chloroethyl) ether	0.48	U	0.22	0.48	0.95	µg/L	1	6/21/2016 3:16 PM
Bis(2-chloroisopropyl)ether	0.48	UYZ	0.22	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Bis(2-ethylhexyl) phthalate	0.48	U	0.25	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Butyl benzyl phthalate	0.48	U	0.23	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Carbazole	0.48	U	0.091	0.48	4.8	µg/L	1	6/21/2016 3:16 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 1:45:00 PM
Project: Camp Hero
Lab ID: 1606465-005 **Matrix:** Groundwater
Client Sample ID: FPH-SB04-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Chrysene	0.14	U	0.021	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Di-n-butyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Di-n-octyl phthalate	0.48	U	0.18	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Dibenz(a,h)anthracene	0.14	U	0.027	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Dibenzofuran	0.48	U	0.18	0.48	3.8	µg/L	1	6/21/2016 3:16 PM
Diethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Dimethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Fluoranthene	0.58		0.099	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Fluorene	11		0.081	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Hexachlorobenzene	0.48	U	0.22	0.48	0.95	µg/L	1	6/21/2016 3:16 PM
Hexachlorobutadiene	0.48	U	0.30	0.48	0.95	µg/L	1	6/21/2016 3:16 PM
Hexachloroethane	0.48	U	0.22	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Indeno(1,2,3-cd)pyrene	0.14	U	0.028	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/21/2016 3:16 PM
N-Nitroso-di-n-propylamine	0.48	U	0.30	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
N-Nitrosodimethylamine	0.48	UY	0.30	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
N-Nitrosodiphenylamine	0.48	U	0.15	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Naphthalene	43		0.027	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Nitrobenzene	0.48	U	0.25	0.48	2.9	µg/L	1	6/21/2016 3:16 PM
Pentachlorophenol	2.4	UY	1.6	2.4	4.8	µg/L	1	6/21/2016 3:16 PM
Phenanthrene	24		0.023	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Phenol	0.48	U	0.13	0.48	4.8	µg/L	1	6/21/2016 3:16 PM
Pyrene	0.96		0.089	0.14	0.19	µg/L	1	6/21/2016 3:16 PM
Surr: 2,4,6-Tribromophenol	108			43-140		%Rec	1	6/21/2016 3:16 PM
Surr: 2-Fluorobiphenyl	62.6			44-119		%Rec	1	6/21/2016 3:16 PM
Surr: 2-Fluorophenol	32.5	J		19-119		%Rec	1	6/21/2016 3:16 PM
Surr: Nitrobenzene-d5	59.6			44-120		%Rec	1	6/21/2016 3:16 PM
Surr: Phenol-d5	21.4	JQ		30-130		%Rec	1	6/21/2016 3:16 PM
Surr: Terphenyl-d14	87.0			50-134		%Rec	1	6/21/2016 3:16 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	83		1.9	1.9	1.9	µg/L	100	6/29/2016 4:19 AM
2-Methylnaphthalene	140	J	1.9	1.9	1.9	µg/L	100	6/29/2016 4:19 AM
Acenaphthene	7.5		1.9	1.9	1.9	µg/L	100	6/29/2016 4:19 AM
Acenaphthylene	0.45		0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Anthracene	0.72	Q	0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Benz(a)anthracene	0.13	Q	0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Benzo(a)pyrene	0.029		0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Benzo(b)fluoranthene	0.048		0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Benzo(k)fluoranthene	0.028		0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Chrysene	0.052		0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Fluoranthene	0.25		0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Fluorene	6.8		1.9	1.9	1.9	µg/L	100	6/29/2016 4:19 AM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 1:45:00 PM
Project: Camp Hero
Lab ID: 1606465-005 **Matrix:** Groundwater
Client Sample ID: FPH-SB04-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Naphthalene	62		1.9	1.9	1.9	µg/L	100	6/29/2016 4:19 AM
Phenanthrene	12		1.9	1.9	1.9	µg/L	100	6/29/2016 4:19 AM
Pyrene	0.44	Q	0.019	0.019	0.019	µg/L	1	6/24/2016 1:25 AM
Surr: 2-Fluorobiphenyl	74.1			53-106		%Rec	1	6/24/2016 1:25 AM
Surr: Nitrobenzene-d5	99.7			55-111		%Rec	1	6/24/2016 1:25 AM
Surr: Terphenyl-d14	125			58-132		%Rec	1	6/24/2016 1:25 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/26/2016 11:07 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/26/2016 11:07 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
2-Butanone [MEK]	4.7	J	2.3	5.0	10	µg/L	1	6/26/2016 11:07 PM
2-Hexanone	1.0	UY Q	0.64	1.0	2.0	µg/L	1	6/26/2016 11:07 PM
Acetone	10	Y	0.56	0.60	10	µg/L	1	6/26/2016 11:07 PM
Benzene	1.6		0.38	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Bromoform	0.60	UY Q	0.25	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/26/2016 11:07 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Chloromethane	1.1		0.37	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Ethylbenzene	18	Q	0.43	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Methylene chloride	0.28	J	0.27	0.60	5.0	µg/L	1	6/26/2016 11:07 PM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/26/2016 11:07 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 1:45:00 PM
Project:	Camp Hero		
Lab ID:	1606465-005	**Matrix:**	Groundwater
Client Sample ID:	FPH-SB04-GW DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/26/2016 11:07 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/26/2016 11:07 PM
Xylene (total)	17	Q	1.3	1.8	3.0	µg/L	1	6/26/2016 11:07 PM
Surr: 4-Bromofluorobenzene	96.9			85-114		%Rec	1	6/26/2016 11:07 PM
Surr: Dibromofluoromethane	86.2			80-119		%Rec	1	6/26/2016 11:07 PM
Surr: Toluene-d8	90.5			89-112		%Rec	1	6/26/2016 11:07 PM

RTI Laboratories - Analytical Report

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606465-006	**Matrix:**	Water
Client Sample ID:	TB-GW-061416-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/26/2016 11:32 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/26/2016 11:32 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/26/2016 11:32 PM
2-Hexanone	1.0	UY Q	0.64	1.0	2.0	µg/L	1	6/26/2016 11:32 PM
Acetone	4.9	JY	0.56	0.60	10	µg/L	1	6/26/2016 11:32 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Bromoform	0.60	UY Q	0.25	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/26/2016 11:32 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Chloromethane	1.2		0.37	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Ethylbenzene	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Methylene chloride	0.52	J	0.27	0.60	5.0	µg/L	1	6/26/2016 11:32 PM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/26/2016 11:32 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/26/2016 11:32 PM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/26/2016 11:32 PM
Surr: 4-Bromofluorobenzene	95.5			85-114		%Rec	1	6/26/2016 11:32 PM
Surr: Dibromofluoromethane	86.1			80-119		%Rec	1	6/26/2016 11:32 PM
Surr: Toluene-d8	88.9	Q		89-112		%Rec	1	6/26/2016 11:32 PM

RTI Laboratories - Analytical Report

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 8:50:00 AM
Project: Camp Hero
Lab ID: 1606465-007 **Matrix:** Groundwater
Client Sample ID: FPH-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.95	U	0.86	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
1,2-Dichlorobenzene	0.95	U	0.88	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
1,3-Dichlorobenzene	0.95	U	0.72	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
1,4-Dichlorobenzene	2.4	U	0.99	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
2,4,6-Trichlorophenol	0.95	U	0.91	0.95	3.8	µg/L	1	6/22/2016 4:20 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
2,4-Dinitrophenol	9.5	U	4.8	9.5	24	µg/L	1	6/22/2016 4:20 PM
2,4-Dinitrotoluene	0.95	U	0.57	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
2,6-Dinitrotoluene	0.95	U	0.81	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
2-Chloronaphthalene	0.95	U	0.84	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
2-Chlorophenol	0.95	U	0.83	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
2-Methylphenol (o-Cresol)	0.95	U	0.95	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
2-Nitroaniline	0.95	U	0.84	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/22/2016 4:20 PM
3-Nitroaniline	0.95	U	0.79	0.95	9.5	µg/L	1	6/22/2016 4:20 PM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.7	4.8	9.5	µg/L	1	6/22/2016 4:20 PM
4,6-Dinitro-2-methylphenol	0.95	U	0.85	0.95	9.5	µg/L	1	6/22/2016 4:20 PM
4-Bromophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
4-Chloroaniline [p-Chloroaniline]	0.95	U	0.77	0.95	9.5	µg/L	1	6/22/2016 4:20 PM
4-Chlorophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.5	µg/L	1	6/22/2016 4:20 PM
4-Nitrophenol	2.4	UY	1.3	2.4	24	µg/L	1	6/22/2016 4:20 PM
Benzoic acid	16	JYZ	1.9	2.4	24	µg/L	1	6/22/2016 4:20 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/22/2016 4:20 PM
Bis(2-chloroethoxy) methane	2.4	UY	1.0	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
Bis(2-chloroethyl) ether	2.4	UY	0.98	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
Bis(2-chloroisopropyl)ether	2.4	UYZ	1.1	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
Bis(2-ethylhexyl) phthalate	0.95	U	0.67	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Butyl benzyl phthalate	2.4	U	0.98	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
Carbazole	0.95	U	0.58	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Di-n-butyl phthalate	0.95	U	0.55	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	6/22/2016 4:20 PM
Dibenzofuran	0.95	U	0.72	0.95	3.8	µg/L	1	6/22/2016 4:20 PM
Diethyl phthalate	0.95	U	0.59	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Dimethyl phthalate	0.95	U	0.68	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Hexachlorobenzene	0.95	U	0.58	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Hexachlorobutadiene	0.95	U	0.81	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Hexachloroethane	0.95	U	0.70	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
N-Nitrosodi-n-propylamine	2.4	U	1.1	2.4	4.8	µg/L	1	6/22/2016 4:20 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 8:50:00 AM
Project: Camp Hero
Lab ID: 1606465-007 **Matrix:** Groundwater
Client Sample ID: FPH-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
N-Nitrosodimethylamine	0.95	UY	0.60	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
N-Nitrosodiphenylamine	0.95	U	0.63	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/22/2016 4:20 PM
Pentachlorophenol	0.95	U	0.88	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Phenol	0.95	U	0.57	0.95	4.8	µg/L	1	6/22/2016 4:20 PM
Surr: 2,4,6-Tribromophenol	48.0			43-140		%Rec	1	6/22/2016 4:20 PM
Surr: 2-Fluorobiphenyl	38.4	Q		44-119		%Rec	1	6/22/2016 4:20 PM
Surr: 2-Fluorophenol	36.0			19-119		%Rec	1	6/22/2016 4:20 PM
Surr: Nitrobenzene-d5	35.0	Q		44-120		%Rec	1	6/22/2016 4:20 PM
Surr: Phenol-d5	27.4	Q		30-130		%Rec	1	6/22/2016 4:20 PM
Surr: Terphenyl-d14	27.1	Q		50-134		%Rec	1	6/22/2016 4:20 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.55	Q	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
2-Methylnaphthalene	0.35	Q	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Acenaphthene	3.8		0.096	0.096	0.096	µg/L	5	6/29/2016 4:48 AM
Acenaphthylene	0.078		0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Anthracene	0.029	Q	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Benz(a)anthracene	0.019	UQ	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Fluoranthene	0.021		0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Fluorene	2.0		0.096	0.096	0.096	µg/L	5	6/29/2016 4:48 AM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Naphthalene	0.40	Q	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Phenanthrene	0.082	Q	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Pyrene	0.019	UQ	0.019	0.019	0.019	µg/L	1	6/24/2016 1:53 AM
Surr: 2-Fluorobiphenyl	119	Q		53-106		%Rec	1	6/24/2016 1:53 AM
Surr: Nitrobenzene-d5	89.8			55-111		%Rec	1	6/24/2016 1:53 AM
Surr: Terphenyl-d14	105			58-132		%Rec	1	6/24/2016 1:53 AM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/26/2016 11:57 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/26/2016 11:57 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 11:57 PM

RTI Laboratories - Analytical Report

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 8:50:00 AM
Project: Camp Hero
Lab ID: 1606465-007 **Matrix:** Groundwater
Client Sample ID: FPH-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
2-Butanone [MEK]	9.3	J	2.3	5.0	10	µg/L	1	6/26/2016 11:57 PM
2-Hexanone	1.0	UY Q	0.64	1.0	2.0	µg/L	1	6/26/2016 11:57 PM
Acetone	9.2	JY	0.56	0.60	10	µg/L	1	6/26/2016 11:57 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Bromoform	0.60	UY Q	0.25	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Carbon disulfide	0.96	J	0.54	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/26/2016 11:57 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Chloromethane	1.0		0.37	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Ethylbenzene	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Methylene chloride	0.40	J	0.27	0.60	5.0	µg/L	1	6/26/2016 11:57 PM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/26/2016 11:57 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/26/2016 11:57 PM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/26/2016 11:57 PM
Surr: 4-Bromofluorobenzene	95.4			85-114		%Rec	1	6/26/2016 11:57 PM
Surr: Dibromofluoromethane	85.4			80-119		%Rec	1	6/26/2016 11:57 PM
Surr: Toluene-d8	88.7	Q		89-112		%Rec	1	6/26/2016 11:57 PM

RTI Laboratories - DATES REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606465-001A	TB-GW-061316-01	6/13/2016 8:30 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/26/2016 7:47 PM	6/26/2016 7:47 PM
1606465-002A	FPH-SB02-GW	6/13/2016 4:00 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/26/2016 9:52 PM	6/26/2016 9:52 PM
				SW_8260A-Volatile Organic Compounds		6/27/2016 5:51 PM	6/27/2016 5:51 PM
1606465-002B	FPH-SB02-GW	6/13/2016 4:00 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/23/2016 11:59 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/29/2016 1:25 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/29/2016 1:54 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 2:02 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	7/26/2016 11:25 AM
1606465-003A	FPH-SB03-GW	6/13/2016 3:00 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/26/2016 10:17 PM	6/26/2016 10:17 PM
1606465-003B	FPH-SB03-GW	6/13/2016 3:00 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/24/2016 12:27 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/29/2016 2:23 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/29/2016 2:52 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 2:26 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	7/26/2016 11:53 AM
1606465-004A	FPH-SB04-GW	6/13/2016 1:45 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/26/2016 10:42 PM	6/26/2016 10:42 PM
1606465-004B	FPH-SB04-GW	6/13/2016 1:45 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/24/2016 12:56 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/29/2016 3:21 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/29/2016 3:50 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 2:51 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	7/26/2016 12:21 PM
1606465-005A	FPH-SB04-GW DUP	6/13/2016 1:45 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/26/2016 11:07 PM	6/26/2016 11:07 PM
1606465-005B	FPH-SB04-GW DUP	6/13/2016 1:45 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/24/2016 1:25 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/29/2016 4:19 AM

RTI Laboratories - DATES REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606465-005B	FPH-SB04-GW DUP	6/13/2016 1:45 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 3:16 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	7/26/2016 12:49 PM
1606465-006A	TB-GW-061416-01	6/14/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/26/2016 11:32 PM	6/26/2016 11:32 PM
1606465-007A	FPH-SB01-GW	6/14/2016 8:50 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/26/2016 11:57 PM	6/26/2016 11:57 PM
1606465-007B	FPH-SB01-GW	6/14/2016 8:50 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/24/2016 1:53 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/16/2016 1:20 PM	6/29/2016 4:48 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 3:40 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/22/2016 4:20 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40179

Sample ID:	LCS-40179	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	LCSW	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698564

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.47	0.020	0.4000	0	117	41	115				Q
2-Methylnaphthalene	0.60	0.020	0.4000	0	150	39	114				Q
Acenaphthene	0.40	0.020	0.4000	0	101	48	114				
Acenaphthylene	0.38	0.020	0.4000	0	95.4	35	121				
Anthracene	0.49	0.020	0.4000	0	122	53	119				Q
Benz(a)anthracene	0.51	0.020	0.4000	0	128	59	120				Q
Benzo(a)pyrene	0.35	0.020	0.4000	0	87.8	53	120				
Benzo(b)fluoranthene	0.43	0.020	0.4000	0	108	53	126				
Benzo(g,h,i)perylene	0.44	0.020	0.4000	0	110	44	128				
Benzo(k)fluoranthene	0.30	0.020	0.4000	0	74.0	54	125				
Chrysene	0.36	0.020	0.4000	0	90.4	57	120				
Dibenzo(a,h)anthracene	0.45	0.020	0.4000	0	112	44	131				
Fluoranthene	0.47	0.020	0.4000	0	118	58	120				
Fluorene	0.49	0.020	0.4000	0	122	50	118				Q
Indeno(1,2,3-cd)pyrene	0.44	0.020	0.4000	0	110	48	130				
Naphthalene	0.46	0.020	0.4000	0	116	43	114				Q
Phenanthrene	0.57	0.020	0.4000	0	143	53	115				Q
Pyrene	0.50	0.020	0.4000	0	125	53	124				Q
Surr: 2-Fluorobiphenyl	0.68		0.5000		136	53	106				Q
Surr: Nitrobenzene-d5	0.47		0.5000		94.1	55	111				
Surr: Terphenyl-d14	0.61		0.5000		122	58	132				

Sample ID:	1606422-002BMS-1	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	ZZZZZZ	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.61	0.019	0.3810	0.2746	88.2	41	115				
2-Methylnaphthalene	0.91	0.019	0.3810	0.5037	106	39	114				
Acenaphthene	0.33	0.019	0.3810	0.02359	79.8	48	114				
Acenaphthylene	0.32	0.019	0.3810	0	83.2	35	121				
Anthracene	0.28	0.019	0.3810	0	73.5	53	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40179**

Sample ID:	1606422-002BMS-1	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	ZZZZZZ	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.42	0.019	0.3810	0	109	59	120				
Benzo(a)pyrene	0.26	0.019	0.3810	0	69.5	53	120				
Benzo(b)fluoranthene	0.36	0.019	0.3810	0	93.9	53	126				
Benzo(g,h,i)perylene	0.38	0.019	0.3810	0	99.5	44	128				
Benzo(k)fluoranthene	0.24	0.019	0.3810	0	64.1	54	125				
Chrysene	0.33	0.019	0.3810	0	85.8	57	120				
Dibenzo(a,h)anthracene	0.37	0.019	0.3810	0	98.0	44	131				
Fluoranthene	0.36	0.019	0.3810	0	93.5	58	120				
Fluorene	0.36	0.019	0.3810	0.01962	89.5	50	118				
Indeno(1,2,3-cd)pyrene	0.38	0.019	0.3810	0	99.9	48	130				
Naphthalene	0.49	0.019	0.3810	0.1921	79.3	43	114				
Phenanthrene	0.40	0.019	0.3810	0.02591	96.9	53	115				
Pyrene	0.38	0.019	0.3810	0	99.4	53	124				
Surr: 2-Fluorobiphenyl	0.66		0.4762		138	53	106				Q
Surr: Nitrobenzene-d5	0.55		0.4762		116	55	111				Q
Surr: Terphenyl-d14	0.70		0.4762		146	58	132				Q

Sample ID:	1606422-008BMS-1	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	ZZZZZZ	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698569

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.38	0.019	0.3883	0.05553	84.5	41	115				
2-Methylnaphthalene	0.46	0.019	0.3883	0.08661	96.6	39	114				
Acenaphthene	0.35	0.019	0.3883	0	90.8	48	114				
Acenaphthylene	0.35	0.019	0.3883	0	89.4	35	121				
Anthracene	0.35	0.019	0.3883	0	90.1	53	119				
Benz(a)anthracene	0.48	0.019	0.3883	0	123	59	120				Q
Benzo(a)pyrene	0.34	0.019	0.3883	0	86.6	53	120				
Benzo(b)fluoranthene	0.42	0.019	0.3883	0	109	53	126				
Benzo(g,h,i)perylene	0.43	0.019	0.3883	0	112	44	128				
Benzo(k)fluoranthene	0.39	0.019	0.3883	0	101	54	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40179**

Sample ID:	1606422-008BMS-1	Samp Type:	MS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	ZZZZZZ	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698569

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.36	0.019	0.3883	0	91.4	57	120				
Dibenzo(a,h)anthracene	0.44	0.019	0.3883	0	113	44	131				
Fluoranthene	0.39	0.019	0.3883	0	99.6	58	120				
Fluorene	0.39	0.019	0.3883	0.02125	95.0	50	118				
Indeno(1,2,3-cd)pyrene	0.43	0.019	0.3883	0	112	48	130				
Naphthalene	0.36	0.019	0.3883	0.07954	72.5	43	114				
Phenanthrene	0.46	0.019	0.3883	0.03642	108	53	115				
Pyrene	0.42	0.019	0.3883	0	108	53	124				
Surr: 2-Fluorobiphenyl	0.41		0.4854		85.2	53	106				
Surr: Nitrobenzene-d5	0.47		0.4854		96.5	55	111				
Surr: Terphenyl-d14	0.54		0.4854		112	58	132				

Sample ID:	1606422-008BMSD-1	Samp Type:	MSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	ZZZZZZ	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.34	0.019	0.3810	0.05553	74.7	41	115	0.3835	12.0	20	
2-Methylnaphthalene	0.40	0.019	0.3810	0.08661	81.6	39	114	0.4618	15.0	20	
Acenaphthene	0.35	0.019	0.3810	0	91.3	48	114	0.3527	1.42	20	
Acenaphthylene	0.34	0.019	0.3810	0	90.3	35	121	0.3473	0.952	20	
Anthracene	0.35	0.019	0.3810	0	91.6	53	119	0.3497	0.192	20	
Benz(a)anthracene	0.45	0.019	0.3810	0	118	59	120	0.4783	5.80	20	
Benzo(a)pyrene	0.32	0.019	0.3810	0	84.0	53	120	0.3364	5.00	20	
Benzo(b)fluoranthene	0.39	0.019	0.3810	0	103	53	126	0.4247	7.89	20	
Benzo(g,h,i)perylene	0.42	0.019	0.3810	0	110	44	128	0.4340	3.85	20	
Benzo(k)fluoranthene	0.28	0.019	0.3810	0	73.4	54	125	0.3917	33.3	20	R
Chrysene	0.34	0.019	0.3810	0	90.2	57	120	0.3551	3.30	20	
Dibenzo(a,h)anthracene	0.43	0.019	0.3810	0	112	44	131	0.4399	2.87	20	
Fluoranthene	0.38	0.019	0.3810	0	98.6	58	120	0.3869	2.91	20	
Fluorene	0.39	0.019	0.3810	0.02125	95.7	50	118	0.3902	1.08	20	
Indeno(1,2,3-cd)pyrene	0.42	0.019	0.3810	0	109	48	130	0.4333	3.92	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40179**

Sample ID:	1606422-008BMSD-1	Samp Type:	MSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	ZZZZZZ	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/23/2016	SeqNo:	1698570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.35	0.019	0.3810	0.07954	71.5	43	114	0.3611	2.58	20	
Phenanthrene	0.44	0.019	0.3810	0.03642	107	53	115	0.4567	3.06	20	
Pyrene	0.41	0.019	0.3810	0	109	53	124	0.4208	1.57	20	
Surr: 2-Fluorobiphenyl	0.40		0.4762		84.9	53	106		0	20	
Surr: Nitrobenzene-d5	0.46		0.4762		96.5	55	111		0	20	
Surr: Terphenyl-d14	0.52		0.4762		110	58	132		0	20	

Sample ID:	MB-40179	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/16/2016	RunNo:	87471
Client ID:	PBW	Batch ID:	40179	TestNo:	SW8270C	SW3510C		Analysis Date:	6/24/2016	SeqNo:	1700749

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									U
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.44		0.5000		88.1	53	106				
Surr: Nitrobenzene-d5	0.51		0.5000		101	55	111				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40179**

Sample ID:	**MB-40179**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/16/2016**	RunNo:	**87471**
Client ID:	**PBW**	Batch ID:	**40179**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/24/2016**	SeqNo:	**1700749**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Terphenyl-d14	0.56		0.5000		112	58	132				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685699

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	20	20									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylnaphthalene	1.0	1.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitrophenol	25	25									U
Acenaphthene	1.0	1.0									U
Acenaphthylene	1.0	1.0									U
Anthracene	1.0	1.0									U
Benz(a)anthracene	1.0	1.0									U
Benzo(a)pyrene	1.0	1.0									U
Benzo(b)fluoranthene	1.0	1.0									U
Benzo(g,h,i)perylene	1.0	1.0									U
Benzo(k)fluoranthene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685699

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	1.0	1.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Chrysene	1.0	1.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenz(a,h)anthracene	1.0	1.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Fluoranthene	1.0	1.0									U
Fluorene	1.0	1.0									U
Hexachlorobenzene	1.0	1.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Indeno(1,2,3-cd)pyrene	1.0	1.0									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Naphthalene	1.0	1.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenanthrene	1.0	1.0									U
Phenol	5.0	5.0									U
Pyrene	1.0	1.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	40	125				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	50	110				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86883**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685699**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorophenol	7.4		25.00		29.8	20	110				
Surr: Nitrobenzene-d5	11		25.00		45.5	40	110				
Surr: Phenol-d5	4.8		25.00		19.3	20	130				Q
Surr: Terphenyl-d14	24		25.00		94.3	50	135				

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86883**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685700**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	20	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	37	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitrophenol	23	25	50.00	0	46.9	30	150				J
Acenaphthene	12	1.0	20.00	0	59.9	47	122				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685700

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthylene	12	1.0	20.00	0	60.7	41	130				
Anthracene	14	1.0	20.00	0	71.8	57	123				
Benz(a)anthracene	17	1.0	20.00	0	83.3	58	125				
Benzo(a)pyrene	18	1.0	20.00	0	87.8	54	128				
Benzo(b)fluoranthene	19	1.0	20.00	0	93.2	53	131				
Benzo(g,h,i)perylene	18	1.0	20.00	0	89.3	50	134				
Benzo(k)fluoranthene	18	1.0	20.00	0	91.9	57	129				
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	1.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Chrysene	17	1.0	20.00	0	82.7	59	123				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Dibenz(a,h)anthracene	19	1.0	20.00	0	93.2	51	134				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Fluoranthene	17	1.0	20.00	0	86.9	57	128				
Fluorene	13	1.0	20.00	0	67.0	52	124				
Hexachlorobenzene	12	1.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Indeno(1,2,3-cd)pyrene	19	1.0	20.00	0	95.2	52	134				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitrosodi-n-propylamine	12	5.0	20.00	0	58.2	49	119				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	30	150				Y
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Naphthalene	9.5	1.0	20.00	0	47.6	40	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685700

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	38	138				Y
Phenanthrene	14	1.0	20.00	0	68.9	59	120				
Phenol	6.4	5.0	20.00	0	31.8	30	150				
Pyrene	18	1.0	20.00	0	87.8	57	126				
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	50	130				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685701

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	20	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	20	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	20	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	20	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	20	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	20	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	20	
2,4-Dinitrophenol	61	20	50.00	0	122	23	143	59.07	3.12	20	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	20	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	20	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	20	
2-Chlorophenol	14	5.0	20.00	0	67.8	37	117	11.51	16.4	20	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	20	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	20	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	20	J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685701

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	20	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	20	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	20	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	20	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	20	
4-Nitrophenol	23	25	50.00	0	46.6	30	150	23.46	0.684	20	J
Acenaphthene	13	1.0	20.00	0	63.3	47	122	11.98	5.44	20	
Acenaphthylene	13	1.0	20.00	0	64.8	41	130	12.14	6.46	20	
Anthracene	14	1.0	20.00	0	70.0	57	123	14.37	2.54	20	
Benz(a)anthracene	16	1.0	20.00	0	81.7	58	125	16.66	1.94	20	
Benzo(a)pyrene	17	1.0	20.00	0	85.1	54	128	17.56	3.12	20	
Benzo(b)fluoranthene	17	1.0	20.00	0	87.4	53	131	18.63	6.37	20	
Benzo(g,h,i)perylene	17	1.0	20.00	0	86.9	50	134	17.86	2.78	20	
Benzo(k)fluoranthene	19	1.0	20.00	0	93.5	57	129	18.37	1.73	20	
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	20	
Bis(2-chloroethyl) ether	12	1.0	20.00	0	58.2	43	118	10.45	10.8	20	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	20	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	20	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	20	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	20	
Chrysene	16	1.0	20.00	0	80.6	59	123	16.54	2.57	20	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	20	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	20	
Dibenz(a,h)anthracene	18	1.0	20.00	0	90.3	51	134	18.64	3.22	20	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	20	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	20	
Fluoranthene	17	1.0	20.00	0	85.2	57	128	17.37	1.98	20	
Fluorene	13	1.0	20.00	0	66.7	52	124	13.39	0.374	20	
Hexachlorobenzene	11	1.0	20.00	0	55.8	53	125	11.59	3.78	20	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	20	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID: **LCSD-40190** Samp Type: **LCSD** Test Code: **EPA_625** Units: **µg/L** Prep Date: **6/17/2016** RunNo: **86883**

Client ID: **LCSS02** Batch ID: **40190** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/21/2016** SeqNo: **1685701**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	20	
Indeno(1,2,3-cd)pyrene	19	1.0	20.00	0	92.6	52	134	19.04	2.82	20	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	20	
N-Nitrosodi-n-propylamine	13	5.0	20.00	0	64.2	49	119	11.64	9.88	20	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	30	150	6.020	15.9	20	Y
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	20	
Naphthalene	11	1.0	20.00	0	53.4	40	121	9.510	11.7	20	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	20	
Pentachlorophenol	27	5.0	20.00	0	133	38	138	25.65	3.52	20	Y
Phenanthrene	14	1.0	20.00	0	68.4	59	120	13.78	0.801	20	
Phenol	7.0	5.0	20.00	0	35.2	30	150	6.350	10.4	20	
Pyrene	17	1.0	20.00	0	86.7	57	126	17.55	1.20	20	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	20	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	20	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	20	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	20	
Surr: Phenol-d5	8.1		25.00		32.4	50	130		0	20	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	20	

Sample ID: **MB-40190** Samp Type: **MBLK** Test Code: **SW_8270A** Units: **µg/L** Prep Date: **6/17/2016** RunNo: **86884**

Client ID: **PBW** Batch ID: **40190** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/21/2016** SeqNo: **1685740**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685740

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylnaphthalene	1.0	1.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Acenaphthene	1.0	1.0									U
Acenaphthylene	1.0	1.0									U
Anthracene	1.0	1.0									U
Benz(a)anthracene	1.0	1.0									U
Benzo(a)pyrene	1.0	1.0									U
Benzo(b)fluoranthene	1.0	1.0									U
Benzo(g,h,i)perylene	1.0	1.0									U
Benzo(k)fluoranthene	1.0	1.0									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	1.0	1.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685740

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Chrysene	1.0	1.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenz(a,h)anthracene	1.0	1.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Fluoranthene	1.0	1.0									U
Fluorene	1.0	1.0									U
Hexachlorobenzene	1.0	1.0									U
Hexachlorobutadiene	1.0	1.0									U
Hexachloroethane	5.0	5.0									U
Indeno(1,2,3-cd)pyrene	1.0	1.0									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Naphthalene	1.0	1.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenanthrene	1.0	1.0									U
Phenol	5.0	5.0									U
Pyrene	1.0	1.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				J
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685740

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Phenol-d5	4.8		25.00		19.3	30	130				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685741

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylnaphthalene	10	1.0	20.00	0	50.2	40	121				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685741

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Acenaphthene	12	1.0	20.00	0	59.9	47	122				
Acenaphthylene	12	1.0	20.00	0	60.7	41	130				
Anthracene	14	1.0	20.00	0	71.8	57	123				
Benz(a)anthracene	17	1.0	20.00	0	83.3	58	125				
Benzo(a)pyrene	18	1.0	20.00	0	87.8	54	128				
Benzo(b)fluoranthene	19	1.0	20.00	0	93.2	53	131				
Benzo(g,h,i)perylene	18	1.0	20.00	0	89.3	50	134				
Benzo(k)fluoranthene	18	1.0	20.00	0	91.9	57	129				
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	1.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Chrysene	17	1.0	20.00	0	82.7	59	123				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Dibenz(a,h)anthracene	19	1.0	20.00	0	93.2	51	134				
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Fluoranthene	17	1.0	20.00	0	86.9	57	128				
Fluorene	13	1.0	20.00	0	67.0	52	124				
Hexachlorobenzene	12	1.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	1.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Indeno(1,2,3-cd)pyrene	19	1.0	20.00	0	95.2	52	134				
Isophorone	12	5.0	20.00	0	58.6	42	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685741

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodi-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Naphthalene	9.5	1.0	20.00	0	47.6	40	121				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenanthrene	14	1.0	20.00	0	68.9	59	120				
Phenol	6.4	5.0	20.00	0	31.8	50	130				Q
Pyrene	18	1.0	20.00	0	87.8	57	126				
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	30	130				J
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685742

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86884**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685742**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylnaphthalene	11	1.0	20.00	0	56.1	40	121	10.04	11.1	25	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Acenaphthene	13	1.0	20.00	0	63.3	47	122	11.98	5.44	25	
Acenaphthylene	13	1.0	20.00	0	64.8	41	130	12.14	6.46	25	
Anthracene	14	1.0	20.00	0	70.0	57	123	14.37	2.54	25	
Benz(a)anthracene	16	1.0	20.00	0	81.7	58	125	16.66	1.94	25	
Benzo(a)pyrene	17	1.0	20.00	0	85.1	54	128	17.56	3.12	25	
Benzo(b)fluoranthene	17	1.0	20.00	0	87.4	53	131	18.63	6.37	25	
Benzo(g,h,i)perylene	17	1.0	20.00	0	86.9	50	134	17.86	2.78	25	
Benzo(k)fluoranthene	19	1.0	20.00	0	93.5	57	129	18.37	1.73	25	
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	1.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Chrysene	16	1.0	20.00	0	80.6	59	123	16.54	2.57	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID: **LCSD-40190** Samp Type: **LCSD** Test Code: **SW_8270A** Units: **µg/L** Prep Date: **6/17/2016** RunNo: **86884**

Client ID: **LCSS02** Batch ID: **40190** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/21/2016** SeqNo: **1685742**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenz(a,h)anthracene	18	1.0	20.00	0	90.3	51	134	18.64	3.22	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Fluoranthene	17	1.0	20.00	0	85.2	57	128	17.37	1.98	25	
Fluorene	13	1.0	20.00	0	66.7	52	124	13.39	0.374	25	
Hexachlorobenzene	11	1.0	20.00	0	55.8	53	125	11.59	3.78	25	
Hexachlorobutadiene	7.0	1.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Indeno(1,2,3-cd)pyrene	19	1.0	20.00	0	92.6	52	134	19.04	2.82	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	
N-Nitrosodi-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	
Naphthalene	11	1.0	20.00	0	53.4	40	121	9.510	11.7	25	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenanthrene	14	1.0	20.00	0	68.4	59	120	13.78	0.801	25	
Phenol	7.0	5.0	20.00	0	35.2	50	130	6.350	10.4	25	Q
Pyrene	17	1.0	20.00	0	86.7	57	126	17.55	1.20	25	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	30	130		0	25	J
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684993**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684993

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	33	122				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684994

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684994

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Benzoic acid	17	25	40.00	0	42.6	50	130				JQYZ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	5.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684994

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	5.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitrosodi-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenol	6.4	5.0	20.00	0	31.8	34	121				Q
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	33	122				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684995

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684995**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Benzoic acid	32	25	40.00	0	80.1	50	130	17.03	61.2	25	RYZ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	5.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684995

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Hexachlorobenzene	11	5.0	20.00	0	55.8	53	125	11.59	3.78	25	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	
N-Nitrosodi-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenol	7.0	5.0	20.00	0	35.2	34	121	6.350	10.4	25	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	33	122		0	25	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

Sample ID:	MB-1-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-1-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	5.0	5.0									U
1-Methylnaphthalene	0.20	0.20									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylnaphthalene	0.20	0.20									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Acenaphthene	0.20	0.20									U
Acenaphthylene	0.20	0.20									U
Anthracene	0.20	0.20									U
Benz(a)anthracene	0.20	0.20									U
Benzo(a)pyrene	0.20	0.20									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-1-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	0.20	0.20									U
Benzo(g,h,i)perylene	0.20	0.20									U
Benzo(k)fluoranthene	0.20	0.20									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Chrysene	0.20	0.20									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenz(a,h)anthracene	0.20	0.20									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Fluoranthene	0.20	0.20									U
Fluorene	0.20	0.20									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Indeno(1,2,3-cd)pyrene	0.20	0.20									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Naphthalene	0.20	0.20									U
Nitrobenzene	3.0	3.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-1-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	5.0	5.0									UY
Phenanthrene	0.20	0.20									U
Phenol	5.0	5.0									U
Pyrene	0.20	0.20									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	33	122				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-1-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718225

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
1-Methylnaphthalene	10	0.20	20.00	0	52.2	41	119				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylnaphthalene	10	0.20	20.00	0	50.2	40	121				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-1-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718225**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Acenaphthene	12	0.20	20.00	0	59.9	47	122				
Acenaphthylene	12	0.20	20.00	0	60.7	41	130				
Anthracene	14	0.20	20.00	0	71.8	57	123				
Benz(a)anthracene	17	0.20	20.00	0	83.3	58	125				
Benzo(a)pyrene	18	0.20	20.00	0	87.8	54	128				
Benzo(b)fluoranthene	19	0.20	20.00	0	93.2	53	131				
Benzo(g,h,i)perylene	18	0.20	20.00	0	89.3	50	134				
Benzo(k)fluoranthene	18	0.20	20.00	0	91.9	57	129				
Benzoic acid	17	25	40.00	0	42.6	50	130				JQYZ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	5.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Chrysene	17	0.20	20.00	0	82.7	59	123				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-1-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718225**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Dibenz(a,h)anthracene	19	0.20	20.00	0	93.2	75	134				
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Fluoranthene	17	0.20	20.00	0	86.9	57	128				
Fluorene	13	0.20	20.00	0	67.0	52	124				
Hexachlorobenzene	12	5.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Indeno(1,2,3-cd)pyrene	19	0.20	20.00	0	95.2	52	134				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitrosodi-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Naphthalene	9.5	0.20	20.00	0	47.6	40	121				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenanthrene	14	0.20	20.00	0	68.9	59	120				
Phenol	6.4	5.0	20.00	0	31.8	34	121				Q
Pyrene	18	0.20	20.00	0	87.8	57	126				
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	33	122				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-1-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718226**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	25	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
1-Methylnaphthalene	11	0.20	20.00	0	57.3	41	119	10.43	9.41	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	
2-Methylnaphthalene	11	0.20	20.00	0	56.1	40	121	10.04	11.1	25	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Acenaphthene	13	0.20	20.00	0	63.3	47	122	11.98	5.44	25	
Acenaphthylene	13	0.20	20.00	0	64.8	41	130	12.14	6.46	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-1-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718226**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Anthracene	14	0.20	20.00	0	70.0	57	123	14.37	2.54	25	
Benz(a)anthracene	16	0.20	20.00	0	81.7	58	125	16.66	1.94	25	
Benzo(a)pyrene	17	0.20	20.00	0	85.1	54	128	17.56	3.12	25	
Benzo(b)fluoranthene	17	0.20	20.00	0	87.4	53	131	18.63	6.37	25	
Benzo(g,h,i)perylene	17	0.20	20.00	0	86.9	50	134	17.86	2.78	25	
Benzo(k)fluoranthene	19	0.20	20.00	0	93.5	57	129	18.37	1.73	25	
Benzoic acid	32	25	40.00	0	80.1	50	130	17.03	61.2	25	RYZ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	5.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Chrysene	16	0.20	20.00	0	80.6	59	123	16.54	2.57	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenz(a,h)anthracene	18	0.20	20.00	0	90.3	75	134	18.64	3.22	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Fluoranthene	17	0.20	20.00	0	85.2	57	128	17.37	1.98	25	
Fluorene	13	0.20	20.00	0	66.7	52	124	13.39	0.374	25	
Hexachlorobenzene	11	5.0	20.00	0	55.8	53	125	11.59	3.78	25	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Indeno(1,2,3-cd)pyrene	19	0.20	20.00	0	92.6	52	134	19.04	2.82	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	
N-Nitrosodi-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-1-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718226**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	
Naphthalene	11	0.20	20.00	0	53.4	40	121	9.510	11.7	25	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenanthrene	14	0.20	20.00	0	68.4	59	120	13.78	0.801	25	
Phenol	7.0	5.0	20.00	0	35.2	34	121	6.350	10.4	25	
Pyrene	17	0.20	20.00	0	86.7	57	126	17.55	1.20	25	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	33	122		0	25	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86938

Sample ID: **VOA11B LCS 06261** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/26/2016** RunNo: **86938**

Client ID: **LCSW** Batch ID: **R86938** TestNo: **SW8260B** Analysis Date: **6/26/2016** SeqNo: **1686706**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.8	1.0	10.00	0	88.5	78	124				
1,1,1-Trichloroethane	8.3	1.0	10.00	0	82.9	74	131				
1,1,2,2-Tetrachloroethane	9.6	1.0	10.00	0	96.0	71	121				
1,1,2-Trichloroethane	9.2	1.0	10.00	0	91.7	80	119				
1,1-Dichloroethane	9.3	2.0	10.00	0	93.2	77	125				
1,1-Dichloroethene	9.0	1.0	10.00	0	90.1	71	131				
1,2,3-Trichloropropane	9.1	1.0	10.00	0	91.3	73	122				
1,2-Dibromo-3-chloropropane	7.9	5.0	10.00	0	78.6	62	128				Y
1,2-Dibromoethane	9.0	1.0	10.00	0	90.2	77	121				
1,2-Dichloroethane	8.8	1.0	10.00	0	87.8	73	128				
1,2-Dichloropropane	9.1	1.0	10.00	0	91.3	78	122				
2-Butanone [MEK]	7.9	10	10.00	0	79.1	56	143				J
2-Hexanone	5.8	2.0	10.00	0	57.5	57	139				Y
Acetone	8.9	10	10.00	0	88.9	39	160				JY
Benzene	9.3	1.0	10.00	0	93.0	79	120				
Bromodichloromethane	8.7	1.0	10.00	0	86.7	79	125				
Bromoform	6.3	1.0	10.00	0	63.1	66	130				QY
Carbon disulfide	10	1.0	10.00	0	102	64	133				
Carbon tetrachloride	9.1	1.0	10.00	0	90.7	72	136				
Chlorobenzene	9.1	1.0	10.00	0	91.0	82	118				
Chlorodibromomethane	6.6	1.0	10.00	0	66.5	74	126				Q
Chloroethane	10	2.0	10.00	0	101	60	138				
Chloroform	9.0	1.0	10.00	0	90.2	79	124				
Chloromethane	11	1.0	10.00	0	110	50	139				
cis-1,2-Dichloroethene	9.3	1.0	10.00	0	92.6	78	123				
cis-1,3-Dichloropropene	6.8	1.0	10.00	0	67.7	75	124				Q
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	105	32	152				
Ethylbenzene	8.8	1.0	10.00	0	87.9	79	121				
Methylene chloride	11	5.0	10.00	0	106	74	124				
Styrene	7.9	1.0	10.00	0	78.8	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86938

Sample ID: **VOA11B LCS 06261** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/26/2016** RunNo: **86938**

Client ID: **LCSW** Batch ID: **R86938** TestNo: **SW8260B** Analysis Date: **6/26/2016** SeqNo: **1686706**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	8.9	1.0	10.00	0	88.8	74	129				
Toluene	8.9	1.0	10.00	0	89.1	80	121				
trans-1,2-Dichloroethene	9.7	1.0	10.00	0	96.7	75	124				
trans-1,3-Dichloropropene	8.6	1.0	10.00	0	86.4	73	127				
Trichloroethene	8.9	1.0	10.00	0	88.9	79	123				
Trichlorofluoromethane [Freon-11]	8.8	1.0	10.00	0	88.4	65	141				
Vinyl acetate	8.3	5.0	10.00	0	82.6	54	146				
Vinyl chloride	11	1.0	10.00	0	106	58	137				
Xylene (total)	25	3.0	30.00	0	83.7	79	121				
Surr: 4-Bromofluorobenzene	58		60.00		96.7	85	114				
Surr: Dibromofluoromethane	57		60.00		95.0	80	119				
Surr: Toluene-d8	56		60.00		93.0	89	112				

Sample ID: **VOA11B LCSD 0626** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/26/2016** RunNo: **86938**

Client ID: **LCSS02** Batch ID: **R86938** TestNo: **SW8260B** Analysis Date: **6/26/2016** SeqNo: **1686707**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.1	1.0	10.00	0	81.1	78	124	8.850	8.73	25	
1,1,1-Trichloroethane	7.4	1.0	10.00	0	74.4	74	131	8.290	10.8	25	
1,1,2,2-Tetrachloroethane	9.2	1.0	10.00	0	91.9	71	121	9.600	4.36	25	
1,1,2-Trichloroethane	9.0	1.0	10.00	0	89.6	80	119	9.170	2.32	25	
1,1-Dichloroethane	8.4	2.0	10.00	0	83.7	77	125	9.320	10.7	25	
1,1-Dichloroethene	7.7	1.0	10.00	0	76.8	71	131	9.010	15.9	25	
1,2,3-Trichloropropane	8.8	1.0	10.00	0	87.6	73	122	9.130	4.14	25	
1,2-Dibromo-3-chloropropane	6.4	5.0	10.00	0	63.8	62	128	7.860	20.8	25	Y
1,2-Dibromoethane	8.9	1.0	10.00	0	88.6	77	121	9.020	1.79	25	
1,2-Dichloroethane	8.4	1.0	10.00	0	84.0	73	128	8.780	4.42	25	
1,2-Dichloropropane	8.7	1.0	10.00	0	87.2	78	122	9.130	4.59	25	
2-Butanone [MEK]	7.9	10	10.00	0	78.7	56	143	7.910	0.507	25	J
2-Hexanone	5.6	2.0	10.00	0	55.6	57	139	5.750	3.36	25	QY
Acetone	8.3	10	10.00	0	83.2	39	160	8.890	6.62	25	JY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86938

Sample ID: **VOA11B LCSD 0626** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/26/2016** RunNo: **86938**

Client ID: **LCSS02** Batch ID: **R86938** TestNo: **SW8260B** Analysis Date: **6/26/2016** SeqNo: **1686707**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.5	1.0	10.00	0	85.3	79	120	9.300	8.64	25	
Bromodichloromethane	8.2	1.0	10.00	0	82.1	79	125	8.670	5.45	25	
Bromoform	6.2	1.0	10.00	0	61.9	66	130	6.310	1.92	25	QY
Carbon disulfide	8.6	1.0	10.00	0	86.4	64	133	10.20	16.6	25	
Carbon tetrachloride	8.0	1.0	10.00	0	79.7	72	136	9.070	12.9	25	
Chlorobenzene	8.5	1.0	10.00	0	85.0	82	118	9.100	6.82	25	
Chlorodibromomethane	6.5	1.0	10.00	0	64.8	74	126	6.650	2.59	25	Q
Chloroethane	9.2	2.0	10.00	0	92.5	60	138	10.10	8.79	25	
Chloroform	8.3	1.0	10.00	0	82.9	79	124	9.020	8.43	25	
Chloromethane	10	1.0	10.00	0	99.7	50	139	11.05	10.3	25	
cis-1,2-Dichloroethene	8.4	1.0	10.00	0	84.0	78	123	9.260	9.74	25	
cis-1,3-Dichloropropene	6.4	1.0	10.00	0	64.0	75	124	6.770	5.62	25	Q
Dichlorodifluoromethane [Freon-12]	9.0	1.0	10.00	0	90.0	32	152	10.46	15.0	25	
Ethylbenzene	7.8	1.0	10.00	0	78.1	79	121	8.790	11.8	25	Q
Methylene chloride	9.8	5.0	10.00	0	98.4	74	124	10.57	7.15	25	
Styrene	7.1	1.0	10.00	0	71.1	78	123	7.880	10.3	25	Q
Tetrachloroethene	8.0	1.0	10.00	0	80.0	74	129	8.880	10.4	25	
Toluene	8.1	1.0	10.00	0	81.3	80	121	8.910	9.15	25	
trans-1,2-Dichloroethene	8.7	1.0	10.00	0	87.0	75	124	9.670	10.6	25	
trans-1,3-Dichloropropene	8.1	1.0	10.00	0	81.3	73	127	8.640	6.08	25	
Trichloroethene	8.1	1.0	10.00	0	80.8	79	123	8.890	9.55	25	
Trichlorofluoromethane [Freon-11]	8.7	1.0	10.00	0	86.9	65	141	8.840	1.71	25	
Vinyl acetate	8.0	5.0	10.00	0	80.5	54	146	8.260	2.58	0	
Vinyl chloride	9.2	1.0	10.00	0	91.6	58	137	10.65	15.0	25	
Xylene (total)	23	3.0	30.00	0	75.3	79	121	25.11	10.6	25	Q
Surr: 4-Bromofluorobenzene	57		60.00		94.6	85	114		0	25	
Surr: Dibromofluoromethane	55		60.00		92.2	80	119		0	25	
Surr: Toluene-d8	55		60.00		91.4	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86938**

Sample ID:	**VOA11B MBLK 0626**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/26/2016**	RunNo:	**86938**
Client ID:	**PBW**	Batch ID:	**R86938**	TestNo:	**SW8260B**			Analysis Date:	**6/26/2016**	SeqNo:	**1686711**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									UY
Acetone	1.9	10									JY
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									UY
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	0.43	1.0									J
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	0.66	5.0									J
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86938**

Sample ID:	**VOA11B MBLK 0626**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/26/2016**	RunNo:	**86938**
Client ID:	**PBW**	Batch ID:	**R86938**	TestNo:	**SW8260B**			Analysis Date:	**6/26/2016**	SeqNo:	**1686711**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	44		50.00		88.3	85	114				
Surr: Dibromofluoromethane	50		50.00		100	80	119				
Surr: Toluene-d8	44		50.00		87.2	89	112				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID: **VOA10 LCS 062716** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86965**

Client ID: **LCSW** Batch ID: **R86965** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1687436**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10	1.0	10.00	0	102	78	124				
1,1,1-Trichloroethane	9.5	1.0	10.00	0	94.8	74	131				
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	101	71	121				
1,1,2-Trichloroethane	11	1.0	10.00	0	106	80	119				
1,1-Dichloroethane	9.6	2.0	10.00	0	95.9	77	125				
1,1-Dichloroethene	9.4	1.0	10.00	0	94.5	71	131				
1,2,3-Trichloropropane	9.7	1.0	10.00	0	97.4	73	122				
1,2-Dibromo-3-chloropropane	7.4	5.0	10.00	0	74.1	62	128				Y
1,2-Dibromoethane	9.9	1.0	10.00	0	98.7	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	106	73	128				
1,2-Dichloropropane	11	1.0	10.00	0	113	78	122				
2-Butanone [MEK]	11	10	10.00	0	110	56	143				
2-Hexanone	10	2.0	10.00	0	99.9	57	139				
Acetone	16	10	10.00	0	156	39	160				
Benzene	9.4	1.0	10.00	0	94.4	79	120				
Bromodichloromethane	11	1.0	10.00	0	114	79	125				
Bromoform	7.7	1.0	10.00	0	76.9	66	130				
Carbon disulfide	9.2	1.0	10.00	0	92.1	64	133				
Carbon tetrachloride	10	1.0	10.00	0	101	72	136				
Chlorobenzene	10	1.0	10.00	0	101	82	118				
Chlorodibromomethane	11	1.0	10.00	0	109	74	126				Y
Chloroethane	11	2.0	10.00	0	106	60	138				
Chloroform	9.6	1.0	10.00	0	95.5	79	124				
Chloromethane	10	1.0	10.00	0	104	50	139				
cis-1,2-Dichloroethene	9.6	1.0	10.00	0	95.8	78	123				
cis-1,3-Dichloropropene	10	1.0	10.00	0	101	75	124				
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	100	32	152				
Ethylbenzene	9.8	1.0	10.00	0	97.6	79	121				
Methylene chloride	12	5.0	10.00	0	117	74	124				
Styrene	10	1.0	10.00	0	105	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID: **VOA10 LCS 062716** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86965**

Client ID: **LCSW** Batch ID: **R86965** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1687436**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	10	1.0	10.00	0	101	74	129				
Toluene	11	1.0	10.00	0	111	80	121				
trans-1,2-Dichloroethene	10	1.0	10.00	0	101	75	124				
trans-1,3-Dichloropropene	10	1.0	10.00	0	103	73	127				
Trichloroethene	10	1.0	10.00	0	103	79	123				
Trichlorofluoromethane [Freon-11]	10	1.0	10.00	0	102	65	141				
Vinyl acetate	11	5.0	10.00	0	106	54	146				
Vinyl chloride	11	1.0	10.00	0	110	58	137				
Xylene (total)	30	3.0	30.00	0	102	79	121				
Surr: 4-Bromofluorobenzene	60		60.00		99.9	85	114				
Surr: Dibromofluoromethane	52		60.00		87.3	80	119				
Surr: Toluene-d8	60		60.00		99.6	89	112				

Sample ID: **VOA10 LCSD 06271** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86965**

Client ID: **LCSS02** Batch ID: **R86965** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1687437**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10	1.0	10.00	0	99.5	78	124	10.21	2.58	25	
1,1,1-Trichloroethane	8.8	1.0	10.00	0	88.1	74	131	9.480	7.33	25	
1,1,2,2-Tetrachloroethane	9.2	1.0	10.00	0	92.4	71	121	10.08	8.70	25	
1,1,2-Trichloroethane	10	1.0	10.00	0	99.6	80	119	10.61	6.32	25	
1,1-Dichloroethane	9.3	2.0	10.00	0	93.0	77	125	9.590	3.07	25	
1,1-Dichloroethene	9.0	1.0	10.00	0	89.6	71	131	9.450	5.32	25	
1,2,3-Trichloropropane	9.0	1.0	10.00	0	90.2	73	122	9.740	7.68	25	
1,2-Dibromo-3-chloropropane	8.0	5.0	10.00	0	80.3	62	128	7.410	8.03	25	Y
1,2-Dibromoethane	9.6	1.0	10.00	0	96.0	77	121	9.870	2.77	25	
1,2-Dichloroethane	10	1.0	10.00	0	102	73	128	10.64	4.62	25	
1,2-Dichloropropane	10	1.0	10.00	0	104	78	122	11.28	8.02	25	
2-Butanone [MEK]	10	10	10.00	0	101	56	143	10.99	8.05	25	
2-Hexanone	10	2.0	10.00	0	101	57	139	9.990	0.698	25	
Acetone	14	10	10.00	0	142	39	160	15.57	9.41	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID:	VOA10 LCSD 06271	Samp Type:	LCSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86965
Client ID:	LCSS02	Batch ID:	R86965	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1687437

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.9	1.0	10.00	0	89.0	79	120	9.440	5.89	25	
Bromodichloromethane	11	1.0	10.00	0	106	79	125	11.35	7.12	25	
Bromoform	6.9	1.0	10.00	0	68.6	66	130	7.690	11.4	25	
Carbon disulfide	8.2	1.0	10.00	0	81.9	64	133	9.210	11.7	25	
Carbon tetrachloride	8.9	1.0	10.00	0	89.3	72	136	10.11	12.4	25	
Chlorobenzene	9.1	1.0	10.00	0	90.8	82	118	10.06	10.2	25	
Chlorodibromomethane	10	1.0	10.00	0	103	74	126	10.94	6.22	25	Y
Chloroethane	10	2.0	10.00	0	101	60	138	10.62	5.52	25	
Chloroform	8.9	1.0	10.00	0	89.4	79	124	9.550	6.60	25	
Chloromethane	9.9	1.0	10.00	0	98.8	50	139	10.45	5.61	25	
cis-1,2-Dichloroethene	9.1	1.0	10.00	0	90.6	78	123	9.580	5.58	25	
cis-1,3-Dichloropropene	9.8	1.0	10.00	0	98.3	75	124	10.14	3.10	25	
Dichlorodifluoromethane [Freon-12]	9.4	1.0	10.00	0	94.4	32	152	10.04	6.16	25	
Ethylbenzene	9.2	1.0	10.00	0	92.2	79	121	9.760	5.69	25	
Methylene chloride	11	5.0	10.00	0	114	74	124	11.73	2.50	25	
Styrene	9.5	1.0	10.00	0	95.1	78	123	10.48	9.70	25	
Tetrachloroethene	9.8	1.0	10.00	0	98.1	74	129	10.08	2.71	25	
Toluene	11	1.0	10.00	0	109	80	121	11.13	2.09	25	
trans-1,2-Dichloroethene	9.6	1.0	10.00	0	95.8	75	124	10.12	5.48	25	
trans-1,3-Dichloropropene	9.9	1.0	10.00	0	99.4	73	127	10.27	3.27	25	
Trichloroethene	9.6	1.0	10.00	0	96.1	79	123	10.28	6.74	25	
Trichlorofluoromethane [Freon-11]	10	1.0	10.00	0	102	65	141	10.22	0.392	25	
Vinyl acetate	9.8	5.0	10.00	0	98.4	54	146	10.64	7.81	0	
Vinyl chloride	11	1.0	10.00	0	106	58	137	11.00	3.52	25	
Xylene (total)	28	3.0	30.00	0	94.3	79	121	30.49	7.52	25	
Surr: 4-Bromofluorobenzene	59		60.00		98.7	85	114		0	25	
Surr: Dibromofluoromethane	51		60.00		85.6	80	119		0	25	
Surr: Toluene-d8	60		60.00		99.7	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID:	VOA10 MBLK 06271	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86965
Client ID:	PBW	Batch ID:	R86965	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1687440

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	10	10									U
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									UY
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	5.0	5.0									U
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID:	VOA10 MBLK 06271	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86965
Client ID:	PBW	Batch ID:	R86965	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1687440

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	49		50.00		97.0	85	114				
Surr: Dibromofluoromethane	42		50.00		84.0	80	119				
Surr: Toluene-d8	45		50.00		89.8	89	112				

RTI Laboratories - Definitions and Acronyms

WO#: 1606465

Date Reported: 8/26/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

160646S

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: dc1416-05
Batch May16

Database Information					Other Sample Information						Analysis											
	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
1	FieldQC	—	—	TB	1	TB-GW-061316-01	6/13/16	0830	WQ	3	037	3										
2	FPH-SB02	—	—	N	1	FPH-SB02-GW		1600	WG	3		3										
3	FPH-SB03	—	—	N	1	FPH-SB03-GW		1500	WG	3		3										
4	FPH-SB04	—	—	N	1	FPH-SB04-GW		1345	WG	3		3										
5	FPH-SB04	—	—	FD	1	FPH-SB04-GWDUP	↓	1345	WG	3		3										
6	FieldQC	—	—	TB	1	TB-GW-061416-01	6/14/16	0800	WQ	3		3										
7	FPH-SB01	-	—	N	1	FPH-SB01-GW	6/14/16	0850	WG	7	↓	3			4							

1. Relinquished By / Company	Amanda Martin / AECOM	Date	6/14/16	Time	1400	1. Received By / Company	Transfer to FedEx
2. Relinquished By / Company		Date		Time		2. Received By / Company	
3. Relinquished By / Company		Date		Time		3. Received By / Company	RTI Labs

		Date	Time
		6/14/16	1400
		Date	Time
		6/15/16	09:45

Comments

Shipment Method/Airbill No. 8105 0202 5729

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Semivolatiles

Chain of Custody

1600465

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061416-06
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
2 FPH-SB02	—	—	N	1	FPH-SB02-GW	6/13/16	1600	WG	4	038				4							
3 FPH-SB03	—	—	N	1	FPH-SB03-GW	6/13/16	1500	WG	4	039				4							
														~~4~~							

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
Amanda Martin AECOM	6/14/16	800	Transfer to FedEx	6/14/16	1100
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			APlows KES	6/15/16	940
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5730

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

X321

Chain of Custody

160064G5

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/14/16-07
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
4 FPH-SB04	—	—	N	1	FPH-SB04-GW	6/13/16	1345	WG	4	~~C3E~~				4								cooler #039
5 FPH-SB04	—	—	FD	1	FPH-SB04-GWDUP	↓	1345	WG	4	639				4								

6/14/16

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/14/16	Time 1400	1. Received By / Company	transfer to FedEx	Date 6/14/16	Time 1400
2. Relinquished By / Company		Date	Time	2. Received By / Company	A A Flores KES	Date 6/15/16	Time 940
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

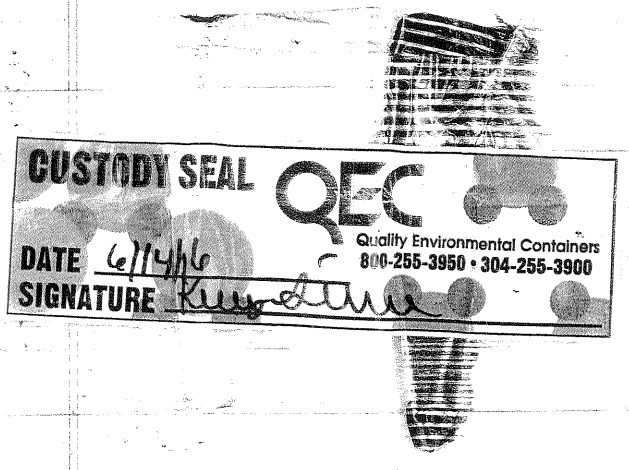
Shipment Method/Airbill No. 8103 0202 5740

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

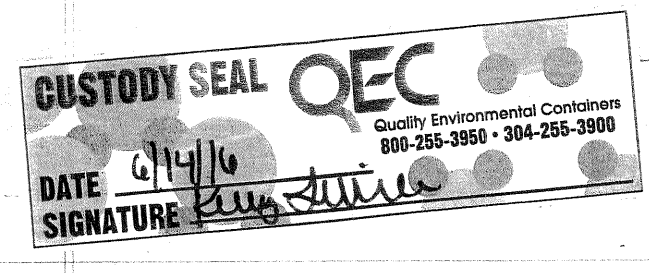
A-595

6/15/16



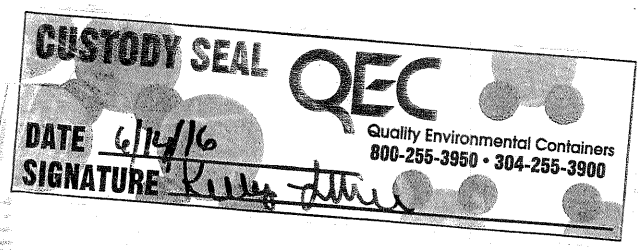
Cooler ID A595
track# 8103 0202 5740
Cooler # 039
CoC 061416-07
Cooler Temp Blank 3.6°C

Cooler # 034
Cooler ID: TA Buffalo
CoC ID: 061416-02
TRACKING # 5703 0202 5784
Cooler Temp Blank: 2.4°C

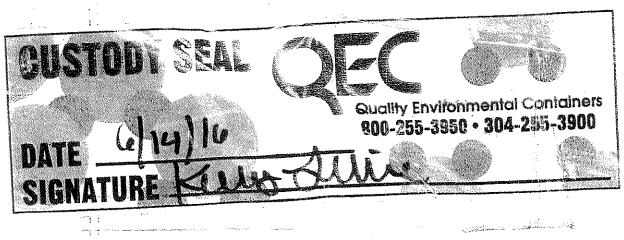


Cooler # 037
Cooler ID Serenity 018
CoC ID 061416-05
TRACKING # 8103 0202 5729
Cooler Temp Blank 2.8°C

Cooler # 033
Cooler ID QDL
CoC ID 061416-01
tracking 8103 0202 5773
Temp (Cooler) Blank 3.8°C



6/15/16 2



Cooler # 038
Cooler ID x321
CoC ID 061416-04
tracking 8103 0202 5730
Cooler Temp Blank: 1.6°C

Cooler # 036
Cooler ID: GLEC
CoC 061416-04
tracking 8103 0202 5751
Cooler Temp Blank 3.6 °C

Cooler #036
Cooler ID RTI-77
CoC 061416-03
track# 8103 0202 5762
Cooler Temp Blank 1.6°C

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Tuesday, September 06, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606467

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606467-001A	TB-SO-061216-02		6/12/2016 8:05 AM	6/14/2016 9:41 AM	Soil
1606467-001B	TB-SO-061216-02		6/12/2016 8:05 AM	6/14/2016 9:41 AM	Soil
1606467-001C	TB-SO-061216-02		6/12/2016 8:05 AM	6/14/2016 9:41 AM	Soil
1606467-002A	P113-SB01-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-002B	P113-SB01-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-002C	P113-SB01-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-002D	P113-SB01-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-002E	P113-SB01-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-002F	P113-SB01-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-003A	P113-SB01-05		6/12/2016 12:35 PM	6/14/2016 9:41 AM	Soil
1606467-003B	P113-SB01-05		6/12/2016 12:35 PM	6/14/2016 9:41 AM	Soil
1606467-003C	P113-SB01-05		6/12/2016 12:35 PM	6/14/2016 9:41 AM	Soil
1606467-003D	P113-SB01-05		6/12/2016 12:35 PM	6/14/2016 9:41 AM	Soil
1606467-003E	P113-SB01-05		6/12/2016 12:35 PM	6/14/2016 9:41 AM	Soil
1606467-003F	P113-SB01-05		6/12/2016 12:35 PM	6/14/2016 9:41 AM	Soil
1606467-004A	P113-SS02-01		6/12/2016 12:15 PM	6/14/2016 9:41 AM	Soil
1606467-004B	P113-SS02-01		6/12/2016 12:15 PM	6/14/2016 9:41 AM	Soil
1606467-004C	P113-SS02-01		6/12/2016 12:15 PM	6/14/2016 9:41 AM	Soil
1606467-004D	P113-SS02-01		6/12/2016 12:15 PM	6/14/2016 9:41 AM	Soil
1606467-004E	P113-SS02-01		6/12/2016 12:15 PM	6/14/2016 9:41 AM	Soil
1606467-004F	P113-SS02-01		6/12/2016 12:15 PM	6/14/2016 9:41 AM	Soil
1606467-005A	P113-SB02-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-005B	P113-SB02-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-005C	P113-SB02-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-005D	P113-SB02-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-005E	P113-SB02-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-005F	P113-SB02-04		6/12/2016 12:30 PM	6/14/2016 9:41 AM	Soil
1606467-006A	P113-SS03-01		6/12/2016 12:10 PM	6/14/2016 9:41 AM	Soil
1606467-006B	P113-SS03-01		6/12/2016 12:10 PM	6/14/2016 9:41 AM	Soil
1606467-006C	P113-SS03-01		6/12/2016 12:10 PM	6/14/2016 9:41 AM	Soil
1606467-006D	P113-SS03-01		6/12/2016 12:10 PM	6/14/2016 9:41 AM	Soil
1606467-006E	P113-SS03-01		6/12/2016 12:10 PM	6/14/2016 9:41 AM	Soil
1606467-006F	P113-SS03-01		6/12/2016 12:10 PM	6/14/2016 9:41 AM	Soil
1606467-007A	H6-SS01-01		6/12/2016 11:35 AM	6/14/2016 9:41 AM	Soil
1606467-007B	H6-SS01-01		6/12/2016 11:35 AM	6/14/2016 9:41 AM	Soil
1606467-008A	H6-SS02-01		6/12/2016 11:30 AM	6/14/2016 9:41 AM	Soil
1606467-008B	H6-SS02-01		6/12/2016 11:30 AM	6/14/2016 9:41 AM	Soil
1606467-009A	H6-SS03-01		6/12/2016 11:45 AM	6/14/2016 9:41 AM	Soil
1606467-009B	H6-SS03-01		6/12/2016 11:45 AM	6/14/2016 9:41 AM	Soil
1606467-010A	WDS-SB10-08		6/12/2016 1:50 PM	6/14/2016 9:41 AM	Soil
1606467-010B	WDS-SB10-08		6/12/2016 1:50 PM	6/14/2016 9:41 AM	Soil
1606467-010C	WDS-SB10-08		6/12/2016 1:50 PM	6/14/2016 9:41 AM	Soil
1606467-010D	WDS-SB10-08		6/12/2016 1:50 PM	6/14/2016 9:41 AM	Soil
1606467-010E	WDS-SB10-08		6/12/2016 1:50 PM	6/14/2016 9:41 AM	Soil
1606467-010F	WDS-SB10-08		6/12/2016 1:50 PM	6/14/2016 9:41 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606467-010G	WDS-SB10-08		6/12/2016 1:50 PM	6/14/2016 9:41 AM	Soil
1606467-011A	H4-SS01-01		6/12/2016 2:30 PM	6/14/2016 9:41 AM	Soil
1606467-011B	H4-SS01-01		6/12/2016 2:30 PM	6/14/2016 9:41 AM	Soil
1606467-012A	H4-SS02-01		6/12/2016 2:10 PM	6/14/2016 9:41 AM	Soil
1606467-012B	H4-SS02-01		6/12/2016 2:10 PM	6/14/2016 9:41 AM	Soil
1606467-013A	H4-SB02-05		6/12/2016 2:15 PM	6/14/2016 9:41 AM	Soil
1606467-013B	H4-SB02-05		6/12/2016 2:15 PM	6/14/2016 9:41 AM	Soil
1606467-014A	H4-SS03-01		6/12/2016 1:55 PM	6/14/2016 9:41 AM	Soil
1606467-014B	H4-SS03-01		6/12/2016 1:55 PM	6/14/2016 9:41 AM	Soil
1606467-015A	H4-SB03-05		6/12/2016 2:00 PM	6/14/2016 9:41 AM	Soil
1606467-015B	H4-SB03-05		6/12/2016 2:00 PM	6/14/2016 9:41 AM	Soil
1606467-016A	H18-SS01-01		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-016B	H18-SS01-01		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-016C	H18-SS01-01		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-016D	H18-SS01-01		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-016E	H18-SS01-01		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-016F	H18-SS01-01		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-016G	H18-SS01-01		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-017A	H18-SS01-01 DUP		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-017B	H18-SS01-01 DUP		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-017C	H18-SS01-01 DUP		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-017D	H18-SS01-01 DUP		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-017E	H18-SS01-01 DUP		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-017F	H18-SS01-01 DUP		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-017G	H18-SS01-01 DUP		6/12/2016 3:40 PM	6/14/2016 9:41 AM	Soil
1606467-018A	H18-SS01-02		6/12/2016 3:45 PM	6/14/2016 9:41 AM	Soil
1606467-018B	H18-SS01-02		6/12/2016 3:45 PM	6/14/2016 9:41 AM	Soil
1606467-018C	H18-SS01-02		6/12/2016 3:45 PM	6/14/2016 9:41 AM	Soil
1606467-018D	H18-SS01-02		6/12/2016 3:45 PM	6/14/2016 9:41 AM	Soil
1606467-018E	H18-SS01-02		6/12/2016 3:45 PM	6/14/2016 9:41 AM	Soil
1606467-018F	H18-SS01-02		6/12/2016 3:45 PM	6/14/2016 9:41 AM	Soil
1606467-018G	H18-SS01-02		6/12/2016 3:45 PM	6/14/2016 9:41 AM	Soil
1606467-019A	H18-SS02-01		6/12/2016 4:00 PM	6/14/2016 9:41 AM	Soil
1606467-019B	H18-SS02-01		6/12/2016 4:00 PM	6/14/2016 9:41 AM	Soil
1606467-019C	H18-SS02-01		6/12/2016 4:00 PM	6/14/2016 9:41 AM	Soil
1606467-019D	H18-SS02-01		6/12/2016 4:00 PM	6/14/2016 9:41 AM	Soil
1606467-019E	H18-SS02-01		6/12/2016 4:00 PM	6/14/2016 9:41 AM	Soil
1606467-019F	H18-SS02-01		6/12/2016 4:00 PM	6/14/2016 9:41 AM	Soil
1606467-019G	H18-SS02-01		6/12/2016 4:00 PM	6/14/2016 9:41 AM	Soil
1606467-020A	H18-SS02-02		6/12/2016 4:05 PM	6/14/2016 9:41 AM	Soil
1606467-020B	H18-SS02-02		6/12/2016 4:05 PM	6/14/2016 9:41 AM	Soil
1606467-020C	H18-SS02-02		6/12/2016 4:05 PM	6/14/2016 9:41 AM	Soil
1606467-020D	H18-SS02-02		6/12/2016 4:05 PM	6/14/2016 9:41 AM	Soil
1606467-020E	H18-SS02-02		6/12/2016 4:05 PM	6/14/2016 9:41 AM	Soil
1606467-020F	H18-SS02-02		6/12/2016 4:05 PM	6/14/2016 9:41 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606467-020G	H18-SS02-02		6/12/2016 4:05 PM	6/14/2016 9:41 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical report revised 9/16/16: The LOQ reporting limit for Benzene was updated for samples 1606467-001A, -002A, -003A, -005A, -010A, -019A and -020A.

Analytical Report revised 9/6/2016: Surrogate recoveries were corrected for SIM PNA analysis for samples 1606467-002, -010, -018, -019 and -020. Sample reporting limits adjusted for sample 16064670-019 and -020 once re-imported and calculated.
Analytical Report revised 8/11/2016: Compound 3,3´-Dichlorobenzidine was missing in the SVOC analysis. Also Benzoic Acid was missing in the QC Summary report for the LCS, MS and MSD. Dibenzo(a,h)anthracene was reported in the 8270D non SIM run and has been removed. removed two compounds from VOCs analysis for samples 1606467-010A, 016A-020A that were not required.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/OES - 6010C-STAR
- Metals, ICP/MS - 6020A
- Polychlorinated Biphenyls - 8082A
- Volatile Organic Compounds - 8260C-ME STAR
- Volatile Organic Compounds - 8260C-STAR
- Volatile Organic Compounds - 8260C
- Volatile Organic Compounds - 8260C-STAR
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM
- Semi-Volatile Organic Compounds - 8270D-SIM-STAR

Sample 1606467-004A and -006A were initially analyzed twice for Low-Level Volatile Organic Compounds. Responses for internal standards exceeded method specified criteria. Samples re-analyses were performed using the methanol preserved vials. The results for these samples were reported from the methanol vials with associated elevated reporting limits.

Analytical Comments for Test SW_8082S, Analytical Run No 87279, Batch ID 40321:
- Sample 1606467-009A: Surrogate DCB exceeded control limits.
- Sample 1606467-017E: Surrogate DCB exceeded control limits.

Analytical Comments for Test SW_8082S, Analytical Run No 87531, Batch ID 40483:
- Sample 1606467-007A: Surrogate recoveries for TCMX (16.3%) and DCB (17.2%) exceeded control limits - similar recoveries on re-analysis.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86738, Batch ID R86738:
- Sample VOA11B CCV 061616: CCV results for Acetone, Bromoform, Methylene chloride and Vinyl acetate exceeded the 20% criteria.
- Sample VOA11B MBLK 0616: Acetone and Methylene chloride present in method blank at a concentration > 1/2 LOQ.
- Sample VOA11B LCS 06161: Recoveries for 2-Butanone, Acetone, Bromoform, Methylene chloride, Chlorodibromomethane exceeded control limits.
- Sample VOA11B LCSD 0616: Recoveries for Acetone, Bromoform, and Chlorodibromomethane exceeded control limits.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86751, Batch ID R86751:
- Sample VOA11B CCV 061716: CCV results for Acetone, Bromoform, and Vinyl acetate exceeded the 20% criteria.
- Sample VOA11B MBLK 0617: Acetone and Methylene chloride present in Method Blank at a concentration > 1/2 LOQ.
- Sample VOA11B LCS 06171: Recoveries for Acetone, Bromoform, and Methylene chloride exceeded control limits.
- Sample VOA11B LCSD 0617: Recoveries for Acetone, Bromoform, Methylene chloride, Chlorodibromomethane exceeded control limits.

Analytical Comments for Test SW_8260S, Analytical Run No 87292, Batch ID R87292:
- Sample VOA11B ICV 061616: ICV results for Naphthalene exceeded the 20% criteria.
- Sample VOA11B LCS5 0617: Spike recovery for 1,2,4-Trimethylbenzene was outside the control limits.
- Sample 166467-004C MS: Spike recoveries for 1,2,4-Trimethylbenzene and p-Isoproplytoluene were outside the control limits.
- Sample 166467-004C MSD: Spike recoveries for 1,2,4-Trimethylbenzene, Naphthalene, and p-Isoproplytoluene were outside the control limits.

Analytical Comments for Test SW_8260S, Analytical Run No 87293, Batch ID R87293:
- Sample VOA11B ICV 061616: ICV results for Naphthalene exceeded the 20% criteria.

Sample 1606522-007AMS5: Spike recoveries for Naphthalene was outside the control limits.
Sample 1606522-007AMSD5: RPD for Naphthalene was outside the control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86974, Batch ID 40223:
Sample 1606467-010D: Surrogate Terphenyl-d14, and 2-Fluorobiphenyl, exceeded recovery control limit. Sample reanalyzed with similar results.
Sample 1606467-016D: Surrogate Terphenyl-d14 exceeded recovery control limit.
Sample LCS-40223: Spike recovery for 3,3´-Dichlorobenzidine was outside the control limits.
Sample 1606467-010D MS/MSD: Spike recovery for 3,3´-Dichlorobenzidine was outside the control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86974, Batch ID R86974:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 062516: 4-Nitrophenol,Benzoic acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine
Sample CCVE S8 062516: Ending CCV results for Benzoic acid exceeded recovery control limit.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87809, Batch ID 40198:
Sample 1606430-009D MS: Spike recoveries for Fluoranthene and Pyrene were outside the control limits.
Sample 1606467-003D: Recovery for Internal Standards exceeded control limits due to elevated concentrations of target and non-target analytes in the sample. Sample was re-analyzed and results were similar.
Sample 1606467-004D: Recovery for Internal Standards exceeded control limits due to elevated concentrations of target and non-target analytes in the sample. Sample was re-analyzed and results were similar.
Sample 1606467-005D: Recovery for Internal Standards exceeded control limits due to elevated concentrations of target and non-target analytes in the sample. Sample was re-analyzed and results were similar.
Sample 1606467-006D: Recovery for Internal Standards exceeded control limits due to elevated concentrations of target and non-target analytes in the sample. Sample was re-analyzed and results were similar.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87809, Batch ID 40214:
Sample 1606467-010D: Recovery for Internal Standards exceeded control limits due to elevated concentrations of target and non-target analytes in the sample. Sample was re-analyzed and results were similar.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87809, Batch ID R87809:
Sample CCV SIM 071416S7: CCV results for Benz(a)anthracene, Benzo(b)fluoranthene and Benzo(k)fluoranthene exceed the 20% criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87666, Batch ID R87666:
Sample CCV SIM 070816S7: CCV results for Benz(a)anthracene exceed the 20% criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87666, Batch ID 40214:
Sample 1606506-006A MS: Spike recoveries for Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene and Pyrene were outside the control limits.
Sample 1606506-006A MSD: Spike recoveries for Benz(a)anthracene, Benzo(k)fluoranthene, Fluoranthene and Pyrene were outside the control limits.

Analytical Comments for Test SW_8082S, Analytical Run No 87700, Batch ID 40321:
1606467-007A SW_8082S: Sample ID 1606467-007A: Surrogate DCB & TCMX exceed control limits; sample ran 2x same results; sent back for re-extraction.

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 8:05:00 AM
Project: Camp Hero
Lab ID: 1606467-001 **Matrix:** Soil
Client Sample ID: TB-SO-061216-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00060	U	0.00029	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
1,1,1-Trichloroethane	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
1,1,2,2-Tetrachloroethane	0.00060	U	0.00053	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
1,1,2-Trichloroethane	0.00060	U	0.00039	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
1,1-Dichloroethane	0.00060	U	0.00015	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
1,1-Dichloroethene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
1,2,3-Trichloropropane	0.00060	UQ	0.00035	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
1,2-Dibromo-3-chloropropane	0.0020	U	0.0014	0.0020	0.0050	mg/Kg	1	6/15/2016 9:20 PM
1,2-Dibromoethane	0.00060	U	0.00045	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
1,2-Dichloroethane	0.00060	U	0.00014	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
1,2-Dichloropropane	0.00060	U	0.00028	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
2-Butanone [MEK]	0.010	U	0.0059	0.010	0.020	mg/Kg	1	6/15/2016 9:20 PM
2-Hexanone	0.0020	UY	0.00063	0.0020	0.0050	mg/Kg	1	6/15/2016 9:20 PM
Acetone	0.0095	JB YQ	0.00091	0.0020	0.010	mg/Kg	1	6/15/2016 9:20 PM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Bromodichloromethane	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Bromoform	0.00060	UQ	0.00033	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Carbon disulfide	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Carbon tetrachloride	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Chlorobenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Chlorodibromomethane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Chloroethane	0.0010	U	0.00076	0.0010	0.0020	mg/Kg	1	6/15/2016 9:20 PM
Chloroform	0.00060	U	0.00048	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Chloromethane	0.00060	U	0.00034	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
cis-1,2-Dichloroethene	0.00060	U	0.00056	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
cis-1,3-Dichloropropene	0.00060	UQ	0.00016	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Dichlorodifluoromethane [Freon-12]	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Methylene chloride	0.0012	JB YQ	0.0011	0.0020	0.0050	mg/Kg	1	6/15/2016 9:20 PM
Styrene	0.00060	UQ	0.00023	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Tetrachloroethene	0.00060	U	0.00032	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Toluene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
trans-1,2-Dichloroethene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
trans-1,3-Dichloropropene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Trichloroethene	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Trichlorofluoromethane [Freon-11]	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/15/2016 9:20 PM
Vinyl acetate	0.00060	UY	0.00047	0.00060	0.0050	mg/Kg	1	6/15/2016 9:20 PM
Vinyl chloride	0.00060	U	0.00031	0.00060	0.00080	mg/Kg	1	6/15/2016 9:20 PM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg	1	6/15/2016 9:20 PM
Surr: 4-Bromofluorobenzene	88.0			79-119		%Rec	1	6/15/2016 9:20 PM
Surr: Dibromofluoromethane	97.1			78-119		%Rec	1	6/15/2016 9:20 PM
Surr: Toluene-d8	89.0			85-116		%Rec	1	6/15/2016 9:20 PM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606467-002 **Matrix:** Soil
Client Sample ID: P113-SB01-04

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	4.6		0.50	0.81	4.1	mg/Kg-dry	1	7/7/2016 1:53 PM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Acenaphthylene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Benzo(a)anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Benzo(a)pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Benzo(b)fluoranthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Benzo(g,h,i)perylene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Benzo(k)fluoranthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Chrysene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Dibenzo(a,h)anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Fluoranthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Fluorene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Indeno(1,2,3-cd)pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Phenanthrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/12/2016 1:56 AM
Surr: 2-Fluorobiphenyl	65.7			46-115		%Rec	1	7/12/2016 1:56 AM
Surr: Nitrobenzene-d5	76.4			44-125		%Rec	1	7/12/2016 1:56 AM
Surr: Terphenyl-d14	87.0			58-133		%Rec	1	7/12/2016 1:56 AM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.0010	U	0.00045	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
1,3,5-Trimethylbenzene	0.0010	U	0.00034	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
Benzene	0.0010	U	0.00047	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
Ethylbenzene	0.0010	U	0.00038	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
Isopropylbenzene	0.0010	U	0.00033	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
Methyl tert-butyl ether [MTBE]	0.0010	U	0.00031	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
n-Butylbenzene	0.0010	U	0.00046	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
n-Propylbenzene	0.0010	U	0.00030	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
Naphthalene	0.0010	U	0.00088	0.0010	0.0086	mg/Kg-dry	1.4	6/16/2016 12:31 PM
p-Isopropyltoluene [p-Cymene]	0.0010	U	0.00045	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
sec-Butylbenzene	0.0017	U	0.0012	0.0017	0.0035	mg/Kg-dry	1.4	6/16/2016 12:31 PM
tert-Butylbenzene	0.0010	U	0.00095	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
Toluene	0.0010	U	0.00046	0.0010	0.0017	mg/Kg-dry	1.4	6/16/2016 12:31 PM
Xylene (Total)	0.0031	U	0.00079	0.0031	0.0052	mg/Kg-dry	1.4	6/16/2016 12:31 PM
Surr: 4-Bromofluorobenzene	85.3			79-119		%Rec	1.4	6/16/2016 12:31 PM
Surr: Dibromofluoromethane	94.0			78-119		%Rec	1.4	6/16/2016 12:31 PM
Surr: Toluene-d8	88.4			85-116		%Rec	1.4	6/16/2016 12:31 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 12:35:00 PM
Project: Camp Hero
Lab ID: 1606467-003 **Matrix:** Soil
Client Sample ID: P113-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	3.1	J	0.47	0.76	3.8	mg/Kg-dry	1	7/7/2016 1:54 PM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Benzo(a)anthracene	0.00085	Y	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Benzo(a)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Benzo(b)fluoranthene	0.0019	Y	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Benzo(g,h,i)perylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Benzo(k)fluoranthene	0.00077	UY	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Chrysene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Fluoranthene	0.0013		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Phenanthrene	0.0011		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Pyrene	0.0019		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 7:30 PM
Surr: 2-Fluorobiphenyl	73.5			46-115		%Rec	1	7/14/2016 7:30 PM
Surr: Nitrobenzene-d5	95.8			44-125		%Rec	1	7/14/2016 7:30 PM
Surr: Terphenyl-d14	121			58-133		%Rec	1	7/14/2016 7:30 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00098	U	0.00042	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
1,3,5-Trimethylbenzene	0.00098	U	0.00032	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
Benzene	0.00098	U	0.00044	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
Ethylbenzene	0.00098	U	0.00036	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
Isopropylbenzene	0.00098	U	0.00031	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
Methyl tert-butyl ether [MTBE]	0.00098	U	0.00029	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
n-Butylbenzene	0.00098	U	0.00044	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
n-Propylbenzene	0.00098	U	0.00028	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
Naphthalene	0.00098	U	0.00083	0.00098	0.0081	mg/Kg-dry	1.41	6/16/2016 12:58 PM
p-Isopropyltoluene [p-Cymene]	0.00098	U	0.00043	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
sec-Butylbenzene	0.0016	U	0.0011	0.0016	0.0033	mg/Kg-dry	1.41	6/16/2016 12:58 PM
tert-Butylbenzene	0.00098	U	0.00089	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
Toluene	0.00098	U	0.00044	0.00098	0.0016	mg/Kg-dry	1.41	6/16/2016 12:58 PM
Xylene (Total)	0.0029	U	0.00074	0.0029	0.0049	mg/Kg-dry	1.41	6/16/2016 12:58 PM
Surr: 4-Bromofluorobenzene	90.2			79-119		%Rec	1.41	6/16/2016 12:58 PM
Surr: Dibromofluoromethane	98.3			78-119		%Rec	1.41	6/16/2016 12:58 PM
Surr: Toluene-d8	89.4			85-116		%Rec	1.41	6/16/2016 12:58 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 12:15:00 PM
Project: Camp Hero
Lab ID: 1606467-004 **Matrix:** Soil
Client Sample ID: P113-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	4.3		0.49	0.78	3.9	mg/Kg-dry	1	7/7/2016 1:24 PM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Acenaphthylene	0.0015		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Anthracene	0.0012		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Benzo(a)anthracene	0.0047	Y	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Benzo(a)pyrene	0.0037		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Benzo(b)fluoranthene	0.0097	Y	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Benzo(g,h,i)perylene	0.0023		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Benzo(k)fluoranthene	0.0016	Y	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Chrysene	0.0032		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Dibenzo(a,h)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Fluoranthene	0.0061		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Fluorene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Indeno(1,2,3-cd)pyrene	0.0019		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Phenanthrene	0.0045		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Pyrene	0.0084		0.00079	0.00079	0.00079	mg/Kg-dry	1	7/14/2016 7:57 PM
Surr: 2-Fluorobiphenyl	69.7			46-115		%Rec	1	7/14/2016 7:57 PM
Surr: Nitrobenzene-d5	82.2			44-125		%Rec	1	7/14/2016 7:57 PM
Surr: Terphenyl-d14	114			58-133		%Rec	1	7/14/2016 7:57 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.089	UQ	0.025	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
1,3,5-Trimethylbenzene	0.089	U	0.025	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
Benzene	0.089	U	0.024	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
Ethylbenzene	0.089	U	0.031	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
Isopropylbenzene	0.089	U	0.026	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
Methyl tert-butyl ether [MTBE]	0.089	U	0.036	0.089	0.30	mg/Kg-dry	125.4	6/18/2016 12:30 AM
n-Butylbenzene	0.089	U	0.030	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
n-Propylbenzene	0.089	U	0.033	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
Naphthalene	0.089	UZ	0.043	0.089	0.74	mg/Kg-dry	125.4	6/18/2016 12:30 AM
p-Isopropyltoluene [p-Cymene]	0.089	U	0.043	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
sec-Butylbenzene	0.089	U	0.029	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
tert-Butylbenzene	0.089	U	0.026	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
Toluene	0.089	U	0.031	0.089	0.15	mg/Kg-dry	125.4	6/18/2016 12:30 AM
Xylene (Total)	0.27	U	0.091	0.27	0.45	mg/Kg-dry	125.4	6/18/2016 12:30 AM
Surr: 4-Bromofluorobenzene	89.9			79-119		%Rec	125.4	6/18/2016 12:30 AM
Surr: Dibromofluoromethane	96.4			78-119		%Rec	125.4	6/18/2016 12:30 AM
Surr: Toluene-d8	88.8			85-116		%Rec	125.4	6/18/2016 12:30 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606467-005 **Matrix:** Soil
Client Sample ID: P113-SB02-04

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	2.2	J	0.47	0.76	3.8	mg/Kg-dry	1	7/7/2016 1:56 PM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Benzo(a)anthracene	0.00077	UY	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Benzo(a)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Benzo(b)fluoranthene	0.00077	UY	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Benzo(g,h,i)perylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Benzo(k)fluoranthene	0.00077	UY	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Chrysene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Phenanthrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/14/2016 8:25 PM
Surr: 2-Fluorobiphenyl	70.7			46-115		%Rec	1	7/14/2016 8:25 PM
Surr: Nitrobenzene-d5	85.8			44-125		%Rec	1	7/14/2016 8:25 PM
Surr: Terphenyl-d14	113			58-133		%Rec	1	7/14/2016 8:25 PM
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00059	U	0.00026	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
1,3,5-Trimethylbenzene	0.00059	U	0.00020	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
Benzene	0.00059	U	0.00027	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
Ethylbenzene	0.00059	U	0.00022	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
Isopropylbenzene	0.00059	U	0.00019	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
Methyl tert-butyl ether [MTBE]	0.00059	U	0.00018	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
n-Butylbenzene	0.00059	U	0.00027	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
n-Propylbenzene	0.00059	U	0.00017	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
Naphthalene	0.00059	U	0.00051	0.00059	0.0050	mg/Kg-dry	0.84	6/16/2016 1:24 PM
p-Isopropyltoluene [p-Cymene]	0.00059	U	0.00026	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
sec-Butylbenzene	0.00099	U	0.00067	0.00099	0.0020	mg/Kg-dry	0.84	6/16/2016 1:24 PM
tert-Butylbenzene	0.00059	U	0.00054	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
Toluene	0.00059	U	0.00027	0.00059	0.00099	mg/Kg-dry	0.84	6/16/2016 1:24 PM
Xylene (Total)	0.0018	U	0.00045	0.0018	0.0030	mg/Kg-dry	0.84	6/16/2016 1:24 PM
Surr: 4-Bromofluorobenzene	91.4			79-119		%Rec	0.84	6/16/2016 1:24 PM
Surr: Dibromofluoromethane	97.9			78-119		%Rec	0.84	6/16/2016 1:24 PM
Surr: Toluene-d8	90.1			85-116		%Rec	0.84	6/16/2016 1:24 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 12:10:00 PM
Project: Camp Hero
Lab ID: 1606467-006 **Matrix:** Soil
Client Sample ID: P113-SS03-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	7.4		0.55	0.89	4.5	mg/Kg-dry	1	7/7/2016 1:57 PM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00093	U	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Acenaphthylene	0.00093	U	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Anthracene	0.00093	U	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Benzo(a)anthracene	0.0029	Y	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Benzo(a)pyrene	0.0030		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Benzo(b)fluoranthene	0.010	Y	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Benzo(g,h,i)perylene	0.00093	U	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Benzo(k)fluoranthene	0.0014	Y	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Chrysene	0.0032		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Dibenzo(a,h)anthracene	0.00093	U	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Fluoranthene	0.0044		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Fluorene	0.00093	U	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Indeno(1,2,3-cd)pyrene	0.00093	U	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Phenanthrene	0.00093	U	0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Pyrene	0.0066		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/14/2016 8:52 PM
Surr: 2-Fluorobiphenyl	68.1			46-115		%Rec	1	7/14/2016 8:52 PM
Surr: Nitrobenzene-d5	81.2			44-125		%Rec	1	7/14/2016 8:52 PM
Surr: Terphenyl-d14	113			58-133		%Rec	1	7/14/2016 8:52 PM
Volatile Organic Compounds			**Method: 8260C-ME-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.083	U	0.023	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
1,3,5-Trimethylbenzene	0.083	U	0.024	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
Benzene	0.083	U	0.023	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
Ethylbenzene	0.083	U	0.029	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
Isopropylbenzene	0.083	U	0.024	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
Methyl tert-butyl ether [MTBE]	0.083	U	0.034	0.083	0.28	mg/Kg-dry	100.1	6/20/2016 3:00 PM
n-Butylbenzene	0.083	U	0.028	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
n-Propylbenzene	0.083	U	0.030	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
Naphthalene	0.083	UZ	0.040	0.083	0.70	mg/Kg-dry	100.1	6/20/2016 3:00 PM
p-Isopropyltoluene [p-Cymene]	0.083	U	0.040	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
sec-Butylbenzene	0.083	U	0.028	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
tert-Butylbenzene	0.083	U	0.024	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
Toluene	0.083	U	0.029	0.083	0.14	mg/Kg-dry	100.1	6/20/2016 3:00 PM
Xylene (Total)	0.25	U	0.085	0.25	0.42	mg/Kg-dry	100.1	6/20/2016 3:00 PM
Surr: 4-Bromofluorobenzene	93.6			79-119		%Rec	100.1	6/20/2016 3:00 PM
Surr: Dibromofluoromethane	99.8			78-119		%Rec	100.1	6/20/2016 3:00 PM
Surr: Toluene-d8	89.3			85-116		%Rec	100.1	6/20/2016 3:00 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	28		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 11:35:00 AM
Project:	Camp Hero		
Lab ID:	1606467-007	**Matrix:**	Soil
Client Sample ID:	H6-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.020	U	0.0091	0.020	0.10	mg/Kg-dry	1	7/21/2016 1:18 AM
Aroclor 1221	0.020	U	0.0090	0.020	0.10	mg/Kg-dry	1	7/21/2016 1:18 AM
Aroclor 1232	0.020	U	0.014	0.020	0.10	mg/Kg-dry	1	7/21/2016 1:18 AM
Aroclor 1242	0.020	U	0.011	0.020	0.10	mg/Kg-dry	1	7/21/2016 1:18 AM
Aroclor 1248	0.020	U	0.011	0.020	0.10	mg/Kg-dry	1	7/21/2016 1:18 AM
Aroclor 1254	0.020	U	0.013	0.020	0.10	mg/Kg-dry	1	7/21/2016 1:18 AM
Aroclor 1260	0.020	U	0.0088	0.020	0.10	mg/Kg-dry	1	7/21/2016 1:18 AM
Aroclor 1262	0.020	U	0.0088	0.020	0.10	mg/Kg-dry	1	7/21/2016 1:18 AM
Aroclor 1268	0.020	U	0.0074	0.020	0.10	mg/Kg-dry	1	7/21/2016 1:18 AM
Surr: Tetrachloro-m-xylene	16.3	Q		44-130		%Rec	1	7/21/2016 1:18 AM
Surr: Decachlorobiphenyl	17.3	Q		60-125		%Rec	1	7/21/2016 1:18 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	15		1.3	2.0	10	mg/Kg-dry	1	7/7/2016 1:58 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	67		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 11:30:00 AM
Project:	Camp Hero		
Lab ID:	1606467-008	**Matrix:**	Soil
Client Sample ID:	H6-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0083	U	0.0038	0.0083	0.041	mg/Kg-dry	1	7/7/2016 6:50 AM
Aroclor 1221	0.0083	U	0.0037	0.0083	0.041	mg/Kg-dry	1	7/7/2016 6:50 AM
Aroclor 1232	0.0083	U	0.0056	0.0083	0.041	mg/Kg-dry	1	7/7/2016 6:50 AM
Aroclor 1242	0.0083	U	0.0046	0.0083	0.041	mg/Kg-dry	1	7/7/2016 6:50 AM
Aroclor 1248	0.0083	U	0.0044	0.0083	0.041	mg/Kg-dry	1	7/7/2016 6:50 AM
Aroclor 1254	0.0083	U	0.0053	0.0083	0.041	mg/Kg-dry	1	7/7/2016 6:50 AM
Aroclor 1260	0.0083	U	0.0037	0.0083	0.041	mg/Kg-dry	1	7/7/2016 6:50 AM
Aroclor 1262	0.0083	U	0.0037	0.0083	0.041	mg/Kg-dry	1	7/7/2016 6:50 AM
Aroclor 1268	0.0083	U	0.0030	0.0083	0.041	mg/Kg-dry	1	7/7/2016 6:50 AM
Surr: Tetrachloro-m-xylene	80.7			44-130		%Rec	1	7/7/2016 6:50 AM
Surr: Decachlorobiphenyl	77.3			60-125		%Rec	1	7/7/2016 6:50 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	3.0	J	0.53	0.85	4.2	mg/Kg-dry	1	7/7/2016 2:00 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	22		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606467-009	**Matrix:**	Soil
Client Sample ID:	H6-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.030	U	0.013	0.030	0.15	mg/Kg-dry	1	7/7/2016 7:15 AM
Aroclor 1221	0.030	U	0.013	0.030	0.15	mg/Kg-dry	1	7/7/2016 7:15 AM
Aroclor 1232	0.030	U	0.020	0.030	0.15	mg/Kg-dry	1	7/7/2016 7:15 AM
Aroclor 1242	0.030	U	0.017	0.030	0.15	mg/Kg-dry	1	7/7/2016 7:15 AM
Aroclor 1248	0.030	U	0.016	0.030	0.15	mg/Kg-dry	1	7/7/2016 7:15 AM
Aroclor 1254	0.030	U	0.019	0.030	0.15	mg/Kg-dry	1	7/7/2016 7:15 AM
Aroclor 1260	0.030	U	0.013	0.030	0.15	mg/Kg-dry	1	7/7/2016 7:15 AM
Aroclor 1262	0.030	U	0.013	0.030	0.15	mg/Kg-dry	1	7/7/2016 7:15 AM
Aroclor 1268	0.030	U	0.011	0.030	0.15	mg/Kg-dry	1	7/7/2016 7:15 AM
Surr: Tetrachloro-m-xylene	44.7			44-130		%Rec	1	7/7/2016 7:15 AM
Surr: Decachlorobiphenyl	46.3	Q		60-125		%Rec	1	7/7/2016 7:15 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	7.5	J	1.8	2.9	15	mg/Kg-dry	1	7/7/2016 2:01 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	78		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 1:50:00 PM
Project: Camp Hero
Lab ID: 1606467-010 **Matrix:** Soil
Client Sample ID: WDS-SB10-08

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/7/2016 7:39 AM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/7/2016 7:39 AM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/7/2016 7:39 AM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	7/7/2016 7:39 AM
Aroclor 1248	0.0073	U	0.0038	0.0073	0.036	mg/Kg-dry	1	7/7/2016 7:39 AM
Aroclor 1254	0.0073	U	0.0046	0.0073	0.036	mg/Kg-dry	1	7/7/2016 7:39 AM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/7/2016 7:39 AM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/7/2016 7:39 AM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/7/2016 7:39 AM
Surr: Tetrachloro-m-xylene	76.6			44-130		%Rec	1	7/7/2016 7:39 AM
Surr: Decachlorobiphenyl	81.9			60-125		%Rec	1	7/7/2016 7:39 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	7,300		56	150	370	mg/Kg-dry	100	7/14/2016 3:10 PM
Antimony	2.7		0.28	0.37	0.74	mg/Kg-dry	1	7/14/2016 2:19 PM
Arsenic	1.1	J	0.54	0.74	1.5	mg/Kg-dry	1	7/14/2016 2:19 PM
Barium	21		0.22	3.7	7.4	mg/Kg-dry	1	7/14/2016 2:19 PM
Beryllium	0.037	U	0.0094	0.037	0.19	mg/Kg-dry	1	7/14/2016 2:19 PM
Cadmium	0.037	U	0.024	0.037	0.19	mg/Kg-dry	1	7/14/2016 2:19 PM
Calcium	650		2.2	7.4	37	mg/Kg-dry	1	7/14/2016 2:19 PM
Chromium	9.7		0.061	0.30	0.37	mg/Kg-dry	1	7/14/2016 2:19 PM
Cobalt	2.9	G	0.067	0.19	0.74	mg/Kg-dry	1	7/14/2016 2:19 PM
Copper	24		0.31	0.74	3.7	mg/Kg-dry	1	7/14/2016 2:19 PM
Iron	9,200		230	370	1,100	mg/Kg-dry	100	7/14/2016 3:10 PM
Lead	2.1	J	0.46	0.74	3.7	mg/Kg-dry	1	7/14/2016 2:19 PM
Magnesium	1,200		2.6	3.7	37	mg/Kg-dry	1	7/14/2016 2:19 PM
Manganese	150		0.14	0.19	0.74	mg/Kg-dry	1	7/14/2016 2:19 PM
Nickel	4.9		0.21	0.74	3.7	mg/Kg-dry	1	7/14/2016 2:19 PM
Potassium	800		1.7	7.4	15	mg/Kg-dry	1	7/14/2016 2:19 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/14/2016 2:19 PM
Silver	0.19	U	0.061	0.19	0.74	mg/Kg-dry	1	7/14/2016 2:19 PM
Sodium	78		1.5	3.7	37	mg/Kg-dry	1	7/14/2016 2:19 PM
Vanadium	14		0.094	0.74	1.9	mg/Kg-dry	1	7/14/2016 2:19 PM
Zinc	10		0.29	0.37	3.7	mg/Kg-dry	1	7/14/2016 2:19 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.087	J	0.036	0.037	0.15	mg/Kg-dry	10	7/15/2016 5:07 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
1,2-Dichlorobenzene	0.018	U	0.0079	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
1,4-Dichlorobenzene	0.018	U	0.0059	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 1:50:00 PM
Project: Camp Hero
Lab ID: 1606467-010 **Matrix:** Soil
Client Sample ID: WDS-SB10-08

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
2,4-Dichlorophenol	0.092	U	0.032	0.092	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
2,4-Dimethyl phenol	0.092	U	0.035	0.092	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.91	mg/Kg-dry	1	6/25/2016 4:55 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
2-Chlorophenol	0.092	U	0.038	0.092	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
2-Methylphenol (o-Cresol)	0.092	U	0.040	0.092	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
2-Nitroaniline	0.018	U	0.0089	0.018	0.35	mg/Kg-dry	1	6/25/2016 4:55 PM
2-Nitrophenol	0.092	U	0.045	0.092	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
3,3´-Dichlorobenzidine	0.73	UQX	0.47	0.73	1.1	mg/Kg-dry	1	6/25/2016 4:55 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/25/2016 4:55 PM
3/4-Methylphenol [m/p-Cresol]	0.092	U	0.065	0.092	0.35	mg/Kg-dry	1	6/25/2016 4:55 PM
4,6-Dinitro-2-methylphenol	0.092	U	0.053	0.092	0.35	mg/Kg-dry	1	6/25/2016 4:55 PM
4-Bromophenyl phenyl ether	0.092	U	0.047	0.092	0.22	mg/Kg-dry	1	6/25/2016 4:55 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
4-Chloroaniline [p-Chloroaniline]	0.092	U	0.028	0.092	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
4-Nitroaniline	0.092	U	0.026	0.092	0.35	mg/Kg-dry	1	6/25/2016 4:55 PM
4-Nitrophenol	0.37	UY	0.26	0.37	0.91	mg/Kg-dry	1	6/25/2016 4:55 PM
Benzoic acid	0.37	UYZ	0.15	0.37	1.1	mg/Kg-dry	1	6/25/2016 4:55 PM
Benzyl alcohol	0.018	U	0.0088	0.018	0.73	mg/Kg-dry	1	6/25/2016 4:55 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0084	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.032	0.037	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Carbazole	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Di-n-octyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Dibenzofuran	0.018	U	0.0093	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Hexachlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	6/25/2016 4:55 PM
Hexachloroethane	0.018	U	0.0085	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Isophorone	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
N-Nitrosodi-n-propylamine	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
N-Nitrosodimethylamine	0.018	UY	0.0089	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
N-Nitrosodiphenylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Nitrobenzene	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Pentachlorophenol	0.092	U	0.069	0.092	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM
Phenol	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	6/25/2016 4:55 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 1:50:00 PM
Project: Camp Hero
Lab ID: 1606467-010 **Matrix:** Soil
Client Sample ID: WDS-SB10-08

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	41.6			39-132		%Rec	1	6/25/2016 4:55 PM
Surr: 2-Fluorobiphenyl	39.7	Q		44-115		%Rec	1	6/25/2016 4:55 PM
Surr: 2-Fluorophenol	35.6	J		35-115		%Rec	1	6/25/2016 4:55 PM
Surr: Nitrobenzene-d5	40.3			37-122		%Rec	1	6/25/2016 4:55 PM
Surr: Phenol-d5	34.4	J		33-122		%Rec	1	6/25/2016 4:55 PM
Surr: Terphenyl-d14	39.9	Q		54-127		%Rec	1	6/25/2016 4:55 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
2-Methylnaphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Benzo(a)anthracene	0.00074	UY	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Benzo(a)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Benzo(b)fluoranthene	0.00074	UY	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Benzo(g,h,i)perylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Benzo(k)fluoranthene	0.00074	UY	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Chrysene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Fluorene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Indeno(1,2,3-cd)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Naphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Phenanthrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/14/2016 9:19 PM
Surr: 2-Fluorobiphenyl	78.2			46-115		%Rec	1	7/14/2016 9:19 PM
Surr: Nitrobenzene-d5	91.5			44-125		%Rec	1	7/14/2016 9:19 PM
Surr: Terphenyl-d14	115			58-133		%Rec	1	7/14/2016 9:19 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00052	U	0.00025	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
1,1,1-Trichloroethane	0.00052	U	0.00018	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
1,1,2,2-Tetrachloroethane	0.00052	U	0.00046	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
1,1,2-Trichloroethane	0.00052	U	0.00034	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
1,1-Dichloroethane	0.00052	U	0.00013	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
1,1-Dichloroethene	0.00052	U	0.00018	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
1,2,3-Trichloropropane	0.00052	U	0.00030	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
1,2-Dibromo-3-chloropropane	0.0017	U	0.0012	0.0017	0.0043	mg/Kg-dry	0.77	6/17/2016 10:52 AM
1,2-Dibromoethane	0.00052	U	0.00039	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
1,2-Dichloroethane	0.00052	U	0.00012	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
1,2-Dichloropropane	0.00052	U	0.00024	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
2-Butanone [MEK]	0.0086	U	0.0051	0.0086	0.017	mg/Kg-dry	0.77	6/17/2016 10:52 AM
2-Hexanone	0.0017	U	0.00054	0.0017	0.0043	mg/Kg-dry	0.77	6/17/2016 10:52 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 1:50:00 PM
Project: Camp Hero
Lab ID: 1606467-010 **Matrix:** Soil
Client Sample ID: WDS-SB10-08

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Acetone	0.060	BYQ	0.00079	0.0017	0.0086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Benzene	0.00052	U	0.00023	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Bromodichloromethane	0.00052	U	0.00017	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Bromoform	0.00052	UYQ	0.00028	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Carbon disulfide	0.00052	U	0.00016	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Carbon tetrachloride	0.00052	U	0.00018	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Chlorobenzene	0.00052	U	0.00016	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Chlorodibromomethane	0.00052	UQ	0.00030	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Chloroethane	0.00086	U	0.00065	0.00086	0.0017	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Chloroform	0.00052	U	0.00041	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Chloromethane	0.00052	U	0.00030	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
cis-1,2-Dichloroethene	0.00052	U	0.00048	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
cis-1,3-Dichloropropene	0.00052	U	0.00014	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Dichlorodifluoromethane [Freon-12]	0.00052	U	0.00033	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Ethylbenzene	0.00052	U	0.00019	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Methylene chloride	0.0029	JBQ	0.00091	0.0017	0.0043	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Styrene	0.00052	U	0.00020	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Tetrachloroethene	0.00052	U	0.00028	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Toluene	0.00052	U	0.00023	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
trans-1,2-Dichloroethene	0.00052	U	0.00016	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
trans-1,3-Dichloropropene	0.00052	U	0.00020	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Trichloroethene	0.00052	U	0.00033	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Trichlorofluoromethane [Freon-11]	0.00052	U	0.00019	0.00052	0.00086	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Vinyl acetate	0.00052	UY	0.00041	0.00052	0.0043	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Vinyl chloride	0.00052	U	0.00027	0.00052	0.00069	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Xylene (Total)	0.0016	U	0.00039	0.0016	0.0026	mg/Kg-dry	0.77	6/17/2016 10:52 AM
Surr: 4-Bromofluorobenzene	88.0			79-119		%Rec	0.77	6/17/2016 10:52 AM
Surr: Dibromofluoromethane	99.3			78-119		%Rec	0.77	6/17/2016 10:52 AM
Surr: Toluene-d8	89.2			85-116		%Rec	0.77	6/17/2016 10:52 AM

Percent Moisture		Method: ASTM-D2216				Analyst: NS1
Percent Moisture	11	1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 2:30:00 PM
Project:	Camp Hero		
Lab ID:	1606467-011	**Matrix:**	Soil
Client Sample ID:	H4-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0082	U	0.0037	0.0082	0.040	mg/Kg-dry	1	7/7/2016 8:03 AM
Aroclor 1221	0.0082	U	0.0037	0.0082	0.040	mg/Kg-dry	1	7/7/2016 8:03 AM
Aroclor 1232	0.0082	U	0.0055	0.0082	0.040	mg/Kg-dry	1	7/7/2016 8:03 AM
Aroclor 1242	0.0082	U	0.0046	0.0082	0.040	mg/Kg-dry	1	7/7/2016 8:03 AM
Aroclor 1248	0.0082	U	0.0043	0.0082	0.040	mg/Kg-dry	1	7/7/2016 8:03 AM
Aroclor 1254	0.0082	U	0.0052	0.0082	0.040	mg/Kg-dry	1	7/7/2016 8:03 AM
Aroclor 1260	0.0082	U	0.0036	0.0082	0.040	mg/Kg-dry	1	7/7/2016 8:03 AM
Aroclor 1262	0.0082	U	0.0036	0.0082	0.040	mg/Kg-dry	1	7/7/2016 8:03 AM
Aroclor 1268	0.0082	U	0.0030	0.0082	0.040	mg/Kg-dry	1	7/7/2016 8:03 AM
Surr: Tetrachloro-m-xylene	68.1			44-130		%Rec	1	7/7/2016 8:03 AM
Surr: Decachlorobiphenyl	68.3			60-125		%Rec	1	7/7/2016 8:03 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	5.7		0.48	0.77	3.9	mg/Kg-dry	1	7/7/2016 2:02 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 2:10:00 PM
Project:	Camp Hero		
Lab ID:	1606467-012	**Matrix:**	Soil
Client Sample ID:	H4-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0080	U	0.0036	0.0080	0.039	mg/Kg-dry	1	7/7/2016 8:28 AM
Aroclor 1221	0.0080	U	0.0036	0.0080	0.039	mg/Kg-dry	1	7/7/2016 8:28 AM
Aroclor 1232	0.0080	U	0.0054	0.0080	0.039	mg/Kg-dry	1	7/7/2016 8:28 AM
Aroclor 1242	0.0080	U	0.0044	0.0080	0.039	mg/Kg-dry	1	7/7/2016 8:28 AM
Aroclor 1248	0.0080	U	0.0042	0.0080	0.039	mg/Kg-dry	1	7/7/2016 8:28 AM
Aroclor 1254	0.0080	U	0.0050	0.0080	0.039	mg/Kg-dry	1	7/7/2016 8:28 AM
Aroclor 1260	0.0080	U	0.0035	0.0080	0.039	mg/Kg-dry	1	7/7/2016 8:28 AM
Aroclor 1262	0.0080	U	0.0035	0.0080	0.039	mg/Kg-dry	1	7/7/2016 8:28 AM
Aroclor 1268	0.0080	U	0.0029	0.0080	0.039	mg/Kg-dry	1	7/7/2016 8:28 AM
Surr: Tetrachloro-m-xylene	67.6			44-130		%Rec	1	7/7/2016 8:28 AM
Surr: Decachlorobiphenyl	71.7			60-125		%Rec	1	7/7/2016 8:28 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	47		0.47	0.76	3.8	mg/Kg-dry	1	7/7/2016 2:04 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 2:15:00 PM
Project:	Camp Hero		
Lab ID:	1606467-013	**Matrix:**	Soil
Client Sample ID:	H4-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/7/2016 8:52 AM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/7/2016 8:52 AM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/7/2016 8:52 AM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	7/7/2016 8:52 AM
Aroclor 1248	0.0073	U	0.0038	0.0073	0.036	mg/Kg-dry	1	7/7/2016 8:52 AM
Aroclor 1254	0.0073	U	0.0046	0.0073	0.036	mg/Kg-dry	1	7/7/2016 8:52 AM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/7/2016 8:52 AM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/7/2016 8:52 AM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/7/2016 8:52 AM
Surr: Tetrachloro-m-xylene	81.8			44-130		%Rec	1	7/7/2016 8:52 AM
Surr: Decachlorobiphenyl	84.0			60-125		%Rec	1	7/7/2016 8:52 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	3.2	J	0.46	0.74	3.7	mg/Kg-dry	1	6/30/2016 12:32 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 1:55:00 PM
Project:	Camp Hero		
Lab ID:	1606467-014	**Matrix:**	Soil
Client Sample ID:	H4-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0079	U	0.0036	0.0079	0.039	mg/Kg-dry	1	7/7/2016 10:30 AM
Aroclor 1221	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	7/7/2016 10:30 AM
Aroclor 1232	0.0079	U	0.0053	0.0079	0.039	mg/Kg-dry	1	7/7/2016 10:30 AM
Aroclor 1242	0.0079	U	0.0044	0.0079	0.039	mg/Kg-dry	1	7/7/2016 10:30 AM
Aroclor 1248	0.0079	U	0.0042	0.0079	0.039	mg/Kg-dry	1	7/7/2016 10:30 AM
Aroclor 1254	0.0079	U	0.0050	0.0079	0.039	mg/Kg-dry	1	7/7/2016 10:30 AM
Aroclor 1260	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	7/7/2016 10:30 AM
Aroclor 1262	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	7/7/2016 10:30 AM
Aroclor 1268	0.0079	U	0.0029	0.0079	0.039	mg/Kg-dry	1	7/7/2016 10:30 AM
Surr: Tetrachloro-m-xylene	66.5			44-130		%Rec	1	7/7/2016 10:30 AM
Surr: Decachlorobiphenyl	66.6			60-125		%Rec	1	7/7/2016 10:30 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	4.6		0.50	0.80	4.0	mg/Kg-dry	1	6/30/2016 12:33 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 2:00:00 PM
Project:	Camp Hero		
Lab ID:	1606467-015	**Matrix:**	Soil
Client Sample ID:	H4-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0081	U	0.0037	0.0081	0.040	mg/Kg-dry	1	7/7/2016 10:55 AM
Aroclor 1221	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	7/7/2016 10:55 AM
Aroclor 1232	0.0081	U	0.0055	0.0081	0.040	mg/Kg-dry	1	7/7/2016 10:55 AM
Aroclor 1242	0.0081	U	0.0045	0.0081	0.040	mg/Kg-dry	1	7/7/2016 10:55 AM
Aroclor 1248	0.0081	U	0.0043	0.0081	0.040	mg/Kg-dry	1	7/7/2016 10:55 AM
Aroclor 1254	0.0081	U	0.0051	0.0081	0.040	mg/Kg-dry	1	7/7/2016 10:55 AM
Aroclor 1260	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	7/7/2016 10:55 AM
Aroclor 1262	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	7/7/2016 10:55 AM
Aroclor 1268	0.0081	U	0.0030	0.0081	0.040	mg/Kg-dry	1	7/7/2016 10:55 AM
Surr: Tetrachloro-m-xylene	71.3			44-130		%Rec	1	7/7/2016 10:55 AM
Surr: Decachlorobiphenyl	79.8			60-125		%Rec	1	7/7/2016 10:55 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	2.8	J	0.48	0.77	3.9	mg/Kg-dry	1	6/30/2016 12:35 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	18		1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 3:40:00 PM
Project: Camp Hero
Lab ID: 1606467-016 **Matrix:** Soil
Client Sample ID: H18-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0071	U	0.0032	0.0071	0.035	mg/Kg-dry	1	7/7/2016 11:19 AM
Aroclor 1221	0.0071	U	0.0032	0.0071	0.035	mg/Kg-dry	1	7/7/2016 11:19 AM
Aroclor 1232	0.0071	U	0.0048	0.0071	0.035	mg/Kg-dry	1	7/7/2016 11:19 AM
Aroclor 1242	0.0071	U	0.0040	0.0071	0.035	mg/Kg-dry	1	7/7/2016 11:19 AM
Aroclor 1248	0.0071	U	0.0038	0.0071	0.035	mg/Kg-dry	1	7/7/2016 11:19 AM
Aroclor 1254	0.0071	U	0.0045	0.0071	0.035	mg/Kg-dry	1	7/7/2016 11:19 AM
Aroclor 1260	0.0071	U	0.0031	0.0071	0.035	mg/Kg-dry	1	7/7/2016 11:19 AM
Aroclor 1262	0.0071	U	0.0031	0.0071	0.035	mg/Kg-dry	1	7/7/2016 11:19 AM
Aroclor 1268	0.0071	U	0.0026	0.0071	0.035	mg/Kg-dry	1	7/7/2016 11:19 AM
Surr: Tetrachloro-m-xylene	61.4			44-130		%Rec	1	7/7/2016 11:19 AM
Surr: Decachlorobiphenyl	64.9			60-125		%Rec	1	7/7/2016 11:19 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,900		52	140	350	mg/Kg-dry	100	7/14/2016 3:12 PM
Antimony	1.9		0.26	0.35	0.70	mg/Kg-dry	1	7/14/2016 2:20 PM
Arsenic	2.0		0.50	0.70	1.4	mg/Kg-dry	1	7/14/2016 2:20 PM
Barium	12		0.21	3.5	7.0	mg/Kg-dry	1	7/14/2016 2:20 PM
Beryllium	0.035	U	0.0088	0.035	0.17	mg/Kg-dry	1	7/14/2016 2:20 PM
Cadmium	0.033	J	0.023	0.035	0.17	mg/Kg-dry	1	7/14/2016 2:20 PM
Calcium	870		2.0	7.0	35	mg/Kg-dry	1	7/14/2016 2:20 PM
Chromium	8.0		0.057	0.28	0.35	mg/Kg-dry	1	7/14/2016 2:20 PM
Cobalt	2.1	G	0.063	0.17	0.70	mg/Kg-dry	1	7/14/2016 2:20 PM
Copper	18		0.29	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:20 PM
Iron	7,500		220	350	1,000	mg/Kg-dry	100	7/14/2016 3:12 PM
Lead	9.2		0.43	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:20 PM
Magnesium	1,000		2.4	3.5	35	mg/Kg-dry	1	7/14/2016 2:20 PM
Manganese	130		0.13	0.17	0.70	mg/Kg-dry	1	7/14/2016 2:20 PM
Nickel	3.8		0.20	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:20 PM
Potassium	570		1.6	7.0	14	mg/Kg-dry	1	7/14/2016 2:20 PM
Selenium	1.0	U	0.81	1.0	1.4	mg/Kg-dry	1	7/14/2016 2:20 PM
Silver	0.17	U	0.057	0.17	0.70	mg/Kg-dry	1	7/14/2016 2:20 PM
Sodium	72		1.4	3.5	35	mg/Kg-dry	1	7/14/2016 2:20 PM
Vanadium	12		0.088	0.70	1.7	mg/Kg-dry	1	7/14/2016 2:20 PM
Zinc	11		0.27	0.35	3.5	mg/Kg-dry	1	7/14/2016 2:20 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.050	J	0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 5:08 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
1,2-Dichlorobenzene	0.018	U	0.0076	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
1,3-Dichlorobenzene	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
1,4-Dichlorobenzene	0.018	U	0.0057	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
2,4,5-Trichlorophenol	0.035	U	0.017	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 3:40:00 PM
Project: Camp Hero
Lab ID: 1606467-016 **Matrix:** Soil
Client Sample ID: H18-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.035	U	0.020	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
2,4-Dichlorophenol	0.088	U	0.030	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
2,4-Dimethyl phenol	0.088	U	0.034	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.88	mg/Kg-dry	1	6/25/2016 6:09 PM
2,4-Dinitrotoluene	0.018	U	0.015	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
2-Chlorophenol	0.088	U	0.037	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
2-Methylphenol (o-Cresol)	0.088	U	0.038	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
2-Nitroaniline	0.018	U	0.0086	0.018	0.34	mg/Kg-dry	1	6/25/2016 6:09 PM
2-Nitrophenol	0.088	U	0.044	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
3,3´-Dichlorobenzidine	0.71	UQ	0.45	0.71	1.1	mg/Kg-dry	1	6/25/2016 6:09 PM
3-Nitroaniline	0.018	U	0.012	0.018	0.34	mg/Kg-dry	1	6/25/2016 6:09 PM
3/4-Methylphenol [m/p-Cresol]	0.088	U	0.063	0.088	0.34	mg/Kg-dry	1	6/25/2016 6:09 PM
4,6-Dinitro-2-methylphenol	0.088	U	0.051	0.088	0.34	mg/Kg-dry	1	6/25/2016 6:09 PM
4-Bromophenyl phenyl ether	0.088	U	0.045	0.088	0.21	mg/Kg-dry	1	6/25/2016 6:09 PM
4-Chloro-3-methylphenol	0.035	U	0.018	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
4-Chloroaniline [p-Chloroaniline]	0.088	U	0.027	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
4-Nitroaniline	0.088	U	0.025	0.088	0.34	mg/Kg-dry	1	6/25/2016 6:09 PM
4-Nitrophenol	0.35	UY	0.25	0.35	0.88	mg/Kg-dry	1	6/25/2016 6:09 PM
Benzoic acid	0.35	UYZ	0.14	0.35	1.1	mg/Kg-dry	1	6/25/2016 6:09 PM
Benzyl alcohol	0.018	U	0.0085	0.018	0.70	mg/Kg-dry	1	6/25/2016 6:09 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Bis(2-chloroethyl) ether	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0081	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Bis(2-ethylhexyl) phthalate	0.035	U	0.031	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Butyl benzyl phthalate	0.035	U	0.021	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Carbazole	0.018	J	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Di-n-butyl phthalate	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Dibenzofuran	0.018	U	0.0090	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Hexachlorobenzene	0.018	U	0.0096	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.053	mg/Kg-dry	1	6/25/2016 6:09 PM
Hexachloroethane	0.018	U	0.0081	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Isophorone	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
N-Nitrosodi-n-propylamine	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
N-Nitrosodimethylamine	0.018	UY	0.0086	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
N-Nitrosodiphenylamine	0.018	U	0.0085	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Pentachlorophenol	0.088	U	0.066	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Phenol	0.088	U	0.038	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:09 PM
Surr: 2,4,6-Tribromophenol	52.0			39-132		%Rec	1	6/25/2016 6:09 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 3:40:00 PM
Project: Camp Hero
Lab ID: 1606467-016 **Matrix:** Soil
Client Sample ID: H18-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	46.6			44-115		%Rec	1	6/25/2016 6:09 PM
Surr: 2-Fluorophenol	41.8			35-115		%Rec	1	6/25/2016 6:09 PM
Surr: Nitrobenzene-d5	46.6			37-122		%Rec	1	6/25/2016 6:09 PM
Surr: Phenol-d5	43.5			33-122		%Rec	1	6/25/2016 6:09 PM
Surr: Terphenyl-d14	48.6	Q		54-127		%Rec	1	6/25/2016 6:09 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0063	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 12:08 PM
2-Methylnaphthalene	0.0060	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 12:08 PM
Acenaphthene	0.015	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 12:08 PM
Acenaphthylene	0.0023	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 12:08 PM
Anthracene	0.035		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Benzo(a)anthracene	0.12		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Benzo(a)pyrene	0.10		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Benzo(b)fluoranthene	0.14		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Benzo(g,h,i)perylene	0.055		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Benzo(k)fluoranthene	0.065		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Chrysene	0.12		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Dibenzo(a,h)anthracene	0.017		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 12:08 PM
Fluoranthene	0.30		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Fluorene	0.018	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 12:08 PM
Indeno(1,2,3-cd)pyrene	0.066		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Naphthalene	0.0053		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 12:08 PM
Phenanthrene	0.18		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Pyrene	0.23		0.0072	0.0072	0.0072	mg/Kg-dry	10	7/27/2016 6:45 PM
Surr: 2-Fluorobiphenyl	85.1			46-115		%Rec	1	7/22/2016 12:08 PM
Surr: Nitrobenzene-d5	93.7			44-125		%Rec	1	7/22/2016 12:08 PM
Surr: Terphenyl-d14	95.7			58-133		%Rec	1	7/22/2016 12:08 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00069	U	0.00033	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
1,1,1-Trichloroethane	0.00069	U	0.00024	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
1,1,2,2-Tetrachloroethane	0.00069	U	0.00061	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
1,1,2-Trichloroethane	0.00069	U	0.00045	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
1,1-Dichloroethane	0.00069	U	0.00017	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
1,1-Dichloroethene	0.00069	U	0.00024	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
1,2,3-Trichloropropane	0.00069	U	0.00041	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
1,2-Dibromo-3-chloropropane	0.0023	U	0.0016	0.0023	0.0058	mg/Kg-dry	1.07	6/16/2016 2:44 PM
1,2-Dibromoethane	0.00069	U	0.00052	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
1,2-Dichloroethane	0.00069	U	0.00016	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
1,2-Dichloropropane	0.00069	U	0.00032	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
2-Butanone [MEK]	0.012	UQ	0.0069	0.012	0.023	mg/Kg-dry	1.07	6/16/2016 2:44 PM
2-Hexanone	0.0023	U	0.00072	0.0023	0.0058	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Acetone	0.096	BY Q	0.0011	0.0023	0.012	mg/Kg-dry	1.07	6/16/2016 2:44 PM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 3:40:00 PM
Project:	Camp Hero		
Lab ID:	1606467-016	**Matrix:**	Soil
Client Sample ID:	H18-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00069	U	0.00031	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Bromodichloromethane	0.00069	U	0.00023	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Bromoform	0.00069	UYQ	0.00038	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Carbon disulfide	0.00069	U	0.00021	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Carbon tetrachloride	0.00069	U	0.00025	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Chlorobenzene	0.00069	U	0.00022	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Chlorodibromomethane	0.00069	UQ	0.00040	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Chloroethane	0.0012	U	0.00087	0.0012	0.0023	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Chloroform	0.00069	U	0.00055	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Chloromethane	0.00069	U	0.00040	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
cis-1,2-Dichloroethene	0.00069	U	0.00065	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
cis-1,3-Dichloropropene	0.00069	U	0.00019	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Dichlorodifluoromethane [Freon-12]	0.00069	U	0.00044	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Ethylbenzene	0.00069	U	0.00026	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Methylene chloride	0.0036	JBYQ	0.0012	0.0023	0.0058	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Styrene	0.00069	U	0.00026	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Tetrachloroethene	0.00069	U	0.00037	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Toluene	0.00069	U	0.00031	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
trans-1,2-Dichloroethene	0.00069	U	0.00022	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
trans-1,3-Dichloropropene	0.00069	U	0.00026	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Trichloroethene	0.00069	U	0.00044	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Trichlorofluoromethane [Freon-11]	0.00069	U	0.00026	0.00069	0.0012	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Vinyl acetate	0.00069	UY	0.00055	0.00069	0.0058	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Vinyl chloride	0.00069	U	0.00036	0.00069	0.00092	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Xylene (Total)	0.0021	U	0.00053	0.0021	0.0035	mg/Kg-dry	1.07	6/16/2016 2:44 PM
Surr: 4-Bromofluorobenzene	86.9			79-119		%Rec	1.07	6/16/2016 2:44 PM
Surr: Dibromofluoromethane	104			78-119		%Rec	1.07	6/16/2016 2:44 PM
Surr: Toluene-d8	89.2			85-116		%Rec	1.07	6/16/2016 2:44 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	7.3	1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 3:40:00 PM
Project: Camp Hero
Lab ID: 1606467-017 **Matrix:** Soil
Client Sample ID: H18-SS01-01 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/7/2016 11:44 AM
Aroclor 1221	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/7/2016 11:44 AM
Aroclor 1232	0.0072	U	0.0048	0.0072	0.036	mg/Kg-dry	1	7/7/2016 11:44 AM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.036	mg/Kg-dry	1	7/7/2016 11:44 AM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.036	mg/Kg-dry	1	7/7/2016 11:44 AM
Aroclor 1254	0.0072	U	0.0046	0.0072	0.036	mg/Kg-dry	1	7/7/2016 11:44 AM
Aroclor 1260	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/7/2016 11:44 AM
Aroclor 1262	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/7/2016 11:44 AM
Aroclor 1268	0.0072	U	0.0026	0.0072	0.036	mg/Kg-dry	1	7/7/2016 11:44 AM
Surr: Tetrachloro-m-xylene	50.1			44-130		%Rec	1	7/7/2016 11:44 AM
Surr: Decachlorobiphenyl	56.8	Q		60-125		%Rec	1	7/7/2016 11:44 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	4,900		54	140	360	mg/Kg-dry	100	7/14/2016 3:13 PM
Antimony	1.5		0.27	0.36	0.72	mg/Kg-dry	1	7/14/2016 2:22 PM
Arsenic	1.4	J	0.52	0.72	1.4	mg/Kg-dry	1	7/14/2016 2:22 PM
Barium	13		0.21	3.6	7.2	mg/Kg-dry	1	7/14/2016 2:22 PM
Beryllium	0.036	U	0.0091	0.036	0.18	mg/Kg-dry	1	7/14/2016 2:22 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/14/2016 2:22 PM
Calcium	790		2.1	7.2	36	mg/Kg-dry	1	7/14/2016 2:22 PM
Chromium	6.7		0.059	0.29	0.36	mg/Kg-dry	1	7/14/2016 2:22 PM
Cobalt	1.7	G	0.065	0.18	0.72	mg/Kg-dry	1	7/14/2016 2:22 PM
Copper	15		0.30	0.72	3.6	mg/Kg-dry	1	7/14/2016 2:22 PM
Iron	6,000		230	360	1,100	mg/Kg-dry	100	7/14/2016 3:13 PM
Lead	2.7	J	0.45	0.72	3.6	mg/Kg-dry	1	7/14/2016 2:22 PM
Magnesium	1,000		2.5	3.6	36	mg/Kg-dry	1	7/14/2016 2:22 PM
Manganese	100		0.13	0.18	0.72	mg/Kg-dry	1	7/14/2016 2:22 PM
Nickel	3.2	J	0.20	0.72	3.6	mg/Kg-dry	1	7/14/2016 2:22 PM
Potassium	610		1.7	7.2	14	mg/Kg-dry	1	7/14/2016 2:22 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/14/2016 2:22 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/14/2016 2:22 PM
Sodium	71		1.5	3.6	36	mg/Kg-dry	1	7/14/2016 2:22 PM
Vanadium	9.6		0.091	0.72	1.8	mg/Kg-dry	1	7/14/2016 2:22 PM
Zinc	8.5		0.28	0.36	3.6	mg/Kg-dry	1	7/14/2016 2:22 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.035	J	0.033	0.034	0.14	mg/Kg-dry	10	7/15/2016 5:09 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
1,2-Dichlorobenzene	0.018	U	0.0077	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
1,3-Dichlorobenzene	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
1,4-Dichlorobenzene	0.018	U	0.0057	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 3:40:00 PM
Project: Camp Hero
Lab ID: 1606467-017 **Matrix:** Soil
Client Sample ID: H18-SS01-01 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
2,4-Dichlorophenol	0.089	U	0.031	0.089	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
2,4-Dimethyl phenol	0.089	U	0.034	0.089	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.89	mg/Kg-dry	1	6/25/2016 6:34 PM
2,4-Dinitrotoluene	0.018	U	0.015	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
2-Chlorophenol	0.089	U	0.037	0.089	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
2-Methylphenol (o-Cresol)	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
2-Nitroaniline	0.018	U	0.0087	0.018	0.34	mg/Kg-dry	1	6/25/2016 6:34 PM
2-Nitrophenol	0.089	U	0.044	0.089	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
3,3´-Dichlorobenzidine	0.71	UQ	0.45	0.71	1.1	mg/Kg-dry	1	6/25/2016 6:34 PM
3-Nitroaniline	0.018	U	0.012	0.018	0.34	mg/Kg-dry	1	6/25/2016 6:34 PM
3/4-Methylphenol [m/p-Cresol]	0.089	U	0.063	0.089	0.34	mg/Kg-dry	1	6/25/2016 6:34 PM
4,6-Dinitro-2-methylphenol	0.089	U	0.051	0.089	0.34	mg/Kg-dry	1	6/25/2016 6:34 PM
4-Bromophenyl phenyl ether	0.089	U	0.045	0.089	0.21	mg/Kg-dry	1	6/25/2016 6:34 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
4-Chloroaniline [p-Chloroaniline]	0.089	U	0.027	0.089	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
4-Nitroaniline	0.089	U	0.026	0.089	0.34	mg/Kg-dry	1	6/25/2016 6:34 PM
4-Nitrophenol	0.36	UY	0.26	0.36	0.89	mg/Kg-dry	1	6/25/2016 6:34 PM
Benzoic acid	0.36	UYZ	0.14	0.36	1.1	mg/Kg-dry	1	6/25/2016 6:34 PM
Benzyl alcohol	0.018	U	0.0086	0.018	0.70	mg/Kg-dry	1	6/25/2016 6:34 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0081	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.031	0.036	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Carbazole	0.016	J	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Dibenzofuran	0.018	U	0.0091	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Hexachlorobenzene	0.018	U	0.0096	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.053	mg/Kg-dry	1	6/25/2016 6:34 PM
Hexachloroethane	0.018	U	0.0082	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Isophorone	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
N-Nitrosodi-n-propylamine	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
N-Nitrosodimethylamine	0.018	UY	0.0087	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
N-Nitrosodiphenylamine	0.018	U	0.0086	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Pentachlorophenol	0.089	U	0.067	0.089	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Phenol	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	6/25/2016 6:34 PM
Surr: 2,4,6-Tribromophenol	79.2			39-132		%Rec	1	6/25/2016 6:34 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 3:40:00 PM
Project: Camp Hero
Lab ID: 1606467-017 **Matrix:** Soil
Client Sample ID: H18-SS01-01 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	70.6			44-115		%Rec	1	6/25/2016 6:34 PM
Surr: 2-Fluorophenol	68.9			35-115		%Rec	1	6/25/2016 6:34 PM
Surr: Nitrobenzene-d5	74.0			37-122		%Rec	1	6/25/2016 6:34 PM
Surr: Phenol-d5	68.5			33-122		%Rec	1	6/25/2016 6:34 PM
Surr: Terphenyl-d14	73.1			54-127		%Rec	1	6/25/2016 6:34 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.012	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 1:34 PM
2-Methylnaphthalene	0.014	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 1:34 PM
Acenaphthene	0.024	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 1:34 PM
Acenaphthylene	0.0035	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 1:34 PM
Anthracene	0.047		0.036	0.036	0.036	mg/Kg-dry	50	7/27/2016 7:13 PM
Benzo(a)anthracene	0.15		0.036	0.036	0.036	mg/Kg-dry	50	7/27/2016 7:13 PM
Benzo(a)pyrene	0.13		0.036	0.036	0.036	mg/Kg-dry	50	7/27/2016 7:13 PM
Benzo(b)fluoranthene	0.18		0.036	0.036	0.036	mg/Kg-dry	50	7/27/2016 7:13 PM
Benzo(g,h,i)perylene	0.0012		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 1:34 PM
Benzo(k)fluoranthene	0.095		0.036	0.036	0.036	mg/Kg-dry	50	7/27/2016 7:13 PM
Chrysene	0.16		0.036	0.036	0.036	mg/Kg-dry	50	7/27/2016 7:13 PM
Dibenzo(a,h)anthracene	0.013		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 1:34 PM
Fluoranthene	0.42		0.036	0.036	0.036	mg/Kg-dry	50	7/27/2016 7:13 PM
Fluorene	0.031	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 1:34 PM
Indeno(1,2,3-cd)pyrene	0.085		0.036	0.036	0.036	mg/Kg-dry	50	7/27/2016 7:13 PM
Naphthalene	0.020		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 1:34 PM
Phenanthrene	0.29		0.036	0.036	0.036	mg/Kg-dry	50	7/27/2016 7:13 PM
Pyrene	0.32		0.036	0.036	0.036	mg/Kg-dry	50	7/27/2016 7:13 PM
Surr: 2-Fluorobiphenyl	94.2			46-115		%Rec	1	7/22/2016 1:34 PM
Surr: Nitrobenzene-d5	107			44-125		%Rec	1	7/22/2016 1:34 PM
Surr: Terphenyl-d14	111			58-133		%Rec	1	7/22/2016 1:34 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00065	U	0.00031	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
1,1,1-Trichloroethane	0.00065	U	0.00023	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
1,1,2,2-Tetrachloroethane	0.00065	U	0.00057	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
1,1,2-Trichloroethane	0.00065	U	0.00042	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
1,1-Dichloroethane	0.00065	U	0.00016	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
1,1-Dichloroethene	0.00065	U	0.00022	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
1,2,3-Trichloropropane	0.00065	U	0.00038	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
1,2-Dibromo-3-chloropropane	0.0022	U	0.0015	0.0022	0.0054	mg/Kg-dry	0.99	6/16/2016 3:10 PM
1,2-Dibromoethane	0.00065	U	0.00048	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
1,2-Dichloroethane	0.00065	U	0.00015	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
1,2-Dichloropropane	0.00065	U	0.00030	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
2-Butanone [MEK]	0.011	UQ	0.0064	0.011	0.022	mg/Kg-dry	0.99	6/16/2016 3:10 PM
2-Hexanone	0.0022	U	0.00068	0.0022	0.0054	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Acetone	0.062	BY Q	0.00098	0.0022	0.011	mg/Kg-dry	0.99	6/16/2016 3:10 PM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 3:40:00 PM
Project:	Camp Hero		
Lab ID:	1606467-017	**Matrix:**	Soil
Client Sample ID:	H18-SS01-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00065	U	0.00029	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Bromodichloromethane	0.00065	U	0.00022	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Bromoform	0.00065	UYQ	0.00035	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Carbon disulfide	0.00065	U	0.00020	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Carbon tetrachloride	0.00065	U	0.00023	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Chlorobenzene	0.00065	U	0.00020	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Chlorodibromomethane	0.00065	UQ	0.00037	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Chloroethane	0.0011	U	0.00082	0.0011	0.0022	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Chloroform	0.00065	U	0.00051	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Chloromethane	0.00065	U	0.00037	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
cis-1,2-Dichloroethene	0.00065	U	0.00060	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
cis-1,3-Dichloropropene	0.00065	U	0.00017	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Dichlorodifluoromethane [Freon-12]	0.00065	U	0.00041	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Ethylbenzene	0.00065	U	0.00024	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Methylene chloride	0.0022	UBYQ	0.0011	0.0022	0.0054	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Styrene	0.00065	U	0.00025	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Tetrachloroethene	0.00065	U	0.00035	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Toluene	0.00065	U	0.00029	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
trans-1,2-Dichloroethene	0.00065	U	0.00020	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
trans-1,3-Dichloropropene	0.00065	U	0.00025	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Trichloroethene	0.00065	U	0.00041	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Trichlorofluoromethane [Freon-11]	0.00065	U	0.00024	0.00065	0.0011	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Vinyl acetate	0.00065	UY	0.00051	0.00065	0.0054	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Vinyl chloride	0.00065	U	0.00033	0.00065	0.00086	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Xylene (Total)	0.0019	U	0.00049	0.0019	0.0032	mg/Kg-dry	0.99	6/16/2016 3:10 PM
Surr: 4-Bromofluorobenzene	87.8			79-119		%Rec	0.99	6/16/2016 3:10 PM
Surr: Dibromofluoromethane	99.2			78-119		%Rec	0.99	6/16/2016 3:10 PM
Surr: Toluene-d8	89.7			85-116		%Rec	0.99	6/16/2016 3:10 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	8.1	1.0	1.0	1.0	wt%	1 6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 3:45:00 PM
Project: Camp Hero
Lab ID: 1606467-018 **Matrix:** Soil
Client Sample ID: H18-SS01-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0071	U	0.0032	0.0071	0.035	mg/Kg-dry	1	7/7/2016 12:08 PM
Aroclor 1221	0.0071	U	0.0032	0.0071	0.035	mg/Kg-dry	1	7/7/2016 12:08 PM
Aroclor 1232	0.0071	U	0.0048	0.0071	0.035	mg/Kg-dry	1	7/7/2016 12:08 PM
Aroclor 1242	0.0071	U	0.0040	0.0071	0.035	mg/Kg-dry	1	7/7/2016 12:08 PM
Aroclor 1248	0.0071	U	0.0037	0.0071	0.035	mg/Kg-dry	1	7/7/2016 12:08 PM
Aroclor 1254	0.0071	U	0.0045	0.0071	0.035	mg/Kg-dry	1	7/7/2016 12:08 PM
Aroclor 1260	0.0071	U	0.0031	0.0071	0.035	mg/Kg-dry	1	7/7/2016 12:08 PM
Aroclor 1262	0.0071	U	0.0031	0.0071	0.035	mg/Kg-dry	1	7/7/2016 12:08 PM
Aroclor 1268	0.0071	U	0.0026	0.0071	0.035	mg/Kg-dry	1	7/7/2016 12:08 PM
Surr: Tetrachloro-m-xylene	88.5			44-130		%Rec	1	7/7/2016 12:08 PM
Surr: Decachlorobiphenyl	89.3			60-125		%Rec	1	7/7/2016 12:08 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	4,800		53	140	350	mg/Kg-dry	100	7/14/2016 3:14 PM
Antimony	1.4		0.26	0.35	0.70	mg/Kg-dry	1	7/14/2016 2:23 PM
Arsenic	1.8		0.51	0.70	1.4	mg/Kg-dry	1	7/14/2016 2:23 PM
Barium	11		0.21	3.5	7.0	mg/Kg-dry	1	7/14/2016 2:23 PM
Beryllium	0.035	U	0.0089	0.035	0.18	mg/Kg-dry	1	7/14/2016 2:23 PM
Cadmium	0.031	J	0.023	0.035	0.18	mg/Kg-dry	1	7/14/2016 2:23 PM
Calcium	860		2.1	7.0	35	mg/Kg-dry	1	7/14/2016 2:23 PM
Chromium	7.2		0.058	0.28	0.35	mg/Kg-dry	1	7/14/2016 2:23 PM
Cobalt	1.5	G	0.063	0.18	0.70	mg/Kg-dry	1	7/14/2016 2:23 PM
Copper	16		0.29	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:23 PM
Iron	6,700		220	350	1,100	mg/Kg-dry	100	7/14/2016 3:14 PM
Lead	2.3	J	0.44	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:23 PM
Magnesium	1,000		2.5	3.5	35	mg/Kg-dry	1	7/14/2016 2:23 PM
Manganese	110		0.13	0.18	0.70	mg/Kg-dry	1	7/14/2016 2:23 PM
Nickel	3.5	J	0.20	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:23 PM
Potassium	590		1.6	7.0	14	mg/Kg-dry	1	7/14/2016 2:23 PM
Selenium	1.1	U	0.82	1.1	1.4	mg/Kg-dry	1	7/14/2016 2:23 PM
Silver	0.18	U	0.057	0.18	0.70	mg/Kg-dry	1	7/14/2016 2:23 PM
Sodium	61		1.4	3.5	35	mg/Kg-dry	1	7/14/2016 2:23 PM
Vanadium	11		0.089	0.70	1.8	mg/Kg-dry	1	7/14/2016 2:23 PM
Zinc	9.6		0.27	0.35	3.5	mg/Kg-dry	1	7/14/2016 2:23 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.041	J	0.033	0.034	0.14	mg/Kg-dry	10	7/15/2016 5:10 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
1,2-Dichlorobenzene	0.018	U	0.0076	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
1,3-Dichlorobenzene	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
1,4-Dichlorobenzene	0.018	U	0.0056	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
2,4,5-Trichlorophenol	0.035	U	0.017	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 3:45:00 PM
Project: Camp Hero
Lab ID: 1606467-018 **Matrix:** Soil
Client Sample ID: H18-SS01-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.035	U	0.020	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
2,4-Dichlorophenol	0.088	U	0.030	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
2,4-Dimethyl phenol	0.088	U	0.034	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.88	mg/Kg-dry	1	6/25/2016 6:58 PM
2,4-Dinitrotoluene	0.018	U	0.015	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
2-Chlorophenol	0.088	U	0.037	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
2-Methylphenol (o-Cresol)	0.088	U	0.038	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
2-Nitroaniline	0.018	U	0.0086	0.018	0.34	mg/Kg-dry	1	6/25/2016 6:58 PM
2-Nitrophenol	0.088	U	0.044	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
3,3´-Dichlorobenzidine	0.70	UQ	0.45	0.70	1.1	mg/Kg-dry	1	6/25/2016 6:58 PM
3-Nitroaniline	0.018	U	0.012	0.018	0.34	mg/Kg-dry	1	6/25/2016 6:58 PM
3/4-Methylphenol [m/p-Cresol]	0.088	U	0.063	0.088	0.34	mg/Kg-dry	1	6/25/2016 6:58 PM
4,6-Dinitro-2-methylphenol	0.088	U	0.051	0.088	0.34	mg/Kg-dry	1	6/25/2016 6:58 PM
4-Bromophenyl phenyl ether	0.088	U	0.045	0.088	0.21	mg/Kg-dry	1	6/25/2016 6:58 PM
4-Chloro-3-methylphenol	0.035	U	0.018	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
4-Chloroaniline [p-Chloroaniline]	0.088	U	0.027	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
4-Nitroaniline	0.088	U	0.025	0.088	0.34	mg/Kg-dry	1	6/25/2016 6:58 PM
4-Nitrophenol	0.35	UY	0.25	0.35	0.88	mg/Kg-dry	1	6/25/2016 6:58 PM
Benzoic acid	0.35	UYZ	0.14	0.35	1.1	mg/Kg-dry	1	6/25/2016 6:58 PM
Benzyl alcohol	0.018	U	0.0085	0.018	0.70	mg/Kg-dry	1	6/25/2016 6:58 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Bis(2-chloroethyl) ether	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0080	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Bis(2-ethylhexyl) phthalate	0.035	U	0.031	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Butyl benzyl phthalate	0.035	U	0.021	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Di-n-butyl phthalate	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Dibenzofuran	0.018	U	0.0090	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Hexachlorobenzene	0.018	U	0.0096	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.053	mg/Kg-dry	1	6/25/2016 6:58 PM
Hexachloroethane	0.018	U	0.0081	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Isophorone	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
N-Nitrosodi-n-propylamine	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
N-Nitrosodimethylamine	0.018	UY	0.0086	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
N-Nitrosodiphenylamine	0.018	U	0.0085	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Pentachlorophenol	0.088	U	0.066	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Phenol	0.088	U	0.038	0.088	0.17	mg/Kg-dry	1	6/25/2016 6:58 PM
Surr: 2,4,6-Tribromophenol	62.4			39-132		%Rec	1	6/25/2016 6:58 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 3:45:00 PM
Project:	Camp Hero		
Lab ID:	1606467-018	**Matrix:**	Soil
Client Sample ID:	H18-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	57.4			44-115		%Rec	1	6/25/2016 6:58 PM
Surr: 2-Fluorophenol	54.6			35-115		%Rec	1	6/25/2016 6:58 PM
Surr: Nitrobenzene-d5	59.3			37-122		%Rec	1	6/25/2016 6:58 PM
Surr: Phenol-d5	55.5			33-122		%Rec	1	6/25/2016 6:58 PM
Surr: Terphenyl-d14	60.3			54-127		%Rec	1	6/25/2016 6:58 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
2-Methylnaphthalene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Acenaphthene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Acenaphthylene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Anthracene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Benzo(a)anthracene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Benzo(a)pyrene	0.0070	U	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Benzo(b)fluoranthene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Benzo(g,h,i)perylene	0.0070	U	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Benzo(k)fluoranthene	0.0070	U	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Chrysene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Dibenzo(a,h)anthracene	0.0070	U	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Fluoranthene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Fluorene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Indeno(1,2,3-cd)pyrene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Naphthalene	0.0070	U	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Phenanthrene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Pyrene	0.0070	UQ	0.0070	0.0070	0.0070	mg/Kg-dry	1	7/22/2016 2:01 PM
Surr: 2-Fluorobiphenyl	97.4			46-115		%Rec	1	7/22/2016 2:01 PM
Surr: Nitrobenzene-d5	109			44-125		%Rec	1	7/22/2016 2:01 PM
Surr: Terphenyl-d14	107			58-133		%Rec	1	7/22/2016 2:01 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00059	U	0.00028	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
1,1,1-Trichloroethane	0.00059	U	0.00021	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
1,1,2,2-Tetrachloroethane	0.00059	U	0.00052	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
1,1,2-Trichloroethane	0.00059	U	0.00038	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
1,1-Dichloroethane	0.00059	U	0.00015	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
1,1-Dichloroethene	0.00059	U	0.00020	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
1,2,3-Trichloropropane	0.00059	U	0.00035	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
1,2-Dibromo-3-chloropropane	0.0020	U	0.0014	0.0020	0.0049	mg/Kg-dry	0.91	6/16/2016 3:37 PM
1,2-Dibromoethane	0.00059	U	0.00044	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
1,2-Dichloroethane	0.00059	U	0.00013	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
1,2-Dichloropropane	0.00059	U	0.00027	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
2-Butanone [MEK]	0.0098	UQ	0.0058	0.0098	0.020	mg/Kg-dry	0.91	6/16/2016 3:37 PM
2-Hexanone	0.0020	U	0.00062	0.0020	0.0049	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Acetone	0.025	BYQ	0.00090	0.0020	0.0098	mg/Kg-dry	0.91	6/16/2016 3:37 PM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 3:45:00 PM
Project:	Camp Hero		
Lab ID:	1606467-018	**Matrix:**	Soil
Client Sample ID:	H18-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00059	U	0.00027	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Bromodichloromethane	0.00059	U	0.00020	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Bromoform	0.00059	UYQ	0.00032	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Carbon disulfide	0.00059	U	0.00018	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Carbon tetrachloride	0.00059	U	0.00021	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Chlorobenzene	0.00059	U	0.00019	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Chlorodibromomethane	0.00059	UQ	0.00034	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Chloroethane	0.00098	U	0.00074	0.00098	0.0020	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Chloroform	0.00059	U	0.00047	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Chloromethane	0.00059	U	0.00034	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
cis-1,2-Dichloroethene	0.00059	U	0.00055	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
cis-1,3-Dichloropropene	0.00059	U	0.00016	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Dichlorodifluoromethane [Freon-12]	0.00059	U	0.00038	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Ethylbenzene	0.00059	U	0.00022	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Methylene chloride	0.0020	UBYQ	0.0010	0.0020	0.0049	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Styrene	0.00059	U	0.00022	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Tetrachloroethene	0.00059	U	0.00032	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Toluene	0.00059	U	0.00026	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
trans-1,2-Dichloroethene	0.00059	U	0.00018	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
trans-1,3-Dichloropropene	0.00059	U	0.00022	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Trichloroethene	0.00059	U	0.00037	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Trichlorofluoromethane [Freon-11]	0.00059	U	0.00022	0.00059	0.00098	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Vinyl acetate	0.00059	UY	0.00047	0.00059	0.0049	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Vinyl chloride	0.00059	U	0.00030	0.00059	0.00079	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Xylene (Total)	0.0018	U	0.00045	0.0018	0.0030	mg/Kg-dry	0.91	6/16/2016 3:37 PM
Surr: 4-Bromofluorobenzene	86.7			79-119		%Rec	0.91	6/16/2016 3:37 PM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.91	6/16/2016 3:37 PM
Surr: Toluene-d8	89.2			85-116		%Rec	0.91	6/16/2016 3:37 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	7.5	1.0	1.0	1.0	wt%	1	6/16/2016 11:30 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 4:00:00 PM
Project: Camp Hero
Lab ID: 1606467-019 **Matrix:** Soil
Client Sample ID: H18-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0072	U	0.0032	0.0072	0.035	mg/Kg-dry	1	7/7/2016 12:32 PM
Aroclor 1221	0.0072	U	0.0032	0.0072	0.035	mg/Kg-dry	1	7/7/2016 12:32 PM
Aroclor 1232	0.0072	U	0.0048	0.0072	0.035	mg/Kg-dry	1	7/7/2016 12:32 PM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.035	mg/Kg-dry	1	7/7/2016 12:32 PM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.035	mg/Kg-dry	1	7/7/2016 12:32 PM
Aroclor 1254	0.0072	U	0.0045	0.0072	0.035	mg/Kg-dry	1	7/7/2016 12:32 PM
Aroclor 1260	0.0072	U	0.0031	0.0072	0.035	mg/Kg-dry	1	7/7/2016 12:32 PM
Aroclor 1262	0.0072	U	0.0031	0.0072	0.035	mg/Kg-dry	1	7/7/2016 12:32 PM
Aroclor 1268	0.0072	U	0.0026	0.0072	0.035	mg/Kg-dry	1	7/7/2016 12:32 PM
Surr: Tetrachloro-m-xylene	76.4			44-130		%Rec	1	7/7/2016 12:32 PM
Surr: Decachlorobiphenyl	78.4			60-125		%Rec	1	7/7/2016 12:32 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,300		53	140	350	mg/Kg-dry	100	7/14/2016 3:15 PM
Antimony	1.9		0.26	0.35	0.70	mg/Kg-dry	1	7/14/2016 2:24 PM
Arsenic	2.0		0.51	0.70	1.4	mg/Kg-dry	1	7/14/2016 2:24 PM
Barium	12		0.21	3.5	7.0	mg/Kg-dry	1	7/14/2016 2:24 PM
Beryllium	0.22		0.0089	0.035	0.18	mg/Kg-dry	1	7/14/2016 2:24 PM
Cadmium	0.31		0.023	0.035	0.18	mg/Kg-dry	1	7/14/2016 2:24 PM
Calcium	730		2.1	7.0	35	mg/Kg-dry	1	7/14/2016 2:24 PM
Chromium	7.8		0.058	0.28	0.35	mg/Kg-dry	1	7/14/2016 2:24 PM
Cobalt	2.0	G	0.063	0.18	0.70	mg/Kg-dry	1	7/14/2016 2:24 PM
Copper	22		0.29	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:24 PM
Iron	7,100		220	350	1,100	mg/Kg-dry	100	7/14/2016 3:15 PM
Lead	3.8		0.44	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:24 PM
Magnesium	1,100		2.4	3.5	35	mg/Kg-dry	1	7/14/2016 2:24 PM
Manganese	100		0.13	0.18	0.70	mg/Kg-dry	1	7/14/2016 2:24 PM
Nickel	12		0.20	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:24 PM
Potassium	580		1.6	7.0	14	mg/Kg-dry	1	7/14/2016 2:24 PM
Selenium	1.1	U	0.82	1.1	1.4	mg/Kg-dry	1	7/14/2016 2:24 PM
Silver	0.17	J	0.057	0.18	0.70	mg/Kg-dry	1	7/14/2016 2:24 PM
Sodium	100		1.4	3.5	35	mg/Kg-dry	1	7/14/2016 2:24 PM
Vanadium	11		0.089	0.70	1.8	mg/Kg-dry	1	7/14/2016 2:24 PM
Zinc	14		0.27	0.35	3.5	mg/Kg-dry	1	7/14/2016 2:24 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.36	G	0.035	0.036	0.14	mg/Kg-dry	10	7/21/2016 2:06 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
1,2-Dichlorobenzene	0.018	U	0.0077	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
1,3-Dichlorobenzene	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
1,4-Dichlorobenzene	0.018	U	0.0057	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 4:00:00 PM
Project:	Camp Hero		
Lab ID:	1606467-019	**Matrix:**	Soil
Client Sample ID:	H18-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
2,4-Dichlorophenol	0.089	U	0.031	0.089	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
2,4-Dimethyl phenol	0.089	U	0.034	0.089	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.89	mg/Kg-dry	1	6/25/2016 7:23 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
2-Chlorophenol	0.089	U	0.037	0.089	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
2-Methylphenol (o-Cresol)	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
2-Nitroaniline	0.018	U	0.0087	0.018	0.34	mg/Kg-dry	1	6/25/2016 7:23 PM
2-Nitrophenol	0.089	U	0.044	0.089	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
3,3´-Dichlorobenzidine	0.71	UQ	0.46	0.71	1.1	mg/Kg-dry	1	6/25/2016 7:23 PM
3-Nitroaniline	0.018	U	0.012	0.018	0.34	mg/Kg-dry	1	6/25/2016 7:23 PM
3/4-Methylphenol [m/p-Cresol]	0.089	U	0.064	0.089	0.34	mg/Kg-dry	1	6/25/2016 7:23 PM
4,6-Dinitro-2-methylphenol	0.089	U	0.051	0.089	0.34	mg/Kg-dry	1	6/25/2016 7:23 PM
4-Bromophenyl phenyl ether	0.089	U	0.046	0.089	0.21	mg/Kg-dry	1	6/25/2016 7:23 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
4-Chloroaniline [p-Chloroaniline]	0.089	U	0.027	0.089	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
4-Nitroaniline	0.089	U	0.026	0.089	0.34	mg/Kg-dry	1	6/25/2016 7:23 PM
4-Nitrophenol	0.36	UY	0.26	0.36	0.89	mg/Kg-dry	1	6/25/2016 7:23 PM
Benzoic acid	0.36	UYZ	0.14	0.36	1.1	mg/Kg-dry	1	6/25/2016 7:23 PM
Benzyl alcohol	0.018	U	0.0086	0.018	0.71	mg/Kg-dry	1	6/25/2016 7:23 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0082	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Dibenzofuran	0.018	U	0.0091	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Hexachlorobenzene	0.018	U	0.0097	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.054	mg/Kg-dry	1	6/25/2016 7:23 PM
Hexachloroethane	0.018	U	0.0082	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Isophorone	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
N-Nitrosodi-n-propylamine	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
N-Nitrosodimethylamine	0.018	UY	0.0087	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
N-Nitrosodiphenylamine	0.018	U	0.0086	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Pentachlorophenol	0.089	U	0.067	0.089	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Phenol	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	6/25/2016 7:23 PM
Surr: 2,4,6-Tribromophenol	71.8			39-132		%Rec	1	6/25/2016 7:23 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 4:00:00 PM
Project: Camp Hero
Lab ID: 1606467-019 **Matrix:** Soil
Client Sample ID: H18-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	61.4			44-115		%Rec	1	6/25/2016 7:23 PM
Surr: 2-Fluorophenol	61.0			35-115		%Rec	1	6/25/2016 7:23 PM
Surr: Nitrobenzene-d5	65.7			37-122		%Rec	1	6/25/2016 7:23 PM
Surr: Phenol-d5	61.5			33-122		%Rec	1	6/25/2016 7:23 PM
Surr: Terphenyl-d14	69.7			54-127		%Rec	1	6/25/2016 7:23 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0058	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
2-Methylnaphthalene	0.0068	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Acenaphthene	0.0035	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Acenaphthylene	0.00076	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Anthracene	0.0056	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Benzo(a)anthracene	0.026	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Benzo(a)pyrene	0.022		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Benzo(b)fluoranthene	0.030		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/27/2016 7:41 PM
Benzo(g,h,i)perylene	0.011		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Benzo(k)fluoranthene	0.0084		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Chrysene	0.024	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Dibenzo(a,h)anthracene	0.0022		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Fluoranthene	0.058		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/27/2016 7:41 PM
Fluorene	0.0036	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Indeno(1,2,3-cd)pyrene	0.014	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Naphthalene	0.0050		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Phenanthrene	0.035	Q	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/22/2016 2:30 PM
Pyrene	0.043		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/27/2016 7:41 PM
Surr: 2-Fluorobiphenyl	96.0			46-115		%Rec	1	7/22/2016 2:30 PM
Surr: Nitrobenzene-d5	107			44-125		%Rec	1	7/22/2016 2:30 PM
Surr: Terphenyl-d14	109			58-133		%Rec	1	7/22/2016 2:30 PM
TCL for Low Level Soil			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.00065	U	0.00031	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
1,1,1-Trichloroethane	0.00065	U	0.00023	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
1,1,2,2-Tetrachloroethane	0.00065	U	0.00058	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
1,1,2-Trichloroethane	0.00065	U	0.00043	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
1,1-Dichloroethane	0.00065	U	0.00016	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
1,1-Dichloroethene	0.00065	U	0.00022	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
1,2,3-Trichloropropane	0.00065	U	0.00038	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
1,2-Dibromo-3-chloropropane	0.0022	U	0.0015	0.0022	0.0055	mg/Kg-dry	1.01	6/17/2016 11:19 AM
1,2-Dibromoethane	0.00065	U	0.00049	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
1,2-Dichloroethane	0.00065	U	0.00015	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
1,2-Dichloropropane	0.00065	U	0.00030	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
2-Butanone [MEK]	0.011	U	0.0065	0.011	0.022	mg/Kg-dry	1.01	6/17/2016 11:19 AM
2-Hexanone	0.0022	U	0.00068	0.0022	0.0055	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Acetone	0.048	BY Q	0.00099	0.0022	0.011	mg/Kg-dry	1.01	6/17/2016 11:19 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 4:00:00 PM
Project: Camp Hero
Lab ID: 1606467-019 **Matrix:** Soil
Client Sample ID: H18-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00065	U	0.00029	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Bromodichloromethane	0.00065	U	0.00022	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Bromoform	0.00065	UYQ	0.00036	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Carbon disulfide	0.00065	U	0.00020	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Carbon tetrachloride	0.00065	U	0.00023	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Chlorobenzene	0.00065	U	0.00021	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Chlorodibromomethane	0.00065	UQ	0.00038	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Chloroethane	0.0011	U	0.00083	0.0011	0.0022	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Chloroform	0.00065	U	0.00052	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Chloromethane	0.00065	U	0.00038	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
cis-1,2-Dichloroethene	0.00065	U	0.00061	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
cis-1,3-Dichloropropene	0.00065	U	0.00018	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Dichlorodifluoromethane [Freon-12]	0.00065	U	0.00042	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Ethylbenzene	0.00065	U	0.00024	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Methylene chloride	0.0022	UBQ	0.0012	0.0022	0.0055	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Styrene	0.00065	U	0.00025	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Tetrachloroethene	0.00065	U	0.00035	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Toluene	0.00065	U	0.00029	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
trans-1,2-Dichloroethene	0.00065	U	0.00020	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
trans-1,3-Dichloropropene	0.00065	U	0.00025	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Trichloroethene	0.00065	U	0.00042	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Trichlorofluoromethane [Freon-11]	0.00065	U	0.00024	0.00065	0.0011	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Vinyl acetate	0.00065	UY	0.00052	0.00065	0.0055	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Vinyl chloride	0.00065	U	0.00034	0.00065	0.00087	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Xylene (Total)	0.0020	U	0.00050	0.0020	0.0033	mg/Kg-dry	1.01	6/17/2016 11:19 AM
Surr: 4-Bromofluorobenzene	85.9			79-119		%Rec	1.01	6/17/2016 11:19 AM
Surr: Dibromofluoromethane	97.9			78-119		%Rec	1.01	6/17/2016 11:19 AM
Surr: Toluene-d8	89.2			85-116		%Rec	1.01	6/17/2016 11:19 AM

Percent Moisture **Method: ASTM-D2216** **Analyst: NS1**

Percent Moisture	7.4		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 4:05:00 PM
Project: Camp Hero
Lab ID: 1606467-020 **Matrix:** Soil
Client Sample ID: H18-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0068	U	0.0031	0.0068	0.034	mg/Kg-dry	1	7/7/2016 12:57 PM
Aroclor 1221	0.0068	U	0.0031	0.0068	0.034	mg/Kg-dry	1	7/7/2016 12:57 PM
Aroclor 1232	0.0068	U	0.0046	0.0068	0.034	mg/Kg-dry	1	7/7/2016 12:57 PM
Aroclor 1242	0.0068	U	0.0038	0.0068	0.034	mg/Kg-dry	1	7/7/2016 12:57 PM
Aroclor 1248	0.0068	U	0.0036	0.0068	0.034	mg/Kg-dry	1	7/7/2016 12:57 PM
Aroclor 1254	0.0068	U	0.0043	0.0068	0.034	mg/Kg-dry	1	7/7/2016 12:57 PM
Aroclor 1260	0.0068	U	0.0030	0.0068	0.034	mg/Kg-dry	1	7/7/2016 12:57 PM
Aroclor 1262	0.0068	U	0.0030	0.0068	0.034	mg/Kg-dry	1	7/7/2016 12:57 PM
Aroclor 1268	0.0068	U	0.0025	0.0068	0.034	mg/Kg-dry	1	7/7/2016 12:57 PM
Surr: Tetrachloro-m-xylene	70.8			44-130		%Rec	1	7/7/2016 12:57 PM
Surr: Decachlorobiphenyl	79.9			60-125		%Rec	1	7/7/2016 12:57 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	3,000		52	140	340	mg/Kg-dry	100	7/14/2016 3:17 PM
Antimony	1.2		0.26	0.34	0.69	mg/Kg-dry	1	7/14/2016 2:26 PM
Arsenic	1.1	J	0.50	0.69	1.4	mg/Kg-dry	1	7/14/2016 2:26 PM
Barium	7.2		0.20	3.4	6.9	mg/Kg-dry	1	7/14/2016 2:26 PM
Beryllium	0.034	U	0.0087	0.034	0.17	mg/Kg-dry	1	7/14/2016 2:26 PM
Cadmium	0.034	U	0.023	0.034	0.17	mg/Kg-dry	1	7/14/2016 2:26 PM
Calcium	470		2.0	6.9	34	mg/Kg-dry	1	7/14/2016 2:26 PM
Chromium	5.2		0.057	0.28	0.34	mg/Kg-dry	1	7/14/2016 2:26 PM
Cobalt	1.3	G	0.062	0.17	0.69	mg/Kg-dry	1	7/14/2016 2:26 PM
Copper	14		0.29	0.69	3.4	mg/Kg-dry	1	7/14/2016 2:26 PM
Iron	6,000		210	340	1,000	mg/Kg-dry	100	7/14/2016 3:17 PM
Lead	1.1	J	0.43	0.69	3.4	mg/Kg-dry	1	7/14/2016 2:26 PM
Magnesium	610		2.4	3.4	34	mg/Kg-dry	1	7/14/2016 2:26 PM
Manganese	73		0.13	0.17	0.69	mg/Kg-dry	1	7/14/2016 2:26 PM
Nickel	2.2	J	0.19	0.69	3.4	mg/Kg-dry	1	7/14/2016 2:26 PM
Potassium	340		1.6	6.9	14	mg/Kg-dry	1	7/14/2016 2:26 PM
Selenium	1.0	U	0.80	1.0	1.4	mg/Kg-dry	1	7/14/2016 2:26 PM
Silver	0.17	U	0.056	0.17	0.69	mg/Kg-dry	1	7/14/2016 2:26 PM
Sodium	47		1.4	3.4	34	mg/Kg-dry	1	7/14/2016 2:26 PM
Vanadium	7.9		0.087	0.69	1.7	mg/Kg-dry	1	7/14/2016 2:26 PM
Zinc	5.9		0.27	0.34	3.4	mg/Kg-dry	1	7/14/2016 2:26 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.041	JG	0.032	0.033	0.13	mg/Kg-dry	10	7/21/2016 2:03 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.017	U	0.0095	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
1,2-Dichlorobenzene	0.017	U	0.0073	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
1,3-Dichlorobenzene	0.017	U	0.0070	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
1,4-Dichlorobenzene	0.017	U	0.0054	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
2,4,5-Trichlorophenol	0.034	U	0.017	0.034	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/12/2016 4:05:00 PM
Project: Camp Hero
Lab ID: 1606467-020 **Matrix:** Soil
Client Sample ID: H18-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.034	U	0.019	0.034	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
2,4-Dichlorophenol	0.085	U	0.029	0.085	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
2,4-Dimethyl phenol	0.085	U	0.032	0.085	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
2,4-Dinitrophenol	0.17	U	0.096	0.17	0.84	mg/Kg-dry	1	6/25/2016 7:48 PM
2,4-Dinitrotoluene	0.017	U	0.015	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
2,6-Dinitrotoluene	0.017	U	0.016	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
2-Chloronaphthalene	0.017	U	0.011	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
2-Chlorophenol	0.085	U	0.035	0.085	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
2-Methylphenol (o-Cresol)	0.085	U	0.036	0.085	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
2-Nitroaniline	0.017	U	0.0083	0.017	0.33	mg/Kg-dry	1	6/25/2016 7:48 PM
2-Nitrophenol	0.085	U	0.042	0.085	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
3,3´-Dichlorobenzidine	0.68	UQ	0.43	0.68	1.0	mg/Kg-dry	1	6/25/2016 7:48 PM
3-Nitroaniline	0.017	U	0.012	0.017	0.33	mg/Kg-dry	1	6/25/2016 7:48 PM
3/4-Methylphenol [m/p-Cresol]	0.085	U	0.060	0.085	0.33	mg/Kg-dry	1	6/25/2016 7:48 PM
4,6-Dinitro-2-methylphenol	0.085	U	0.049	0.085	0.33	mg/Kg-dry	1	6/25/2016 7:48 PM
4-Bromophenyl phenyl ether	0.085	U	0.043	0.085	0.20	mg/Kg-dry	1	6/25/2016 7:48 PM
4-Chloro-3-methylphenol	0.034	U	0.018	0.034	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
4-Chloroaniline [p-Chloroaniline]	0.085	U	0.026	0.085	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
4-Chlorophenyl phenyl ether	0.017	U	0.010	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
4-Nitroaniline	0.085	U	0.024	0.085	0.33	mg/Kg-dry	1	6/25/2016 7:48 PM
4-Nitrophenol	0.34	UY	0.24	0.34	0.84	mg/Kg-dry	1	6/25/2016 7:48 PM
Benzoic acid	0.34	UYZ	0.14	0.34	1.0	mg/Kg-dry	1	6/25/2016 7:48 PM
Benzyl alcohol	0.017	U	0.0082	0.017	0.67	mg/Kg-dry	1	6/25/2016 7:48 PM
Bis(2-chloroethoxy) methane	0.017	U	0.0071	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Bis(2-chloroethyl) ether	0.034	U	0.018	0.034	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Bis(2-chloroisopropyl)ether	0.017	UYZ	0.0077	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Bis(2-ethylhexyl) phthalate	0.034	U	0.030	0.034	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Butyl benzyl phthalate	0.034	U	0.020	0.034	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Carbazole	0.017	U	0.012	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Di-n-butyl phthalate	0.034	U	0.018	0.034	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Di-n-octyl phthalate	0.017	U	0.012	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Dibenzofuran	0.017	U	0.0086	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Diethyl phthalate	0.017	U	0.012	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Dimethyl phthalate	0.017	U	0.011	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Hexachlorobenzene	0.017	U	0.0092	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Hexachlorobutadiene	0.017	U	0.015	0.017	0.051	mg/Kg-dry	1	6/25/2016 7:48 PM
Hexachloroethane	0.017	U	0.0078	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Isophorone	0.017	U	0.0070	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
N-Nitrosodi-n-propylamine	0.017	U	0.0094	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
N-Nitrosodimethylamine	0.017	UY	0.0082	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
N-Nitrosodiphenylamine	0.017	U	0.0082	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Nitrobenzene	0.017	U	0.011	0.017	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Pentachlorophenol	0.085	U	0.064	0.085	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Phenol	0.085	U	0.036	0.085	0.16	mg/Kg-dry	1	6/25/2016 7:48 PM
Surr: 2,4,6-Tribromophenol	71.0			39-132		%Rec	1	6/25/2016 7:48 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 4:05:00 PM
Project:	Camp Hero		
Lab ID:	1606467-020	**Matrix:**	Soil
Client Sample ID:	H18-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	63.1			44-115		%Rec	1	6/25/2016 7:48 PM
Surr: 2-Fluorophenol	60.1			35-115		%Rec	1	6/25/2016 7:48 PM
Surr: Nitrobenzene-d5	64.2			37-122		%Rec	1	6/25/2016 7:48 PM
Surr: Phenol-d5	60.2			33-122		%Rec	1	6/25/2016 7:48 PM
Surr: Terphenyl-d14	64.7			54-127		%Rec	1	6/25/2016 7:48 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
2-Methylnaphthalene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Acenaphthene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Acenaphthylene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Anthracene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Benzo(a)anthracene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Benzo(a)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Benzo(b)fluoranthene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Benzo(g,h,i)perylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Benzo(k)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Chrysene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Dibenzo(a,h)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Fluoranthene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Fluorene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Indeno(1,2,3-cd)pyrene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Naphthalene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Phenanthrene	0.0021	Q	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Pyrene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 3:00 PM
Surr: 2-Fluorobiphenyl	112			46-115		%Rec	3	7/22/2016 3:00 PM
Surr: Nitrobenzene-d5	121			44-125		%Rec	3	7/22/2016 3:00 PM
Surr: Terphenyl-d14	124			58-133		%Rec	3	7/22/2016 3:00 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00064	U	0.00031	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
1,1,1-Trichloroethane	0.00064	U	0.00023	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
1,1,2,2-Tetrachloroethane	0.00064	U	0.00057	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
1,1,2-Trichloroethane	0.00064	U	0.00042	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
1,1-Dichloroethane	0.00064	U	0.00016	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
1,1-Dichloroethene	0.00064	U	0.00022	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
1,2,3-Trichloropropane	0.00064	U	0.00038	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
1,2-Dibromo-3-chloropropane	0.0021	U	0.0015	0.0021	0.0054	mg/Kg-dry	1.04	6/17/2016 11:45 AM
1,2-Dibromoethane	0.00064	U	0.00048	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
1,2-Dichloroethane	0.00064	U	0.00014	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
1,2-Dichloropropane	0.00064	U	0.00030	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
2-Butanone [MEK]	0.011	U	0.0064	0.011	0.021	mg/Kg-dry	1.04	6/17/2016 11:45 AM
2-Hexanone	0.0021	U	0.00067	0.0021	0.0054	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Acetone	0.033	BY Q	0.00098	0.0021	0.011	mg/Kg-dry	1.04	6/17/2016 11:45 AM

RTI Laboratories - Analytical Report

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/12/2016 4:05:00 PM
Project:	Camp Hero		
Lab ID:	1606467-020	**Matrix:**	Soil
Client Sample ID:	H18-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00064	U	0.00029	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Bromodichloromethane	0.00064	U	0.00022	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Bromoform	0.00064	UYQ	0.00035	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Carbon disulfide	0.00064	U	0.00020	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Carbon tetrachloride	0.00064	U	0.00023	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Chlorobenzene	0.00064	U	0.00020	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Chlorodibromomethane	0.00064	UQ	0.00037	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Chloroethane	0.0011	U	0.00081	0.0011	0.0021	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Chloroform	0.00064	U	0.00051	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Chloromethane	0.00064	U	0.00037	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
cis-1,2-Dichloroethene	0.00064	U	0.00060	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
cis-1,3-Dichloropropene	0.00064	U	0.00017	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Dichlorodifluoromethane [Freon-12]	0.00064	U	0.00041	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Ethylbenzene	0.00064	U	0.00024	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Methylene chloride	0.0032	JBQ	0.0011	0.0021	0.0054	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Styrene	0.00064	U	0.00024	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Tetrachloroethene	0.00064	U	0.00034	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Toluene	0.00064	U	0.00029	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
trans-1,2-Dichloroethene	0.00064	U	0.00020	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
trans-1,3-Dichloropropene	0.00064	U	0.00024	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Trichloroethene	0.00064	U	0.00041	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Trichlorofluoromethane [Freon-11]	0.00064	U	0.00024	0.00064	0.0011	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Vinyl acetate	0.00064	UY	0.00051	0.00064	0.0054	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Vinyl chloride	0.00064	U	0.00033	0.00064	0.00086	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Xylene (Total)	0.0019	U	0.00049	0.0019	0.0032	mg/Kg-dry	1.04	6/17/2016 11:45 AM
Surr: 4-Bromofluorobenzene	87.2			79-119		%Rec	1.04	6/17/2016 11:45 AM
Surr: Dibromofluoromethane	97.9			78-119		%Rec	1.04	6/17/2016 11:45 AM
Surr: Toluene-d8	89.4			85-116		%Rec	1.04	6/17/2016 11:45 AM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	3.1		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

RTI Laboratories - DATES REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606467-001A	TB-SO-061216-02	6/12/2016 8:05 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/15/2016 9:20 PM	6/15/2016 9:20 PM
1606467-002A	P113-SB01-04	6/12/2016 12:30 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 12:31 PM	6/16/2016 12:31 PM
1606467-002D	P113-SB01-04	6/12/2016 12:30 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/12/2016 1:56 AM
1606467-002E	P113-SB01-04	6/12/2016 12:30 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:53 PM
1606467-002F	P113-SB01-04	6/12/2016 12:30 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-003A	P113-SB01-05	6/12/2016 12:35 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 12:58 PM	6/16/2016 12:58 PM
1606467-003D	P113-SB01-05	6/12/2016 12:35 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/14/2016 7:30 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/21/2016 5:16 PM
1606467-003E	P113-SB01-05	6/12/2016 12:35 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:54 PM
1606467-003F	P113-SB01-05	6/12/2016 12:35 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-004C	P113-SS02-01	6/12/2016 12:15 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/18/2016 12:30 AM	6/18/2016 12:30 AM
1606467-004D	P113-SS02-01	6/12/2016 12:15 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/14/2016 7:57 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/21/2016 5:42 PM
1606467-004E	P113-SS02-01	6/12/2016 12:15 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:24 PM
1606467-004F	P113-SS02-01	6/12/2016 12:15 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-005A	P113-SB02-04	6/12/2016 12:30 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 1:24 PM	6/16/2016 1:24 PM
1606467-005D	P113-SB02-04	6/12/2016 12:30 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/14/2016 8:25 PM

RTI Laboratories - DATES REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606467-005E	P113-SB02-04	6/12/2016 12:30 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:56 PM
1606467-005F	P113-SB02-04	6/12/2016 12:30 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-006C	P113-SS03-01	6/12/2016 12:10 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/20/2016 3:00 PM	6/20/2016 3:00 PM
1606467-006D	P113-SS03-01	6/12/2016 12:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/14/2016 8:52 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/20/2016 9:53 AM	7/21/2016 6:08 PM
1606467-006E	P113-SS03-01	6/12/2016 12:10 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:57 PM
1606467-006F	P113-SS03-01	6/12/2016 12:10 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-007A	H6-SS01-01	6/12/2016 11:35 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 6:26 AM
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 1:18 AM
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 11:27 AM
1606467-007B	H6-SS01-01	6/12/2016 11:35 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 1:58 PM
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-008A	H6-SS02-01	6/12/2016 11:30 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 6:50 AM
1606467-008B	H6-SS02-01	6/12/2016 11:30 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 2:00 PM
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-009A	H6-SS03-01	6/12/2016 11:45 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 7:15 AM
1606467-009B	H6-SS03-01	6/12/2016 11:45 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 2:01 PM
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-010A	WDS-SB10-08	6/12/2016 1:50 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/17/2016 10:52 AM	6/17/2016 10:52 AM

RTI Laboratories - DATES REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606467-010D	WDS-SB10-08	6/12/2016 1:50 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 6:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/14/2016 9:19 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 4:55 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/29/2016 7:05 AM
1606467-010E	WDS-SB10-08	6/12/2016 1:50 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 7:39 AM
1606467-010F	WDS-SB10-08	6/12/2016 1:50 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 5:07 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:19 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:10 PM
1606467-010G	WDS-SB10-08	6/12/2016 1:50 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-011A	H4-SS01-01	6/12/2016 2:30 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 8:03 AM
1606467-011B	H4-SS01-01	6/12/2016 2:30 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 2:02 PM
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-012A	H4-SS02-01	6/12/2016 2:10 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 8:28 AM
1606467-012B	H4-SS02-01	6/12/2016 2:10 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 9:20 AM	7/7/2016 2:04 PM
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-013A	H4-SB02-05	6/12/2016 2:15 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 8:52 AM
1606467-013B	H4-SB02-05	6/12/2016 2:15 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:32 PM
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-014A	H4-SS03-01	6/12/2016 1:55 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 10:30 AM
1606467-014B	H4-SS03-01	6/12/2016 1:55 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:33 PM

RTI Laboratories - DATES REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606467-014B	H4-SS03-01	6/12/2016 1:55 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-015A	H4-SB03-05	6/12/2016 2:00 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 10:55 AM
1606467-015B	H4-SB03-05	6/12/2016 2:00 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:35 PM
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-016A	H18-SS01-01	6/12/2016 3:40 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 2:44 PM	6/16/2016 2:44 PM
1606467-016D	H18-SS01-01	6/12/2016 3:40 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 6:09 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 12:08 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 7:31 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/27/2016 6:45 PM
1606467-016E	H18-SS01-01	6/12/2016 3:40 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 11:19 AM
1606467-016F	H18-SS01-01	6/12/2016 3:40 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 5:08 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:20 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:12 PM
1606467-016G	H18-SS01-01	6/12/2016 3:40 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-017A	H18-SS01-01 DUP	6/12/2016 3:40 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 3:10 PM	6/16/2016 3:10 PM
1606467-017D	H18-SS01-01 DUP	6/12/2016 3:40 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 6:34 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 1:34 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 7:06 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/27/2016 7:13 PM
1606467-017E	H18-SS01-01 DUP	6/12/2016 3:40 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 11:44 AM

RTI Laboratories - DATES REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606467-017F	H18-SS01-01 DUP	6/12/2016 3:40 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 5:09 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:22 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:13 PM
1606467-017G	H18-SS01-01 DUP	6/12/2016 3:40 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-018A	H18-SS01-02	6/12/2016 3:45 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/16/2016 3:37 PM	6/16/2016 3:37 PM
1606467-018D	H18-SS01-02	6/12/2016 3:45 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 6:58 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 2:01 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	8/1/2016 1:40 PM
1606467-018E	H18-SS01-02	6/12/2016 3:45 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 12:08 PM
1606467-018F	H18-SS01-02	6/12/2016 3:45 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/15/2016 10:33 AM	7/15/2016 5:10 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:23 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:14 PM
1606467-018G	H18-SS01-02	6/12/2016 3:45 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 11:30 AM	6/16/2016 11:30 AM
1606467-019A	H18-SS02-01	6/12/2016 4:00 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/17/2016 11:19 AM	6/17/2016 11:19 AM
1606467-019D	H18-SS02-01	6/12/2016 4:00 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 7:23 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 2:30 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 6:40 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/27/2016 7:41 PM
1606467-019E	H18-SS02-01	6/12/2016 4:00 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 12:32 PM
1606467-019F	H18-SS02-01	6/12/2016 4:00 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:06 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:24 PM

RTI Laboratories - DATES REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606467-019F	H18-SS02-01	6/12/2016 4:00 PM	Soil				
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:15 PM
1606467-019G	H18-SS02-01	6/12/2016 4:00 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606467-020A	H18-SS02-02	6/12/2016 4:05 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/17/2016 11:45 AM	6/17/2016 11:45 AM
1606467-020D	H18-SS02-02	6/12/2016 4:05 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 7:48 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 3:00 PM
1606467-020E	H18-SS02-02	6/12/2016 4:05 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 12:57 PM
1606467-020F	H18-SS02-02	6/12/2016 4:05 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:03 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:26 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:17 PM
1606467-020G	H18-SS02-02	6/12/2016 4:05 PM	Soil				
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40198**

Sample ID:	1606430-009DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/20/2016	RunNo:	87308
Client ID:	ZZZZZZ	Batch ID:	40198	TestNo:	SW8270C	SW3550C		Analysis Date:	7/11/2016	SeqNo:	1694634

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.013	0.00075	0.015	0	84.2	44	111				
Acenaphthylene	0.013	0.00075	0.015	0	87.8	39	116				
Anthracene	0.013	0.00075	0.015	0.0010	79.0	50	114				
Benzo(a)anthracene	0.020	0.00075	0.015	0.0071	86.2	54	122				
Benzo(a)pyrene	0.015	0.00075	0.015	0.0054	62.0	50	125				
Benzo(b)fluoranthene	0.020	0.00075	0.015	0.0083	78.9	53	128				
Benzo(g,h,i)perylene	0.016	0.00075	0.015	0.0041	81.8	49	127				
Benzo(k)fluoranthene	0.012	0.00075	0.015	0.0031	61.1	56	123				
Chrysene	0.014	0.00075	0.015	0.0050	58.8	57	118				
Dibenzo(a,h)anthracene	0.016	0.00075	0.015	0	106	50	129				
Fluoranthene	0.017	0.00075	0.015	0.011	39.2	55	119				Q
Fluorene	0.014	0.00075	0.015	0	94.2	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00075	0.015	0.0035	68.7	49	130				
Phenanthrene	0.019	0.00075	0.015	0.0079	76.0	49	113				
Pyrene	0.019	0.00075	0.015	0.011	53.7	55	117				Q
Surr: 2-Fluorobiphenyl	13		18.73		70.3	46	115				
Surr: Nitrobenzene-d5	15		18.73		80.6	44	125				
Surr: Terphenyl-d14	16		18.73		87.0	58	133				

Sample ID:	1606430-009DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/20/2016	RunNo:	87308
Client ID:	ZZZZZZ	Batch ID:	40198	TestNo:	SW8270C	SW3550C		Analysis Date:	7/11/2016	SeqNo:	1694635

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.013	0.00076	0.015	0	88.5	44	111	0.013	5.91	25	
Acenaphthylene	0.014	0.00076	0.015	0	90.8	39	116	0.013	4.20	25	
Anthracene	0.014	0.00076	0.015	0.0010	84.0	50	114	0.013	6.55	25	
Benzo(a)anthracene	0.021	0.00076	0.015	0.0071	94.5	54	122	0.020	6.56	25	
Benzo(a)pyrene	0.016	0.00076	0.015	0.0054	72.0	50	125	0.015	10.2	25	
Benzo(b)fluoranthene	0.022	0.00076	0.015	0.0083	91.1	53	128	0.020	9.22	25	
Benzo(g,h,i)perylene	0.016	0.00076	0.015	0.0041	80.0	49	127	0.016	1.02	25	
Benzo(k)fluoranthene	0.013	0.00076	0.015	0.0031	68.5	56	123	0.012	9.41	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40198**

Sample ID:	1606430-009DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/20/2016	RunNo:	87308
Client ID:	ZZZZZZ	Batch ID:	40198	TestNo:	SW8270C	SW3550C		Analysis Date:	7/11/2016	SeqNo:	1694635

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.015	0.00076	0.015	0.0050	65.7	57	118	0.014	7.83	25	
Dibenzo(a,h)anthracene	0.017	0.00076	0.015	0	110	50	129	0.016	4.11	25	
Fluoranthene	0.021	0.00076	0.015	0.011	61.6	55	119	0.017	18.1	25	
Fluorene	0.015	0.00076	0.015	0	99.4	47	114	0.014	6.23	25	
Indeno(1,2,3-cd)pyrene	0.014	0.00076	0.015	0.0035	67.2	49	130	0.014	1.02	25	
Phenanthrene	0.024	0.00076	0.015	0.0079	105	49	113	0.019	20.8	25	
Pyrene	0.022	0.00076	0.015	0.011	71.7	55	117	0.019	13.5	25	
Surr: 2-Fluorobiphenyl	14		18.89		72.7	46	115		0	25	
Surr: Nitrobenzene-d5	16		18.89		83.2	44	125		0	25	
Surr: Terphenyl-d14	17		18.89		88.3	58	133		0	25	

Sample ID:	MB-1-40198	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	88041
Client ID:	PBS	Batch ID:	40198	TestNo:	SW8270C	SW3550C		Analysis Date:	7/11/2016	SeqNo:	1711840

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	12		16.63		69.7	46	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40198**

Sample ID:	MB-1-40198	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	88041
Client ID:	PBS	Batch ID:	40198	TestNo:	SW8270C	SW3550C		Analysis Date:	7/11/2016	SeqNo:	1711840

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	11		16.63		67.2	44	125				
Surr: Terphenyl-d14	14		16.63		85.3	58	133				

Sample ID:	LCS-1-40198	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	88041
Client ID:	LCSS	Batch ID:	40198	TestNo:	SW8270C	SW3550C		Analysis Date:	7/11/2016	SeqNo:	1711841

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.012	0.00067	0.013	0	87.3	44	111				
Acenaphthylene	0.012	0.00067	0.013	0	87.6	39	116				
Anthracene	0.011	0.00067	0.013	0	85.2	50	114				
Benzo(a)anthracene	0.015	0.00067	0.013	0	110	54	122				
Benzo(a)pyrene	0.011	0.00067	0.013	0	84.7	50	125				
Benzo(b)fluoranthene	0.014	0.00067	0.013	0	104	53	128				
Benzo(g,h,i)perylene	0.013	0.00067	0.013	0	101	49	127				
Benzo(k)fluoranthene	0.011	0.00067	0.013	0	84.5	56	123				
Chrysene	0.010	0.00067	0.013	0	79.1	57	118				
Dibenzo(a,h)anthracene	0.014	0.00067	0.013	0	106	50	129				
Fluoranthene	0.010	0.00067	0.013	0	78.7	55	119				
Fluorene	0.013	0.00067	0.013	0	97.8	47	114				
Indeno(1,2,3-cd)pyrene	0.011	0.00067	0.013	0	85.1	49	130				
Phenanthrene	0.014	0.00067	0.013	0	109	49	113				
Pyrene	0.012	0.00067	0.013	0	94.2	55	117				
Surr: 2-Fluorobiphenyl	13		16.59		75.5	46	115				
Surr: Nitrobenzene-d5	14		16.59		84.0	44	125				
Surr: Terphenyl-d14	15		16.59		91.2	58	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID:	MB-40214	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87666
Client ID:	PBS	Batch ID:	40214	TestNo:	SW8270C	SW3550C		Analysis Date:	7/8/2016	SeqNo:	1703029

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									UY
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	13		16.59		79.0	46	115				
Surr: Nitrobenzene-d5	14		16.59		87.0	44	125				
Surr: Terphenyl-d14	16		16.59		94.3	58	133				

Sample ID:	LCS-40214	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87666
Client ID:	LCSS	Batch ID:	40214	TestNo:	SW8270C	SW3550C		Analysis Date:	7/8/2016	SeqNo:	1703030

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.011	0.00067	0.013	0	85.3	43	111				
2-Methylnaphthalene	0.011	0.00067	0.013	0	85.3	39	114				
Acenaphthene	0.011	0.00067	0.013	0	79.3	44	111				
Acenaphthylene	0.010	0.00067	0.013	0	78.3	39	116				
Anthracene	0.0099	0.00067	0.013	0	74.8	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID: **LCS-40214** Samp Type: **LCS** Test Code: **SW_8270S-SIM** Units: **mg/Kg** Prep Date: **6/21/2016** RunNo: **87666**

Client ID: **LCSS** Batch ID: **40214** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/8/2016** SeqNo: **1703030**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.013	0.00067	0.013	0	101	54	122				Y
Benzo(a)pyrene	0.0099	0.00067	0.013	0	74.3	50	125				
Benzo(b)fluoranthene	0.014	0.00067	0.013	0	106	53	128				
Benzo(g,h,i)perylene	0.012	0.00067	0.013	0	91.3	49	127				
Benzo(k)fluoranthene	0.0095	0.00067	0.013	0	71.4	56	123				
Chrysene	0.0095	0.00067	0.013	0	71.8	57	118				
Dibenzo(a,h)anthracene	0.013	0.00067	0.013	0	95.7	50	129				
Fluoranthene	0.0097	0.00067	0.013	0	73.1	55	119				
Fluorene	0.011	0.00067	0.013	0	85.3	47	114				
Indeno(1,2,3-cd)pyrene	0.010	0.00067	0.013	0	76.6	49	130				
Naphthalene	0.010	0.00067	0.013	0	75.8	38	111				
Phenanthrene	0.013	0.00067	0.013	0	96.9	49	113				
Pyrene	0.012	0.00067	0.013	0	87.1	55	117				
Surr: 2-Fluorobiphenyl	15		16.59		89.3	46	115				
Surr: Nitrobenzene-d5	16		16.59		94.3	44	125				
Surr: Terphenyl-d14	18		16.59		110	58	133				

Sample ID: **1606506-006AMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87666**

Client ID: **ZZZZZZ** Batch ID: **40214** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/8/2016** SeqNo: **1703032**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.014	0.00073	0.015	0.0023	84.0	43	111				
2-Methylnaphthalene	0.015	0.00073	0.015	0.0023	86.7	39	114				
Acenaphthene	0.014	0.00073	0.015	0.0031	75.8	44	111				
Acenaphthylene	0.012	0.00073	0.015	0.00095	78.7	39	116				
Anthracene	0.020	0.00073	0.015	0.0089	78.1	50	114				
Benzo(a)anthracene	0.079	0.00073	0.015	0.058	145	54	122				JQY
Benzo(a)pyrene	0.054	0.00073	0.015	0.041	89.1	50	125				J
Benzo(b)fluoranthene	0.099	0.00073	0.015	0.094	31.0	53	128				JQ
Benzo(g,h,i)perylene	0.041	0.00073	0.015	0.029	80.3	49	127				J
Benzo(k)fluoranthene	0.021	0.00073	0.015	0.077	-380	56	123				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID: **1606506-006AMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87666**

Client ID: **ZZZZZZ** Batch ID: **40214** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/8/2016** SeqNo: **1703032**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.052	0.00073	0.015	0.042	74.1	57	118				J
Dibenzo(a,h)anthracene	0.021	0.00073	0.015	0.0053	111	50	129				
Fluoranthene	0.10	0.00073	0.015	0.091	90.4	55	119				J
Fluorene	0.015	0.00073	0.015	0.0035	81.8	47	114				
Indeno(1,2,3-cd)pyrene	0.034	0.00073	0.015	0.024	66.3	49	130				
Naphthalene	0.013	0.00073	0.015	0.0022	74.1	38	111				
Phenanthrene	0.070	0.00073	0.015	0.054	111	49	113				J
Pyrene	0.11	0.00073	0.015	0.086	132	55	117				JQ
Surr: 2-Fluorobiphenyl	15		18.14		82.8	46	115				
Surr: Nitrobenzene-d5	18		18.14		98.7	44	125				
Surr: Terphenyl-d14	19		18.14		107	58	133				

Sample ID: **1606506-006AMSD** Samp Type: **MSD** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87666**

Client ID: **ZZZZZZ** Batch ID: **40214** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/8/2016** SeqNo: **1703033**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.014	0.00073	0.014	0.0023	82.6	43	111	0.014	1.75	25	
2-Methylnaphthalene	0.014	0.00073	0.014	0.0023	83.3	39	114	0.015	3.65	25	
Acenaphthene	0.016	0.00073	0.014	0.0031	87.1	44	111	0.014	10.7	25	
Acenaphthylene	0.012	0.00073	0.014	0.00095	79.5	39	116	0.012	0.638	25	
Anthracene	0.021	0.00073	0.014	0.0089	84.5	50	114	0.020	4.30	25	
Benzo(a)anthracene	0.091	0.00073	0.014	0.058	230	54	122	0.079	14.3	25	JQY
Benzo(a)pyrene	0.059	0.00073	0.014	0.041	121	50	125	0.054	8.19	25	J
Benzo(b)fluoranthene	0.10	0.00073	0.014	0.094	64.7	53	128	0.099	4.79	25	J
Benzo(g,h,i)perylene	0.042	0.00073	0.014	0.029	92.7	49	127	0.041	4.24	25	J
Benzo(k)fluoranthene	0.024	0.00073	0.014	0.077	-361	56	123	0.021	12.8	25	Q
Chrysene	0.053	0.00073	0.014	0.042	77.8	57	118	0.052	0.923	25	J
Dibenzo(a,h)anthracene	0.023	0.00073	0.014	0.0053	122	50	129	0.021	7.47	25	
Fluoranthene	0.12	0.00073	0.014	0.091	171	55	119	0.10	10.6	25	JQ
Fluorene	0.017	0.00073	0.014	0.0035	91.7	47	114	0.015	8.65	25	
Indeno(1,2,3-cd)pyrene	0.036	0.00073	0.014	0.024	77.8	49	130	0.034	4.69	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID:	**1606506-006AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/21/2016**	RunNo:	**87666**
Client ID:	**ZZZZZZ**	Batch ID:	**40214**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/8/2016**	SeqNo:	**1703033**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.013	0.00073	0.014	0.0022	71.8	38	111	0.013	2.91	25	
Phenanthrene	0.082	0.00073	0.014	0.054	198	49	113	0.070	16.5	25	JQ
Pyrene	0.12	0.00073	0.014	0.086	203	55	117	0.11	9.26	25	JQ
Surr: 2-Fluorobiphenyl	15		18.07		83.1	46	115		0	25	
Surr: Nitrobenzene-d5	18		18.07		96.9	44	125		0	25	
Surr: Terphenyl-d14	18		18.07		102	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	MB-40223	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	PBS	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1687565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.016	0.16									U
1,2-Dichlorobenzene	0.016	0.16									U
1,3-Dichlorobenzene	0.016	0.16									U
1,4-Dichlorobenzene	0.016	0.16									U
2,4,5-Trichlorophenol	0.033	0.16									U
2,4,6-Trichlorophenol	0.033	0.16									U
2,4-Dichlorophenol	0.082	0.16									U
2,4-Dimethyl phenol	0.082	0.16									U
2,4-Dinitrophenol	0.16	0.82									U
2,4-Dinitrotoluene	0.016	0.16									U
2,6-Dinitrotoluene	0.016	0.16									U
2-Chloronaphthalene	0.016	0.16									U
2-Chlorophenol	0.082	0.16									U
2-Methylphenol (o-Cresol)	0.082	0.16									U
2-Nitroaniline	0.016	0.32									U
2-Nitrophenol	0.082	0.16									U
3,3´-Dichlorobenzidine	0.66	0.99									U
3-Nitroaniline	0.016	0.32									U
3/4-Methylphenol [m/p-Cresol]	0.082	0.32									U
4,6-Dinitro-2-methylphenol	0.082	0.32									U
4-Bromophenyl phenyl ether	0.082	0.20									U
4-Chloro-3-methylphenol	0.033	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.082	0.16									U
4-Chlorophenyl phenyl ether	0.016	0.16									U
4-Nitroaniline	0.082	0.32									U
4-Nitrophenol	0.33	0.82									UY
Benzoic acid	0.33	0.99									UYZ
Benzyl alcohol	0.016	0.65									U
Bis(2-chloroethoxy) methane	0.016	0.16									U
Bis(2-chloroethyl) ether	0.033	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	MB-40223	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	PBS	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1687565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.016	0.16									UYZ
Bis(2-ethylhexyl) phthalate	0.033	0.16									U
Butyl benzyl phthalate	0.033	0.16									U
Carbazole	0.016	0.16									U
Di-n-butyl phthalate	0.033	0.16									U
Di-n-octyl phthalate	0.016	0.16									U
Dibenzofuran	0.016	0.16									U
Diethyl phthalate	0.016	0.16									U
Dimethyl phthalate	0.016	0.16									U
Hexachlorobenzene	0.016	0.16									U
Hexachlorobutadiene	0.016	0.049									U
Hexachloroethane	0.016	0.16									U
Isophorone	0.016	0.16									U
N-Nitrosodi-n-propylamine	0.016	0.16									U
N-Nitrosodimethylamine	0.016	0.16									UY
N-Nitrosodiphenylamine	0.016	0.16									U
Nitrobenzene	0.016	0.16									U
Pentachlorophenol	0.082	0.16									U
Phenol	0.082	0.16									U
Surr: 2,4,6-Tribromophenol	630		821.6		76.8	39	132				
Surr: 2-Fluorobiphenyl	600		821.6		73.6	44	115				
Surr: 2-Fluorophenol	590		821.6		72.2	35	115				
Surr: Nitrobenzene-d5	640		821.6		77.8	37	122				
Surr: Phenol-d5	570		821.6		69.3	33	122				
Surr: Terphenyl-d14	660		821.6		80.2	54	127				

Sample ID:	LCS-40223	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	LCSS	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711442

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.40	0.16	0.66	0	61.4	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**LCS-40223**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**LCSS**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711442**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.39	0.16	0.66	0	59.6	33	117				
1,3-Dichlorobenzene	0.38	0.16	0.66	0	58.0	30	115				
1,4-Dichlorobenzene	0.38	0.16	0.66	0	57.5	31	115				
2,4,5-Trichlorophenol	0.43	0.16	0.66	0	65.0	41	124				
2,4,6-Trichlorophenol	0.46	0.16	0.66	0	70.1	39	126				
2,4-Dichlorophenol	0.46	0.16	0.66	0	70.2	40	122				
2,4-Dimethyl phenol	0.38	0.16	0.66	0	58.6	30	127				
2,4-Dinitrophenol	1.3	0.82	1.6	0	80.8	50	130				
2,4-Dinitrotoluene	0.47	0.16	0.66	0	72.0	48	126				
2,6-Dinitrotoluene	0.42	0.16	0.66	0	63.2	46	124				
2-Chloronaphthalene	0.36	0.16	0.66	0	55.3	41	114				
2-Chlorophenol	0.41	0.16	0.66	0	61.7	34	121				
2-Methylphenol (o-Cresol)	0.44	0.16	0.66	0	67.0	32	122				
2-Nitroaniline	0.39	0.32	0.66	0	58.7	44	127				
2-Nitrophenol	0.44	0.16	0.66	0	67.6	36	123				
3,3´-Dichlorobenzidine	0.66	0.99	0.66	0	0	22	121				QU
3-Nitroaniline	0.45	0.32	0.66	0	69.0	33	119				
3/4-Methylphenol [m/p-Cresol]	0.80	0.32	1.3	0	61.2	34	119				
4,6-Dinitro-2-methylphenol	0.52	0.32	0.66	0	79.8	29	132				
4-Bromophenyl phenyl ether	0.36	0.20	0.66	0	55.0	46	124				
4-Chloro-3-methylphenol	0.48	0.16	0.66	0	73.5	45	122				
4-Chloroaniline [p-Chloroaniline]	0.35	0.16	0.66	0	53.3	17	106				
4-Chlorophenyl phenyl ether	0.45	0.16	0.66	0	67.8	45	121				
4-Nitroaniline	0.37	0.32	0.66	0	56.2	50	130				
4-Nitrophenol	0.88	0.82	1.6	0	53.7	30	132				Y
Benzoic acid	0.58	0.99	1.3	0	44.1	40	117				JYZ
Benzyl alcohol	0.35	0.65	0.66	0	53.4	29	122				J
Bis(2-chloroethoxy) methane	0.36	0.16	0.66	0	54.6	36	121				
Bis(2-chloroethyl) ether	0.35	0.16	0.66	0	53.4	31	120				
Bis(2-chloroisopropyl)ether	0.38	0.16	0.66	0	57.4	33	131				YZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	LCS-40223	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	LCSS	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711442

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.42	0.16	0.66	0	64.4	51	133				
Butyl benzyl phthalate	0.41	0.16	0.66	0	61.7	48	132				
Carbazole	0.41	0.16	0.66	0	62.6	50	123				
Di-n-butyl phthalate	0.41	0.16	0.66	0	62.8	51	128				
Di-n-octyl phthalate	0.39	0.16	0.66	0	58.6	45	140				
Dibenzofuran	0.41	0.16	0.66	0	63.0	44	120				
Diethyl phthalate	0.44	0.16	0.66	0	67.5	50	124				
Dimethyl phthalate	0.41	0.16	0.66	0	63.0	48	124				
Hexachlorobenzene	0.37	0.16	0.66	0	55.8	45	122				
Hexachlorobutadiene	0.44	0.049	0.66	0	66.9	32	123				
Hexachloroethane	0.40	0.16	0.66	0	61.0	28	117				
Isophorone	0.37	0.16	0.66	0	56.4	30	122				
N-Nitrosodi-n-propylamine	0.40	0.16	0.66	0	61.1	50	130				
N-Nitrosodimethylamine	0.31	0.16	0.66	0	47.3	23	120				Y
N-Nitrosodiphenylamine	0.34	0.16	0.66	0	52.1	38	127				
Nitrobenzene	0.40	0.16	0.66	0	61.2	34	122				
Pentachlorophenol	0.39	0.16	0.66	0	59.4	25	133				
Phenol	0.40	0.16	0.66	0	61.3	34	121				
Surr: 2,4,6-Tribromophenol	620		821.0		75.2	39	132				
Surr: 2-Fluorobiphenyl	540		821.0		65.6	44	115				
Surr: 2-Fluorophenol	530		821.0		64.2	35	115				
Surr: Nitrobenzene-d5	570		821.0		70.0	37	122				
Surr: Phenol-d5	530		821.0		64.4	33	122				
Surr: Terphenyl-d14	600		821.0		72.8	54	127				

Sample ID:	1606467-010DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	WDS-SB10-08MS1	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711443

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.48	0.18	0.73	0	65.7	34	118				
1,2-Dichlorobenzene	0.48	0.18	0.73	0	65.5	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**1606467-010DMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**WDS-SB10-08MS1**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711443**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.46	0.18	0.73	0	62.9	30	115				
1,4-Dichlorobenzene	0.46	0.18	0.73	0	62.4	31	115				
2,4,5-Trichlorophenol	0.55	0.18	0.73	0	75.4	41	124				
2,4,6-Trichlorophenol	0.57	0.18	0.73	0	77.8	39	126				
2,4-Dichlorophenol	0.55	0.18	0.73	0	75.2	40	122				
2,4-Dimethyl phenol	0.46	0.18	0.73	0	62.9	30	127				
2,4-Dinitrophenol	1.9	0.91	1.8	0	101	50	130				J
2,4-Dinitrotoluene	0.59	0.18	0.73	0	80.2	48	126				
2,6-Dinitrotoluene	0.52	0.18	0.73	0	70.4	46	124				
2-Chloronaphthalene	0.44	0.18	0.73	0	60.5	41	114				
2-Chlorophenol	0.50	0.18	0.73	0	68.2	34	121				
2-Methylphenol (o-Cresol)	0.52	0.18	0.73	0	70.7	32	122				
2-Nitroaniline	0.48	0.35	0.73	0	65.0	44	127				
2-Nitrophenol	0.54	0.18	0.73	0	73.5	36	123				
3,3´-Dichlorobenzidine	0.73	1.1	0.73	0	0	22	121				QU
3-Nitroaniline	0.54	0.35	0.73	0	73.2	33	119				
3/4-Methylphenol [m/p-Cresol]	0.97	0.35	1.5	0	66.4	42	126				
4,6-Dinitro-2-methylphenol	0.64	0.35	0.73	0	86.6	29	132				
4-Bromophenyl phenyl ether	0.45	0.22	0.73	0	61.8	46	124				
4-Chloro-3-methylphenol	0.57	0.18	0.73	0	77.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.41	0.18	0.73	0	56.0	17	106				
4-Chlorophenyl phenyl ether	0.53	0.18	0.73	0	72.6	45	121				
4-Nitroaniline	0.44	0.35	0.73	0	60.0	50	130				
4-Nitrophenol	1.2	0.91	1.8	0	67.2	30	132				Y
Benzoic acid	1.5	1.1	1.5	0	105	40	117				YZ
Benzyl alcohol	0.41	0.73	0.73	0	56.0	29	122				J
Bis(2-chloroethoxy) methane	0.44	0.18	0.73	0	59.6	36	121				
Bis(2-chloroethyl) ether	0.44	0.18	0.73	0	59.7	31	120				
Bis(2-chloroisopropyl)ether	0.47	0.18	0.73	0	63.8	33	131				YZ
Bis(2-ethylhexyl) phthalate	0.52	0.18	0.73	0	71.1	51	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	1606467-010DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	WDS-SB10-08MS1	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711443

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.49	0.18	0.73	0	66.6	48	132				
Carbazole	0.50	0.18	0.73	0	68.0	50	123				
Di-n-butyl phthalate	0.50	0.18	0.73	0	68.0	51	128				
Di-n-octyl phthalate	0.48	0.18	0.73	0	65.9	45	140				
Dibenzofuran	0.51	0.18	0.73	0	69.0	44	120				
Diethyl phthalate	0.54	0.18	0.73	0	74.2	50	124				
Dimethyl phthalate	0.51	0.18	0.73	0	69.1	48	124				
Hexachlorobenzene	0.46	0.18	0.73	0	62.4	45	122				
Hexachlorobutadiene	0.53	0.055	0.73	0	72.6	32	123				
Hexachloroethane	0.48	0.18	0.73	0	65.7	28	117				
Isophorone	0.45	0.18	0.73	0	61.1	30	122				
N-Nitrosodi-n-propylamine	0.47	0.18	0.73	0	63.9	50	130				
N-Nitrosodimethylamine	0.38	0.18	0.73	0	51.6	23	120				Y
N-Nitrosodiphenylamine	0.43	0.18	0.73	0	58.2	38	127				
Nitrobenzene	0.51	0.18	0.73	0	69.5	34	122				
Pentachlorophenol	0.56	0.18	0.73	0	77.0	25	133				
Phenol	0.49	0.18	0.73	0	67.1	34	121				
Surr: 2,4,6-Tribromophenol	750		916.4		82.3	39	132				
Surr: 2-Fluorobiphenyl	660		916.4		71.9	44	115				
Surr: 2-Fluorophenol	630		916.4		68.8	35	115				
Surr: Nitrobenzene-d5	690		916.4		75.0	37	122				
Surr: Phenol-d5	640		916.4		70.2	33	122				
Surr: Terphenyl-d14	720		916.4		78.9	54	127				

Sample ID:	1606467-010DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	WDS-SB10-08SD1	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711444

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.45	0.18	0.73	0	61.9	34	118	0.48	5.92	25	
1,2-Dichlorobenzene	0.45	0.18	0.73	0	61.2	33	117	0.48	6.75	25	
1,3-Dichlorobenzene	0.43	0.18	0.73	0	59.0	30	115	0.46	6.28	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**1606467-010DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**WDS-SB10-08SD1**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711444**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.44	0.18	0.73	0	60.0	31	115	0.46	3.89	25	
2,4,5-Trichlorophenol	0.51	0.18	0.73	0	69.0	41	124	0.55	8.76	25	
2,4,6-Trichlorophenol	0.52	0.18	0.73	0	70.7	39	126	0.57	9.59	25	
2,4-Dichlorophenol	0.53	0.18	0.73	0	72.2	40	122	0.55	3.97	25	
2,4-Dimethyl phenol	0.41	0.18	0.73	0	56.5	30	127	0.46	10.8	25	
2,4-Dinitrophenol	1.6	0.91	1.8	0	86.0	50	130	1.9	16.3	25	
2,4-Dinitrotoluene	0.54	0.18	0.73	0	73.4	48	126	0.59	8.82	25	
2,6-Dinitrotoluene	0.48	0.18	0.73	0	65.0	46	124	0.52	7.94	25	
2-Chloronaphthalene	0.40	0.18	0.73	0	54.9	41	114	0.44	9.58	25	
2-Chlorophenol	0.46	0.18	0.73	0	62.3	34	121	0.50	8.93	25	
2-Methylphenol (o-Cresol)	0.47	0.18	0.73	0	63.4	32	122	0.52	10.8	25	
2-Nitroaniline	0.42	0.35	0.73	0	57.8	44	127	0.48	11.7	25	
2-Nitrophenol	0.51	0.18	0.73	0	68.9	36	123	0.54	6.36	25	
3,3´-Dichlorobenzidine	0.73	1.1	0.73	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.50	0.35	0.73	0	67.6	33	119	0.54	7.92	25	
3/4-Methylphenol [m/p-Cresol]	0.91	0.35	1.5	0	62.0	42	126	0.97	6.83	25	
4,6-Dinitro-2-methylphenol	0.58	0.35	0.73	0	79.7	29	132	0.64	8.32	25	
4-Bromophenyl phenyl ether	0.42	0.22	0.73	0	57.9	46	124	0.45	6.48	25	
4-Chloro-3-methylphenol	0.54	0.18	0.73	0	73.3	45	122	0.57	5.15	25	
4-Chloroaniline [p-Chloroaniline]	0.39	0.18	0.73	0	52.6	17	106	0.41	6.22	25	
4-Chlorophenyl phenyl ether	0.50	0.18	0.73	0	68.0	45	121	0.53	6.58	25	
4-Nitroaniline	0.38	0.35	0.73	0	51.2	50	130	0.44	15.8	25	
4-Nitrophenol	1.1	0.91	1.8	0	58.8	30	132	1.2	13.2	25	Y
Benzoic acid	1.6	1.1	1.5	0	108	40	117	1.5	3.39	25	YZ
Benzyl alcohol	0.37	0.73	0.73	0	51.1	29	122	0.41	9.12	25	J
Bis(2-chloroethoxy) methane	0.41	0.18	0.73	0	56.3	36	121	0.44	5.66	25	
Bis(2-chloroethyl) ether	0.41	0.18	0.73	0	55.7	31	120	0.44	6.98	25	
Bis(2-chloroisopropyl)ether	0.44	0.18	0.73	0	59.7	33	131	0.47	6.60	25	YZ
Bis(2-ethylhexyl) phthalate	0.45	0.18	0.73	0	61.6	51	133	0.52	14.4	25	
Butyl benzyl phthalate	0.43	0.18	0.73	0	58.8	48	132	0.49	12.4	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	1606467-010DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	WDS-SB10-08SD1	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711444

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.44	0.18	0.73	0	60.4	50	123	0.50	11.9	25	
Di-n-butyl phthalate	0.44	0.18	0.73	0	60.0	51	128	0.50	12.4	25	
Di-n-octyl phthalate	0.42	0.18	0.73	0	56.9	45	140	0.48	14.6	25	
Dibenzofuran	0.47	0.18	0.73	0	63.7	44	120	0.51	7.95	25	
Diethyl phthalate	0.49	0.18	0.73	0	66.8	50	124	0.54	10.5	25	
Dimethyl phthalate	0.46	0.18	0.73	0	63.4	48	124	0.51	8.57	25	
Hexachlorobenzene	0.41	0.18	0.73	0	55.3	45	122	0.46	12.1	25	
Hexachlorobutadiene	0.49	0.055	0.73	0	66.7	32	123	0.53	8.51	25	
Hexachloroethane	0.45	0.18	0.73	0	61.1	28	117	0.48	7.30	25	
Isophorone	0.42	0.18	0.73	0	57.7	30	122	0.45	5.60	25	
N-Nitrosodi-n-propylamine	0.44	0.18	0.73	0	59.8	50	130	0.47	6.59	25	
N-Nitrosodimethylamine	0.37	0.18	0.73	0	50.2	23	120	0.38	2.81	25	Y
N-Nitrosodiphenylamine	0.38	0.18	0.73	0	52.3	38	127	0.43	10.6	25	
Nitrobenzene	0.45	0.18	0.73	0	61.2	34	122	0.51	12.7	25	
Pentachlorophenol	0.55	0.18	0.73	0	75.2	25	133	0.56	2.33	25	
Phenol	0.47	0.18	0.73	0	63.5	34	121	0.49	5.48	25	
Surr: 2,4,6-Tribromophenol	630		916.7		68.7	39	132		0	25	
Surr: 2-Fluorobiphenyl	590		916.7		64.6	44	115		0	25	
Surr: 2-Fluorophenol	570		916.7		62.2	35	115		0	25	
Surr: Nitrobenzene-d5	640		916.7		70.0	37	122		0	25	
Surr: Phenol-d5	600		916.7		65.3	33	122		0	25	
Surr: Terphenyl-d14	630		916.7		68.8	54	127		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	**MB-40258**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/26/2016**	RunNo:	**87700**
Client ID:	**PBS**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/22/2016**	SeqNo:	**1703881**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	15		16.61		91.5	46	115				
Surr: Nitrobenzene-d5	16		16.61		96.3	44	125				
Surr: Terphenyl-d14	17		16.61		101	58	133				

Sample ID:	**1606467-016DMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/26/2016**	RunNo:	**87700**
Client ID:	**H18-SS01-01MS1**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/22/2016**	SeqNo:	**1703884**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.00072	0.014	0	139	43	111				Q
2-Methylnaphthalene	0.018	0.00072	0.014	0	128	39	114				Q
Acenaphthene	0.023	0.00072	0.014	0.013	64.3	44	111				
Acenaphthylene	0.016	0.00072	0.014	0	109	39	116				
Anthracene	0.036	0.00072	0.014	0.035	0.904	50	114				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID: **1606467-016DMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/26/2016** RunNo: **87700**

Client ID: **H18-SS01-01MS1** Batch ID: **40258** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/22/2016** SeqNo: **1703884**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.12	0.00072	0.014	0.12	10.1	54	122				JQ
Benzo(a)pyrene	0.10	0.00072	0.014	0.10	-3.83	50	125				JQ
Benzo(b)fluoranthene	0.15	0.00072	0.014	0.14	108	53	128				J
Benzo(g,h,i)perylene	0.052	0.00072	0.014	0.055	-16.1	49	127				JQ
Benzo(k)fluoranthene	0.053	0.00072	0.014	0.065	-83.8	56	123				JQ
Chrysene	0.11	0.00072	0.014	0.12	-47.9	57	118				JQ
Dibenzo(a,h)anthracene	0.020	0.00072	0.014	0.0099	71.4	50	129				
Fluoranthene	0.26	0.00072	0.014	0.30	-253	55	119				JQ
Fluorene	0.024	0.00072	0.014	0.015	62.9	47	114				
Indeno(1,2,3-cd)pyrene	0.067	0.00072	0.014	0.066	5.55	49	130				JQ
Naphthalene	0.018	0.00072	0.014	0	124	38	111				Q
Phenanthrene	0.15	0.00072	0.014	0.18	-194	49	113				JQ
Pyrene	0.21	0.00072	0.014	0.23	-119	55	117				JQ
Surr: 2-Fluorobiphenyl	19		17.91		104	46	115				
Surr: Nitrobenzene-d5	21		17.91		119	44	125				
Surr: Terphenyl-d14	22		17.91		121	58	133				

Sample ID: **1606467-016DMSD** Samp Type: **MSD** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/26/2016** RunNo: **87700**

Client ID: **H18-SS01-01SD1** Batch ID: **40258** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/22/2016** SeqNo: **1703885**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.028	0.00072	0.014	0	196	43	111	0.020	33.9	25	RQ
2-Methylnaphthalene	0.026	0.00072	0.014	0	182	39	114	0.018	34.9	25	RQ
Acenaphthene	0.049	0.00072	0.014	0.013	248	44	111	0.023	73.6	25	JRQ
Acenaphthylene	0.019	0.00072	0.014	0	133	39	116	0.016	19.4	25	Q
Anthracene	0.075	0.00072	0.014	0.035	280	50	114	0.036	71.9	25	JRQ
Benzo(a)anthracene	0.22	0.00072	0.014	0.12	733	54	122	0.12	60.4	25	JRQ
Benzo(a)pyrene	0.17	0.00072	0.014	0.10	467	50	125	0.10	50.2	25	JRQ
Benzo(b)fluoranthene	0.25	0.00072	0.014	0.14	764	53	128	0.15	46.6	25	JRQ
Benzo(g,h,i)perylene	0.083	0.00072	0.014	0.055	197	49	127	0.052	45.0	25	JRQ
Benzo(k)fluoranthene	0.095	0.00072	0.014	0.065	211	56	123	0.053	57.1	25	JRQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	1606467-016DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87700
Client ID:	H18-SS01-01SD1	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	7/22/2016	SeqNo:	1703885

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.19	0.00072	0.014	0.12	552	57	118	0.11	56.5	25	JRQ
Dibenzo(a,h)anthracene	0.031	0.00072	0.014	0.0099	149	50	129	0.020	43.2	25	RQ
Fluoranthene	0.52	0.00072	0.014	0.30	1,530	55	119	0.26	65.8	25	JRQ
Fluorene	0.058	0.00072	0.014	0.015	301	47	114	0.024	82.9	25	JRQ
Indeno(1,2,3-cd)pyrene	0.11	0.00072	0.014	0.066	283	49	130	0.067	45.5	25	JRQ
Naphthalene	0.028	0.00072	0.014	0	194	38	111	0.018	44.0	25	RQ
Phenanthrene	0.38	0.00072	0.014	0.18	1,410	49	113	0.15	87.3	25	JRQ
Pyrene	0.40	0.00072	0.014	0.23	1,220	55	117	0.21	62.3	25	JRQ
Surr: 2-Fluorobiphenyl	22		17.87		123	46	115		0	25	Q
Surr: Nitrobenzene-d5	26		17.87		143	44	125		0	25	Q
Surr: Terphenyl-d14	26		17.87		144	58	133		0	25	Q

Sample ID:	LCS-40258	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.015	0.00065	0.013	0	115	43	111				Q
2-Methylnaphthalene	0.014	0.00065	0.013	0	104	39	114				
Acenaphthene	0.013	0.00065	0.013	0	103	44	111				
Acenaphthylene	0.014	0.00065	0.013	0	107	39	116				
Anthracene	0.014	0.00065	0.013	0	109	50	114				
Benzo(a)anthracene	0.015	0.00065	0.013	0	117	54	122				
Benzo(a)pyrene	0.013	0.00065	0.013	0	103	50	125				
Benzo(b)fluoranthene	0.016	0.00065	0.013	0	120	53	128				
Benzo(g,h,i)perylene	0.0089	0.00065	0.013	0	68.2	49	127				
Benzo(k)fluoranthene	0.016	0.00065	0.013	0	122	56	123				
Chrysene	0.014	0.00065	0.013	0	108	57	118				
Dibenzo(a,h)anthracene	0.010	0.00065	0.013	0	78.6	50	129				
Fluoranthene	0.015	0.00065	0.013	0	113	55	119				
Fluorene	0.014	0.00065	0.013	0	104	47	114				
Indeno(1,2,3-cd)pyrene	0.0089	0.00065	0.013	0	68.2	49	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	LCS-40258	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.013	0.00065	0.013	0	100	38	111				
Phenanthrene	0.014	0.00065	0.013	0	104	49	113				
Pyrene	0.014	0.00065	0.013	0	110	55	117				
Surr: 2-Fluorobiphenyl	20		16.26		124	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		145	44	125				Q
Surr: Terphenyl-d14	22		16.26		134	58	133				Q

Sample ID:	1-MB-40258	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	88049
Client ID:	PBS	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	7/22/2016	SeqNo:	1711955

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	15		16.61		91.5	46	115				
Surr: Nitrobenzene-d5	16		16.61		96.3	44	125				
Surr: Terphenyl-d14	17		16.61		101	58	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	1-LCS-40258	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	88049
Client ID:	LCSS	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	7/22/2016	SeqNo:	1711956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.016	0.00065	0.013	0	120	44	111				Q
Acenaphthylene	0.016	0.00065	0.013	0	120	39	116				Q
Anthracene	0.015	0.00065	0.013	0	116	50	114				Q
Benzo(a)anthracene	0.017	0.00065	0.013	0	133	54	122				Q
Benzo(a)pyrene	0.016	0.00065	0.013	0	121	50	125				
Benzo(b)fluoranthene	0.019	0.00065	0.013	0	148	53	128				Q
Benzo(g,h,i)perylene	0.016	0.00065	0.013	0	123	49	127				
Benzo(k)fluoranthene	0.014	0.00065	0.013	0	111	56	123				
Chrysene	0.016	0.00065	0.013	0	121	57	118				Q
Dibenzo(a,h)anthracene	0.016	0.00065	0.013	0	123	50	129				
Fluoranthene	0.016	0.00065	0.013	0	122	55	119				Q
Fluorene	0.015	0.00065	0.013	0	118	47	114				Q
Indeno(1,2,3-cd)pyrene	0.020	0.00065	0.013	0	151	49	130				Q
Phenanthrene	0.016	0.00065	0.013	0	120	49	113				Q
Pyrene	0.016	0.00065	0.013	0	126	55	117				Q
Surr: 2-Fluorobiphenyl	23		16.26		141	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		149	44	125				Q
Surr: Terphenyl-d14	24		16.26		150	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40277**

Sample ID:	MB-40277	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87192
Client ID:	PBS	Batch ID:	40277	TestNo:	SW6010B	SW3050B		Analysis Date:	7/7/2016	SeqNo:	1692513

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	1.0	5.0									U

Sample ID:	LCS-40277	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87192
Client ID:	LCSS	Batch ID:	40277	TestNo:	SW6010B	SW3050B		Analysis Date:	7/7/2016	SeqNo:	1692514

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	25	5.0	25	0	101	81	112				

Sample ID:	1606467-004EMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87192
Client ID:	P113-SS02-01MS1	Batch ID:	40277	TestNo:	SW6010B	SW3050B		Analysis Date:	7/7/2016	SeqNo:	1692516

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	25	3.9	20	4.3	104	81	112				

Sample ID:	1606467-004EMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87192
Client ID:	P113-SS02-01SD1	Batch ID:	40277	TestNo:	SW6010B	SW3050B		Analysis Date:	7/7/2016	SeqNo:	1692517

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	22	3.9	19	4.3	92.5	81	112	25	11.0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	MB-40280	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	PBS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706006

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	19		16.27		116	46	115				Q
Surr: Nitrobenzene-d5	21		16.27		126	44	125				Q
Surr: Terphenyl-d14	21		16.27		128	58	133				

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	21		16.66		125	46	115				Q
Surr: Nitrobenzene-d5	23		16.66		140	44	125				Q
Surr: Terphenyl-d14	22		16.66		133	58	133				Q

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	23		19.72		119	46	115				Q
Surr: Nitrobenzene-d5	28		19.72		142	44	125				Q
Surr: Terphenyl-d14	28		19.72		144	58	133				Q

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706920

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	25		19.41		129	46	115		0	25	Q
Surr: Nitrobenzene-d5	29		19.41		151	44	125		0	25	Q
Surr: Terphenyl-d14	29		19.41		150	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40282**

Sample ID:	MB-40282	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	PBS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697068

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	2.0	5.0									U
Antimony	0.50	1.0									U
Arsenic	1.0	2.0									U
Barium	5.0	10									U
Beryllium	0.050	0.25									U
Cadmium	0.050	0.25									U
Calcium	10	50									U
Chromium	0.40	0.50									U
Cobalt	0.25	1.0									UG
Copper	1.0	5.0									U
Iron	5.0	15									U
Lead	1.0	5.0									U
Magnesium	5.0	50									U
Manganese	0.25	1.0									U
Nickel	1.0	5.0									U
Potassium	10	20									U
Selenium	1.5	2.0									U
Silver	0.25	1.0									U
Sodium	5.0	50									U
Vanadium	1.0	2.5									U
Zinc	0.50	5.0									U

Sample ID:	LCS-40282	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	LCSS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697069

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	26	5.0	25	0	104	74	119				
Antimony	23	1.0	25	0	90.1	79	114				
Arsenic	23	2.0	25	0	91.3	82	111				
Barium	25	10	25	0	98.9	83	113				
Beryllium	24	0.25	25	0	95.9	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40282**

Sample ID:	LCS-40282	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	LCSS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697069

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	22	0.25	25	0	89.8	82	113				
Calcium	230	50	250	0	90.7	81	116				
Chromium	23	0.50	25	0	92.6	85	113				
Cobalt	24	1.0	25	0	95.3	85	112				G
Copper	26	5.0	25	0	103	81	117				
Iron	230	15	250	0	93.4	81	118				
Lead	24	5.0	25	0	97.2	81	112				
Magnesium	230	50	250	0	93.4	78	115				
Manganese	26	1.0	25	0	104	84	114				
Nickel	23	5.0	25	0	90.5	83	113				
Potassium	240	20	250	0	94.4	81	116				
Selenium	25	2.0	25	0	100	78	111				
Silver	23	1.0	25	0	90.1	82	112				
Sodium	230	50	250	0	93.0	83	118				
Vanadium	23	2.5	25	0	93.0	82	114				
Zinc	23	5.0	25	0	91.5	82	113				

Sample ID:	1606506-006CMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	ZZZZZZ	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,200	3.5	18	7,700	2,770	74	119				Q
Antimony	17	0.71	18	2.4	83.7	79	114				
Arsenic	17	1.4	18	2.7	79.2	82	111				Q
Barium	39	7.1	18	16	128	83	113				Q
Beryllium	16	0.18	18	0	88.7	83	113				
Cadmium	16	0.18	18	0.032	87.6	82	113				
Calcium	1,100	35	180	660	240	81	116				Q
Chromium	27	0.35	18	12	86.0	85	113				
Cobalt	17	0.71	18	2.6	83.3	85	112				QG
Copper	44	3.5	18	25	106	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40282**

Sample ID: **1606506-006CMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **87406**

Client ID: **ZZZZZZ** Batch ID: **40282** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/14/2016** SeqNo: **1697108**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,800	11	180	9,500	133	81	118				JQ
Lead	27	3.5	18	8.1	108	81	112				
Magnesium	1,300	35	180	960	178	78	115				Q
Manganese	180	0.71	18	140	202	84	114				Q
Nickel	22	3.5	18	5.3	91.9	83	113				
Potassium	720	14	180	420	169	81	116				Q
Selenium	12	1.4	18	0	69.3	78	111				Q
Silver	15	0.71	18	0	86.7	82	112				
Sodium	240	35	180	66	95.6	83	118				
Vanadium	33	1.8	18	19	82.2	82	114				
Zinc	32	3.5	18	14	97.6	82	113				

Sample ID: **1606506-006CMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **87406**

Client ID: **ZZZZZZ** Batch ID: **40282** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/14/2016** SeqNo: **1697109**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,200	3.5	18	7,700	-3,020	74	119	8,200	13.3	20	Q
Antimony	17	0.70	18	2.4	85.5	79	114	17	1.25	20	
Arsenic	17	1.4	18	2.7	81.7	82	111	17	2.06	20	Q
Barium	35	7.0	18	16	105	83	113	39	11.4	20	
Beryllium	16	0.18	18	0	92.1	83	113	16	3.05	20	
Cadmium	16	0.18	18	0.032	89.8	82	113	16	1.88	20	
Calcium	890	35	180	660	133	81	116	1,100	19.3	20	Q
Chromium	26	0.35	18	12	84.5	85	113	27	1.33	20	Q
Cobalt	18	0.70	18	2.6	87.0	85	112	17	3.23	20	G
Copper	41	3.5	18	25	91.2	81	117	44	6.29	20	
Iron	8,900	11	180	9,500	-384	81	118	9,800	9.77	20	JQ
Lead	26	3.5	18	8.1	101	81	112	27	5.11	20	
Magnesium	1,100	35	180	960	83.6	78	115	1,300	14.1	20	
Manganese	160	0.70	18	140	134	84	114	180	7.10	20	Q
Nickel	21	3.5	18	5.3	89.5	83	113	22	2.46	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40282**

Sample ID:	1606506-006CMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	ZZZZZZ	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697109

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	620	14	180	420	118	81	116	720	13.8	20	Q
Selenium	15	1.4	18	0	83.4	78	111	12	17.8	20	
Silver	15	0.70	18	0	88.1	82	112	15	0.935	20	
Sodium	240	35	180	66	98.0	83	118	240	1.32	20	
Vanadium	33	1.8	18	19	80.2	82	114	33	1.31	20	Q
Zinc	30	3.5	18	14	87.3	82	113	32	6.21	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40297**

Sample ID:	MB-40297	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87077
Client ID:	PBS	Batch ID:	40297	TestNo:	SW6010B	SW3050B		Analysis Date:	6/30/2016	SeqNo:	1689247

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	1.0	5.0									U

Sample ID:	LCS-40297	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87077
Client ID:	LCSS	Batch ID:	40297	TestNo:	SW6010B	SW3050B		Analysis Date:	6/30/2016	SeqNo:	1689248

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	25	5.0	25	0	99.7	81	112				

Sample ID:	1606603-010AMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87077
Client ID:	ZZZZZZ	Batch ID:	40297	TestNo:	SW6010B	SW3050B		Analysis Date:	6/30/2016	SeqNo:	1689250

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	22	3.8	19	3.5	100	81	112				

Sample ID:	1606603-010AMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87077
Client ID:	ZZZZZZ	Batch ID:	40297	TestNo:	SW6010B	SW3050B		Analysis Date:	6/30/2016	SeqNo:	1689251

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	22	3.8	19	3.5	98.2	81	112	22	0.429	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40321**

Sample ID:	LCS-40321	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87279
Client ID:	LCSS	Batch ID:	40321	TestNo:	SW8082	SW3546		Analysis Date:	7/7/2016	SeqNo:	1694036

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.033	0.16	0	91.8	46	129				
Aroclor 1260	0.16	0.033	0.16	0	96.7	45	134				
Surr: Tetrachloro-m-xylene	6.5		8.245		78.9	44	130				
Surr: Decachlorobiphenyl	7.4		8.245		89.2	40	135				

Sample ID:	LCSD-40321	Samp Type:	LCSD	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87279
Client ID:	LCSS02	Batch ID:	40321	TestNo:	SW8082	SW3546		Analysis Date:	7/7/2016	SeqNo:	1694037

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.033	0.17	0	87.1	46	129	0.15	4.34	25	
Aroclor 1260	0.15	0.033	0.17	0	92.0	45	134	0.16	4.11	25	
Surr: Tetrachloro-m-xylene	6.2		8.322		74.1	44	130		0	25	
Surr: Decachlorobiphenyl	7.0		8.322		83.6	40	135		0	25	

Sample ID:	MB-40321	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87279
Client ID:	PBS	Batch ID:	40321	TestNo:	SW8082	SW3546		Analysis Date:	7/7/2016	SeqNo:	1694038

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.0067	0.033									U
Aroclor 1221	0.0067	0.033									U
Aroclor 1232	0.0067	0.033									U
Aroclor 1242	0.0067	0.033									U
Aroclor 1248	0.0067	0.033									U
Aroclor 1254	0.0067	0.033									U
Aroclor 1260	0.0067	0.033									U
Aroclor 1262	0.0067	0.033									U
Aroclor 1268	0.0067	0.033									U
Surr: Tetrachloro-m-xylene	7.6		8.311		91.4	44	130				
Surr: Decachlorobiphenyl	8.1		8.311		97.1	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40444**

Sample ID:	LCS-40444	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87409
Client ID:	LCSS	Batch ID:	40444	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697482

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.9	0.20	10	0	98.9	83	118				

Sample ID:	MB-40444	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87409
Client ID:	PBS	Batch ID:	40444	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697483

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.050	0.20									U

Sample ID:	1606425-005BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40444	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697484

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.2	0.14	7.1	0.22	84.4	83	118				

Sample ID:	1606425-005BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40444	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697485

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.5	0.14	7.0	0.22	90.2	83	118	6.2	5.21	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40482**

Sample ID:	1606467-020FMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87520
Client ID:	H18-SS02-02MS1	Batch ID:	40482	TestNo:	SW6020A	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1699649

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.4	0.13	6.7	0.041	94.6	83	118				G

Sample ID:	1606467-020FMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87520
Client ID:	H18-SS02-02SD1	Batch ID:	40482	TestNo:	SW6020A	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1699650

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.4	0.14	6.8	0.041	108	83	118	6.4	13.5	20	G

Sample ID:	LCS-40482	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87520
Client ID:	LCSS	Batch ID:	40482	TestNo:	SW6020A	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1699651

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	10	0.20	10	0	100	83	118				G

Sample ID:	MB-40482	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87520
Client ID:	PBS	Batch ID:	40482	TestNo:	SW6020A	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1699652

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.050	0.20									UG

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40483**

Sample ID:	1606601-008BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	ZZZZZZ	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699789

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.039	0.20	0	66.7	46	129				
Aroclor 1260	0.16	0.039	0.20	0	83.0	45	134				
Surr: Tetrachloro-m-xylene	6.3		9.865		64.2	44	130				
Surr: Decachlorobiphenyl	7.9		9.865		80.5	40	135				

Sample ID:	1606601-008BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	ZZZZZZ	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699790

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.039	0.20	0	75.5	46	129	0.13	11.2	25	
Aroclor 1260	0.18	0.039	0.20	0	93.9	45	134	0.16	11.2	25	
Surr: Tetrachloro-m-xylene	7.0		9.755		71.9	44	130		0	25	
Surr: Decachlorobiphenyl	8.7		9.755		89.7	40	135		0	25	

Sample ID:	LCS-40483	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	LCSS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699817

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.19	0.033	0.16	0	113	46	129				
Aroclor 1260	0.20	0.033	0.16	0	121	45	134				
Surr: Tetrachloro-m-xylene	8.6		8.234		105	44	130				
Surr: Decachlorobiphenyl	9.7		8.234		118	40	135				

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.0066	0.033									U
Aroclor 1221	0.0066	0.033									U
Aroclor 1232	0.0066	0.033									U
Aroclor 1242	0.0066	0.033									U
Aroclor 1248	0.0066	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40483**

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.0066	0.033									U
Aroclor 1260	0.0066	0.033									U
Aroclor 1262	0.0066	0.033									U
Aroclor 1268	0.0066	0.033									U
Surr: Tetrachloro-m-xylene	7.5		8.297		90.5	44	130				
Surr: Decachlorobiphenyl	8.3		8.297		99.9	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86700**

Sample ID:	**VOA11B LCS2 0615**	Samp Type:	**LCS**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86700**
Client ID:	**LCSS**	Batch ID:	**R86700**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1682058**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0092	0.0010	0.010	0	92.5	78	125				
1,1,1-Trichloroethane	0.0093	0.0010	0.010	0	92.7	73	130				
1,1,2,2-Tetrachloroethane	0.011	0.0010	0.010	0	113	70	124				
1,1,2-Trichloroethane	0.011	0.0010	0.010	0	106	78	121				
1,1-Dichloroethane	0.010	0.0010	0.010	0	101	76	125				
1,1-Dichloroethene	0.0098	0.0010	0.010	0	98.3	70	131				
1,2,3-Trichloropropane	0.013	0.0010	0.010	0	127	73	125				Q
1,2-Dibromo-3-chloropropane	0.0096	0.0050	0.010	0	96.5	61	132				
1,2-Dibromoethane	0.010	0.0010	0.010	0	105	78	122				
1,2-Dichloroethane	0.011	0.0010	0.010	0	114	73	128				
1,2-Dichloropropane	0.010	0.0010	0.010	0	99.7	76	123				
2-Butanone [MEK]	0.012	0.020	0.010	0	121	51	148				J
2-Hexanone	0.011	0.0050	0.010	0	110	53	145				Y
Acetone	0.020	0.010	0.010	0	203	36	164				QYB
Benzene	0.0098	0.0010	0.010	0	98.5	77	121				
Bromodichloromethane	0.0099	0.0010	0.010	0	98.7	75	127				
Bromoform	0.0070	0.0010	0.010	0	70.4	67	132				
Carbon disulfide	0.0088	0.0010	0.010	0	87.7	63	132				
Carbon tetrachloride	0.0091	0.0010	0.010	0	91.2	70	135				
Chlorobenzene	0.0091	0.0010	0.010	0	91.1	79	120				
Chlorodibromomethane	0.0079	0.0010	0.010	0	78.8	74	126				
Chloroethane	0.012	0.0020	0.010	0	118	59	139				
Chloroform	0.0098	0.0010	0.010	0	97.6	78	123				
Chloromethane	0.012	0.0010	0.010	0	119	50	136				
cis-1,2-Dichloroethene	0.010	0.0010	0.010	0	101	77	123				
cis-1,3-Dichloropropene	0.0077	0.0010	0.010	0	77.1	74	126				
Dichlorodifluoromethane [Freon-12]	0.011	0.0010	0.010	0	107	29	149				
Ethylbenzene	0.0087	0.0010	0.010	0	87.0	76	122				
Methylene chloride	0.019	0.0050	0.010	0	191	70	128				QYB
Styrene	0.0078	0.0010	0.010	0	78.4	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86700

Sample ID:	VOA11B LCS2 0615	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86700
Client ID:	LCSS	Batch ID:	R86700	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1682058

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0082	0.0010	0.010	0	82.5	73	128				
Toluene	0.0094	0.0010	0.010	0	93.9	77	121				
trans-1,2-Dichloroethene	0.010	0.0010	0.010	0	103	74	125				
trans-1,3-Dichloropropene	0.0079	0.0010	0.010	0	78.6	71	130				
Trichloroethene	0.0090	0.0010	0.010	0	90.2	77	123				
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	113	62	140				
Vinyl acetate	0.014	0.0050	0.010	0	135	50	151				Y
Vinyl chloride	0.011	0.00080	0.010	0	113	56	135				
Xylene (Total)	0.026	0.0030	0.030	0	87.9	78	124				
Surr: 4-Bromofluorobenzene	58		60.00		96.5	79	119				
Surr: Dibromofluoromethane	58		60.00		97.2	78	119				
Surr: Toluene-d8	57		60.00		95.8	85	116				

Sample ID:	VOA11B LCSD2 061	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/15/2016	RunNo:	86700
Client ID:	LCSS02	Batch ID:	R86700	TestNo:	SW8260B			Analysis Date:	6/15/2016	SeqNo:	1682059

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0087	0.0010	0.010	0	86.9	78	125	0.0092	6.24	25	
1,1,1-Trichloroethane	0.0087	0.0010	0.010	0	87.0	73	130	0.0093	6.34	25	
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	102	70	124	0.011	10.1	25	
1,1,2-Trichloroethane	0.0098	0.0010	0.010	0	97.6	78	121	0.011	7.87	25	
1,1-Dichloroethane	0.0097	0.0010	0.010	0	96.6	76	125	0.010	4.85	25	
1,1-Dichloroethene	0.0094	0.0010	0.010	0	93.5	70	131	0.0098	5.01	25	
1,2,3-Trichloropropane	0.011	0.0010	0.010	0	110	73	125	0.013	14.2	25	
1,2-Dibromo-3-chloropropane	0.0082	0.0050	0.010	0	81.9	61	132	0.0096	16.4	25	
1,2-Dibromoethane	0.0098	0.0010	0.010	0	98.0	78	122	0.010	6.61	25	
1,2-Dichloroethane	0.011	0.0010	0.010	0	111	73	128	0.011	2.67	25	
1,2-Dichloropropane	0.0095	0.0010	0.010	0	95.1	76	123	0.010	4.72	25	
2-Butanone [MEK]	0.011	0.020	0.010	0	111	51	148	0.012	8.59	25	J
2-Hexanone	0.0095	0.0050	0.010	0	95.3	53	145	0.011	14.8	25	Y
Acetone	0.020	0.010	0.010	0	201	36	164	0.020	0.841	25	QBY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86700

Sample ID:	**VOA11B LCSD2 061**	Samp Type:	**LCSD**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86700**
Client ID:	**LCSS02**	Batch ID:	**R86700**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1682059**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0093	0.0010	0.010	0	93.0	77	121	0.0098	5.74	25	
Bromodichloromethane	0.0094	0.0010	0.010	0	93.9	75	127	0.0099	4.98	25	
Bromoform	0.0064	0.0010	0.010	0	64.0	67	132	0.0070	9.52	25	Q
Carbon disulfide	0.0084	0.0010	0.010	0	84.4	63	132	0.0088	3.83	25	
Carbon tetrachloride	0.0088	0.0010	0.010	0	87.8	70	135	0.0091	3.80	25	
Chlorobenzene	0.0088	0.0010	0.010	0	87.5	79	120	0.0091	4.03	25	
Chlorodibromomethane	0.0075	0.0010	0.010	0	74.8	74	126	0.0079	5.21	25	
Chloroethane	0.011	0.0020	0.010	0	113	59	139	0.012	4.57	25	
Chloroform	0.0093	0.0010	0.010	0	93.4	78	123	0.0098	4.40	25	
Chloromethane	0.011	0.0010	0.010	0	110	50	136	0.012	8.40	25	
cis-1,2-Dichloroethene	0.0095	0.0010	0.010	0	94.8	77	123	0.010	6.53	25	
cis-1,3-Dichloropropene	0.0070	0.0010	0.010	0	70.2	74	126	0.0077	9.37	25	Q
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	100	29	149	0.011	6.48	25	
Ethylbenzene	0.0084	0.0010	0.010	0	83.7	76	122	0.0087	3.87	25	
Methylene chloride	0.017	0.0050	0.010	0	168	70	128	0.019	12.9	25	QBY
Styrene	0.0075	0.0010	0.010	0	75.0	76	124	0.0078	4.43	25	Q
Tetrachloroethene	0.0079	0.0010	0.010	0	78.6	73	128	0.0082	4.84	25	
Toluene	0.0088	0.0010	0.010	0	88.3	77	121	0.0094	6.15	25	
trans-1,2-Dichloroethene	0.0097	0.0010	0.010	0	97.2	74	125	0.010	5.79	25	
trans-1,3-Dichloropropene	0.0074	0.0010	0.010	0	73.6	71	130	0.0079	6.57	25	
Trichloroethene	0.0084	0.0010	0.010	0	83.7	77	123	0.0090	7.48	25	
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	111	62	140	0.011	2.32	25	
Vinyl acetate	0.012	0.0050	0.010	0	122	50	151	0.014	10.0	25	Y
Vinyl chloride	0.011	0.00080	0.010	0	111	56	135	0.011	2.32	25	
Xylene (Total)	0.025	0.0030	0.030	0	83.7	78	124	0.026	4.90	25	
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119		0	25	
Surr: Dibromofluoromethane	57		60.00		95.8	78	119		0	25	
Surr: Toluene-d8	56		60.00		93.8	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86700**

Sample ID:	**VOA11B MBLK3061**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86700**
Client ID:	**PBS**	Batch ID:	**R86700**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1682061**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									UY
Acetone	0.010	0.010									TY
Benzene	0.00060	0.0010									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									U
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0085	0.0050									TY
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86700**

Sample ID:	**VOA11B MBLK3061**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/15/2016**	RunNo:	**86700**
Client ID:	**PBS**	Batch ID:	**R86700**	TestNo:	**SW8260B**			Analysis Date:	**6/15/2016**	SeqNo:	**1682061**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									UY
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	44		50.00		87.3	79	119				
Surr: Dibromofluoromethane	47		50.00		94.8	78	119				
Surr: Toluene-d8	44		50.00		88.2	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86738**

Sample ID:	**VOA11B MBLK 0616**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/16/2016**	RunNo:	**86738**
Client ID:	**PBS**	Batch ID:	**R86738**	TestNo:	**SW8260B**			Analysis Date:	**6/16/2016**	SeqNo:	**1682693**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.011	0.010									TY
Benzene	0.00060	0.0010									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									UY
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.030	0.0050									TY
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86738

Sample ID:	VOA11B MBLK 0616	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	86738
Client ID:	PBS	Batch ID:	R86738	TestNo:	SW8260B			Analysis Date:	6/16/2016	SeqNo:	1682693

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									UY
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	44		50.00		87.7	79	119				
Surr: Dibromofluoromethane	46		50.00		91.7	78	119				
Surr: Toluene-d8	45		50.00		89.2	85	116				

Sample ID:	VOA11B LCS 06161	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	86738
Client ID:	LCSS	Batch ID:	R86738	TestNo:	SW8260B			Analysis Date:	6/16/2016	SeqNo:	1682728

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0092	0.0010	0.010	0	91.8	78	125				
1,1,1-Trichloroethane	0.0096	0.0010	0.010	0	95.8	73	130				
1,1,2,2-Tetrachloroethane	0.011	0.0010	0.010	0	106	70	124				
1,1,2-Trichloroethane	0.0099	0.0010	0.010	0	98.6	78	121				
1,1-Dichloroethane	0.011	0.0010	0.010	0	107	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	104	70	131				
1,2,3-Trichloropropane	0.012	0.0010	0.010	0	118	73	125				
1,2-Dibromo-3-chloropropane	0.0074	0.0050	0.010	0	73.9	61	132				
1,2-Dibromoethane	0.0098	0.0010	0.010	0	98.2	78	122				
1,2-Dichloroethane	0.011	0.0010	0.010	0	114	73	128				
1,2-Dichloropropane	0.010	0.0010	0.010	0	103	76	123				
2-Butanone [MEK]	0.017	0.020	0.010	0	168	51	148				JQ
2-Hexanone	0.0092	0.0050	0.010	0	92.5	53	145				
Acetone	0.027	0.010	0.010	0	273	36	164				QBY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86738

Sample ID:	VOA11B LCS 06161	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	86738
Client ID:	LCSS	Batch ID:	R86738	TestNo:	SW8260B			Analysis Date:	6/16/2016	SeqNo:	1682728

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.010	0.0010	0.010	0	104	77	121				
Bromodichloromethane	0.0099	0.0010	0.010	0	98.7	75	127				
Bromoform	0.0065	0.0010	0.010	0	64.9	67	132				QY
Carbon disulfide	0.0094	0.0010	0.010	0	94.1	63	132				
Carbon tetrachloride	0.0098	0.0010	0.010	0	97.8	70	135				
Chlorobenzene	0.0093	0.0010	0.010	0	92.7	79	120				
Chlorodibromomethane	0.0072	0.0010	0.010	0	72.3	74	126				Q
Chloroethane	0.013	0.0020	0.010	0	131	59	139				
Chloroform	0.010	0.0010	0.010	0	105	78	123				
Chloromethane	0.012	0.0010	0.010	0	120	50	136				
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	108	77	123				
cis-1,3-Dichloropropene	0.0077	0.0010	0.010	0	76.7	74	126				
Dichlorodifluoromethane [Freon-12]	0.011	0.0010	0.010	0	114	29	149				
Ethylbenzene	0.0093	0.0010	0.010	0	93.0	76	122				
Methylene chloride	0.013	0.0050	0.010	0	128	70	128				QBY
Styrene	0.0080	0.0010	0.010	0	80.2	76	124				
Tetrachloroethene	0.0084	0.0010	0.010	0	83.5	73	128				
Toluene	0.0099	0.0010	0.010	0	99.4	77	121				
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	113	74	125				
trans-1,3-Dichloropropene	0.0078	0.0010	0.010	0	78.4	71	130				
Trichloroethene	0.0091	0.0010	0.010	0	90.7	77	123				
Trichlorofluoromethane [Freon-11]	0.013	0.0010	0.010	0	132	62	140				
Vinyl acetate	0.012	0.0050	0.010	0	118	50	151				Y
Vinyl chloride	0.013	0.00080	0.010	0	130	56	135				
Xylene (Total)	0.028	0.0030	0.030	0	93.8	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119				
Surr: Dibromofluoromethane	58		60.00		96.5	78	119				
Surr: Toluene-d8	58		60.00		97.4	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86738

Sample ID:	VOA11B LCSD 0616	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	86738
Client ID:	LCSS02	Batch ID:	R86738	TestNo:	SW8260B			Analysis Date:	6/16/2016	SeqNo:	1682729

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0095	0.0010	0.010	0	94.9	78	125	0.0092	3.32	25	
1,1,1-Trichloroethane	0.0096	0.0010	0.010	0	96.4	73	130	0.0096	0.624	25	
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	102	70	124	0.011	4.41	25	
1,1,2-Trichloroethane	0.0098	0.0010	0.010	0	97.8	78	121	0.0099	0.815	25	
1,1-Dichloroethane	0.011	0.0010	0.010	0	106	76	125	0.011	0.657	25	
1,1-Dichloroethene	0.010	0.0010	0.010	0	104	70	131	0.010	0.0961	25	
1,2,3-Trichloropropane	0.0097	0.0010	0.010	0	97.3	73	125	0.012	19.2	25	
1,2-Dibromo-3-chloropropane	0.0086	0.0050	0.010	0	85.5	61	132	0.0074	14.6	25	
1,2-Dibromoethane	0.0098	0.0010	0.010	0	97.5	78	122	0.0098	0.715	25	
1,2-Dichloroethane	0.011	0.0010	0.010	0	113	73	128	0.011	1.23	25	
1,2-Dichloropropane	0.010	0.0010	0.010	0	102	76	123	0.010	0.979	25	
2-Butanone [MEK]	0.013	0.020	0.010	0	134	51	148	0.017	22.3	25	J
2-Hexanone	0.0091	0.0050	0.010	0	91.4	53	145	0.0092	1.20	25	
Acetone	0.023	0.010	0.010	0	231	36	164	0.027	16.8	25	QBY
Benzene	0.010	0.0010	0.010	0	101	77	121	0.010	2.15	25	
Bromodichloromethane	0.010	0.0010	0.010	0	102	75	127	0.0099	3.39	25	
Bromoform	0.0060	0.0010	0.010	0	60.0	67	132	0.0065	7.85	25	QY
Carbon disulfide	0.0093	0.0010	0.010	0	92.9	63	132	0.0094	1.28	25	
Carbon tetrachloride	0.0099	0.0010	0.010	0	99.3	70	135	0.0098	1.52	25	
Chlorobenzene	0.0092	0.0010	0.010	0	92.5	79	120	0.0093	0.216	25	
Chlorodibromomethane	0.0071	0.0010	0.010	0	71.2	74	126	0.0072	1.53	25	Q
Chloroethane	0.013	0.0020	0.010	0	133	59	139	0.013	1.74	25	
Chloroform	0.010	0.0010	0.010	0	101	78	123	0.010	4.00	25	
Chloromethane	0.012	0.0010	0.010	0	115	50	136	0.012	4.26	25	
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	108	77	123	0.011	0	25	
cis-1,3-Dichloropropene	0.0075	0.0010	0.010	0	75.3	74	126	0.0077	1.84	25	
Dichlorodifluoromethane [Freon-12]	0.011	0.0010	0.010	0	111	29	149	0.011	2.23	25	
Ethylbenzene	0.0095	0.0010	0.010	0	94.6	76	122	0.0093	1.71	25	
Methylene chloride	0.013	0.0050	0.010	0	127	70	128	0.013	1.18	25	BY
Styrene	0.0082	0.0010	0.010	0	81.6	76	124	0.0080	1.73	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86738**

Sample ID:	**VOA11B LCSD 0616**	Samp Type:	**LCSD**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/16/2016**	RunNo:	**86738**
Client ID:	**LCSS02**	Batch ID:	**R86738**	TestNo:	**SW8260B**			Analysis Date:	**6/16/2016**	SeqNo:	**1682729**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0085	0.0010	0.010	0	84.6	73	128	0.0084	1.31	25	
Toluene	0.0098	0.0010	0.010	0	97.7	77	121	0.0099	1.73	25	
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	109	74	125	0.011	3.33	25	
trans-1,3-Dichloropropene	0.0076	0.0010	0.010	0	76.0	71	130	0.0078	3.11	25	
Trichloroethene	0.0091	0.0010	0.010	0	90.7	77	123	0.0091	0	25	
Trichlorofluoromethane [Freon-11]	0.013	0.0010	0.010	0	127	62	140	0.013	4.02	25	
Vinyl acetate	0.012	0.0050	0.010	0	117	50	151	0.012	0.341	25	Y
Vinyl chloride	0.013	0.00080	0.010	0	127	56	135	0.013	1.95	25	
Xylene (Total)	0.028	0.0030	0.030	0	94.5	78	124	0.028	0.744	25	
Surr: 4-Bromofluorobenzene	58		60.00		96.6	79	119		0	25	
Surr: Dibromofluoromethane	58		60.00		95.9	78	119		0	25	
Surr: Toluene-d8	59		60.00		97.6	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86751

Sample ID:	VOA11B LCS 06171	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86751
Client ID:	LCSS	Batch ID:	R86751	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1682943

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0094	0.0010	0.010	0	94.1	78	125				
1,1,1-Trichloroethane	0.0096	0.0010	0.010	0	96.0	73	130				
1,1,2,2-Tetrachloroethane	0.011	0.0010	0.010	0	108	70	124				
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	105	78	121				
1,1-Dichloroethane	0.010	0.0010	0.010	0	105	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	103	70	131				
1,2,3-Trichloropropane	0.011	0.0010	0.010	0	110	73	125				
1,2-Dibromo-3-chloropropane	0.0097	0.0050	0.010	0	97.4	61	132				
1,2-Dibromoethane	0.011	0.0010	0.010	0	107	78	122				
1,2-Dichloroethane	0.011	0.0010	0.010	0	112	73	128				
1,2-Dichloropropane	0.011	0.0010	0.010	0	105	76	123				
2-Butanone [MEK]	0.014	0.020	0.010	0	139	51	148				J
2-Hexanone	0.011	0.0050	0.010	0	111	53	145				
Acetone	0.029	0.010	0.010	0	290	36	164				QBY
Benzene	0.010	0.0010	0.010	0	101	77	121				
Bromodichloromethane	0.010	0.0010	0.010	0	101	75	127				
Bromoform	0.0066	0.0010	0.010	0	65.5	67	132				QY
Carbon disulfide	0.0092	0.0010	0.010	0	91.6	63	132				
Carbon tetrachloride	0.010	0.0010	0.010	0	100	70	135				
Chlorobenzene	0.0096	0.0010	0.010	0	96.1	79	120				
Chlorodibromomethane	0.0076	0.0010	0.010	0	76.1	74	126				
Chloroethane	0.012	0.0020	0.010	0	122	59	139				
Chloroform	0.010	0.0010	0.010	0	101	78	123				
Chloromethane	0.012	0.0010	0.010	0	118	50	136				
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	108	77	123				
cis-1,3-Dichloropropene	0.0081	0.0010	0.010	0	81.2	74	126				
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	105	29	149				
Ethylbenzene	0.0097	0.0010	0.010	0	97.0	76	122				
Methylene chloride	0.017	0.0050	0.010	0	170	70	128				QB
Styrene	0.0082	0.0010	0.010	0	81.7	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86751

Sample ID:	VOA11B LCS 06171	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86751
Client ID:	LCSS	Batch ID:	R86751	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1682943

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0093	0.0010	0.010	0	93.3	73	128				
Toluene	0.0098	0.0010	0.010	0	98.4	77	121				
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	110	74	125				
trans-1,3-Dichloropropene	0.0083	0.0010	0.010	0	83.0	71	130				
Trichloroethene	0.0095	0.0010	0.010	0	95.1	77	123				
Trichlorofluoromethane [Freon-11]	0.012	0.0010	0.010	0	115	62	140				
Vinyl acetate	0.013	0.0050	0.010	0	126	50	151				Y
Vinyl chloride	0.012	0.00080	0.010	0	116	56	135				
Xylene (Total)	0.029	0.0030	0.030	0	97.3	78	124				
Surr: 4-Bromofluorobenzene	58		60.00		97.0	79	119				
Surr: Dibromofluoromethane	56		60.00		93.6	78	119				
Surr: Toluene-d8	58		60.00		96.2	85	116				

Sample ID:	VOA11B LCSD 0617	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86751
Client ID:	LCSS02	Batch ID:	R86751	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1682945

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0090	0.0010	0.010	0	90.2	78	125	0.0094	4.23	25	
1,1,1-Trichloroethane	0.0092	0.0010	0.010	0	92.5	73	130	0.0096	3.71	25	
1,1,2,2-Tetrachloroethane	0.0094	0.0010	0.010	0	94.4	70	124	0.011	13.0	25	
1,1,2-Trichloroethane	0.0094	0.0010	0.010	0	94.2	78	121	0.010	10.5	25	
1,1-Dichloroethane	0.010	0.0010	0.010	0	99.7	76	125	0.010	5.18	25	
1,1-Dichloroethene	0.0097	0.0010	0.010	0	97.4	70	131	0.010	5.88	25	
1,2,3-Trichloropropane	0.0097	0.0010	0.010	0	96.7	73	125	0.011	12.6	25	
1,2-Dibromo-3-chloropropane	0.0080	0.0050	0.010	0	79.8	61	132	0.0097	19.9	25	
1,2-Dibromoethane	0.0097	0.0010	0.010	0	96.8	78	122	0.011	10.4	25	
1,2-Dichloroethane	0.010	0.0010	0.010	0	104	73	128	0.011	7.76	25	
1,2-Dichloropropane	0.0096	0.0010	0.010	0	96.0	76	123	0.011	9.15	25	
2-Butanone [MEK]	0.012	0.020	0.010	0	121	51	148	0.014	14.4	25	J
2-Hexanone	0.0087	0.0050	0.010	0	86.9	53	145	0.011	24.3	25	
Acetone	0.025	0.010	0.010	0	255	36	164	0.029	12.8	25	QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86751

Sample ID:	**VOA11B LCSD 0617**	Samp Type:	**LCSD**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86751**
Client ID:	**LCSS02**	Batch ID:	**R86751**	TestNo:	**SW8260B**			Analysis Date:	**6/17/2016**	SeqNo:	**1682945**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0095	0.0010	0.010	0	94.9	77	121	0.010	5.83	25	
Bromodichloromethane	0.0092	0.0010	0.010	0	91.9	75	127	0.010	9.83	25	
Bromoform	0.0058	0.0010	0.010	0	58.3	67	132	0.0066	11.6	25	QY
Carbon disulfide	0.0084	0.0010	0.010	0	83.9	63	132	0.0092	8.77	25	
Carbon tetrachloride	0.0093	0.0010	0.010	0	92.8	70	135	0.010	7.57	25	
Chlorobenzene	0.0090	0.0010	0.010	0	90.4	79	120	0.0096	6.11	25	
Chlorodibromomethane	0.0070	0.0010	0.010	0	70.0	74	126	0.0076	8.35	25	Q
Chloroethane	0.011	0.0020	0.010	0	112	59	139	0.012	8.46	25	
Chloroform	0.0094	0.0010	0.010	0	94.1	78	123	0.010	7.07	25	
Chloromethane	0.011	0.0010	0.010	0	108	50	136	0.012	9.22	25	
cis-1,2-Dichloroethene	0.010	0.0010	0.010	0	101	77	123	0.011	6.40	25	
cis-1,3-Dichloropropene	0.0075	0.0010	0.010	0	75.3	74	126	0.0081	7.54	25	
Dichlorodifluoromethane [Freon-12]	0.0097	0.0010	0.010	0	97.1	29	149	0.010	7.53	25	
Ethylbenzene	0.0091	0.0010	0.010	0	91.2	76	122	0.0097	6.16	25	
Methylene chloride	0.017	0.0050	0.010	0	167	70	128	0.017	1.25	25	Q
Styrene	0.0078	0.0010	0.010	0	77.7	76	124	0.0082	5.02	25	
Tetrachloroethene	0.0083	0.0010	0.010	0	83.0	73	128	0.0093	11.7	25	
Toluene	0.0093	0.0010	0.010	0	92.9	77	121	0.0098	5.75	25	
trans-1,2-Dichloroethene	0.010	0.0010	0.010	0	102	74	125	0.011	7.81	25	
trans-1,3-Dichloropropene	0.0078	0.0010	0.010	0	77.7	71	130	0.0083	6.60	25	
Trichloroethene	0.0089	0.0010	0.010	0	89.2	77	123	0.0095	6.40	25	
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	106	62	140	0.012	8.62	25	
Vinyl acetate	0.011	0.0050	0.010	0	114	50	151	0.013	9.82	25	Y
Vinyl chloride	0.011	0.00080	0.010	0	110	56	135	0.012	5.39	25	
Xylene (Total)	0.027	0.0030	0.030	0	90.3	78	124	0.029	7.39	25	
Surr: 4-Bromofluorobenzene	58		60.00		96.1	79	119		0	25	
Surr: Dibromofluoromethane	56		60.00		92.6	78	119		0	25	
Surr: Toluene-d8	57		60.00		95.4	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86751**

Sample ID:	**VOA11B MBLK 0617**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86751**
Client ID:	**PBS**	Batch ID:	**R86751**	TestNo:	**SW8260B**			Analysis Date:	**6/17/2016**	SeqNo:	**1682948**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.0078	0.010									JTY
Benzene	0.00060	0.0010									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									UY
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0042	0.0050									JT
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86751**

Sample ID:	**VOA11B MBLK 0617**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86751**
Client ID:	**PBS**	Batch ID:	**R86751**	TestNo:	**SW8260B**			Analysis Date:	**6/17/2016**	SeqNo:	**1682948**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									UY
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	43		50.00		86.4	79	119				
Surr: Dibromofluoromethane	43		50.00		86.4	78	119				
Surr: Toluene-d8	44		50.00		87.1	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86765**

Sample ID:	**1606431-008ADUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86765**
Client ID:	**ZZZZZZ**	Batch ID:	**R86765**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683325**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	17	1.0						17.53	3.99	20	

Sample ID:	**1606467-008BDUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86765**
Client ID:	**H6-SS02-01LR1**	Batch ID:	**R86765**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683335**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	20	1.0						21.93	10.5	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86766**

Sample ID:	**1606506-006C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86766**
Client ID:	**ZZZZZZ**	Batch ID:	**R86766**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683355**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	9.9	1.0						9.378	5.75	20	

Sample ID:	**1606512-005C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86766**
Client ID:	**ZZZZZZ**	Batch ID:	**R86766**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683367**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	72	1.0						72.95	1.15	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86770

Sample ID:	VOA11B LCS2 0617	Samp Type:	LCS	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	6/17/2016	RunNo:	86770
Client ID:	LCSS	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1683522

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	2,900		3,000		96.6	79	119				
Surr: Dibromofluoromethane	2,900		3,000		96.7	78	119				
Surr: Toluene-d8	2,800		3,000		93.8	85	116				

Sample ID:	VOA11B MBLK2 061	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	6/17/2016	RunNo:	86770
Client ID:	PBS	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1683524

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	2,300		2,500		91.7	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.0	78	119				
Surr: Toluene-d8	2,200		2,500		89.2	85	116				

Sample ID:	1606430-009CMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	6/18/2016	RunNo:	86770
Client ID:	ZZZZZZ	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683544

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	66		68.07		97.1	79	119				
Surr: Dibromofluoromethane	65		68.07		96.0	78	119				
Surr: Toluene-d8	64		68.07		94.0	85	116				

Sample ID:	1606430-009CMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	6/18/2016	RunNo:	86770
Client ID:	ZZZZZZ	Batch ID:	R86770	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683545

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	68		68.07		99.2	79	119		0	25	
Surr: Dibromofluoromethane	65		68.07		95.6	78	119		0	25	
Surr: Toluene-d8	65		68.07		95.2	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86770**

Sample ID:	**1606467-004BMS**	Samp Type:	**MS**	Test Code:	**SW_8260S**	Units:	**%Rec**	Prep Date:	**6/18/2016**	RunNo:	**86770**
Client ID:	**P113-SS02-01MS1**	Batch ID:	**R86770**	TestNo:	**SW8260B**			Analysis Date:	**6/18/2016**	SeqNo:	**1683546**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	71		71.26		100	79	119				
Surr: Dibromofluoromethane	69		71.26		97.4	78	119				
Surr: Toluene-d8	68		71.26		94.9	85	116				

Sample ID:	**1606467-004BMSD**	Samp Type:	**MSD**	Test Code:	**SW_8260S**	Units:	**%Rec**	Prep Date:	**6/18/2016**	RunNo:	**86770**
Client ID:	**P113-SS02-01SD1**	Batch ID:	**R86770**	TestNo:	**SW8260B**			Analysis Date:	**6/18/2016**	SeqNo:	**1683547**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	71		71.26		99.2	79	119		0	25	
Surr: Dibromofluoromethane	71		71.26		99.0	78	119		0	25	
Surr: Toluene-d8	67		71.26		94.4	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	VOA11B LCS 06201	Samp Type:	LCS	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	LCSS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	3,000		3,000		101	79	119				
Surr: Dibromofluoromethane	2,900		3,000		95.2	78	119				
Surr: Toluene-d8	2,800		3,000		94.3	85	116				

Sample ID:	VOA11B MBLK 0620	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	PBS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683821

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	2,400		2,500		94.5	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.3	78	119				
Surr: Toluene-d8	2,200		2,500		88.7	85	116				

Sample ID:	1606522-007AMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684059

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	3,100		3,000		104	79	119				
Surr: Dibromofluoromethane	3,000		3,000		101	78	119				
Surr: Toluene-d8	2,800		3,000		94.6	85	116				

Sample ID:	1606522-007AMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	%Rec	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684060

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	3,100		3,000		104	79	119		0	25	
Surr: Dibromofluoromethane	3,100		3,000		102	78	119		0	25	
Surr: Toluene-d8	2,800		3,000		93.8	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R87286**

Sample ID:	**VOA11B MBLK5 0616**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/16/2016**	RunNo:	**87286**
Client ID:	**PBS**	Batch ID:	**R87286**	TestNo:	**SW8260B**			Analysis Date:	**6/16/2016**	SeqNo:	**1694175**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.00060	0.0010									U
1,3,5-Trimethylbenzene	0.00060	0.0010									U
Benzene	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Isopropylbenzene	0.00060	0.0010									U
Methyl tert-butyl ether [MTBE]	0.00060	0.0010									U
n-Butylbenzene	0.00060	0.0010									U
n-Propylbenzene	0.00060	0.0010									U
Naphthalene	0.00060	0.0050									U
p-Isopropyltoluene [p-Cymene]	0.00060	0.0010									U
sec-Butylbenzene	0.0010	0.0020									U
tert-Butylbenzene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	44		50.00		87.7	79	119				
Surr: Dibromofluoromethane	46		50.00		91.7	78	119				
Surr: Toluene-d8	45		50.00		89.2	85	116				

Sample ID:	**VOA11B LCS5 06161**	Samp Type:	**LCS**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/16/2016**	RunNo:	**87286**
Client ID:	**LCSS**	Batch ID:	**R87286**	TestNo:	**SW8260B**			Analysis Date:	**6/16/2016**	SeqNo:	**1694184**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0092	0.0010	0.010	0	91.9	75	123				
1,3,5-Trimethylbenzene	0.0095	0.0010	0.010	0	95.4	73	124				
Benzene	0.010	0.0010	0.010	0	104	77	121				
Ethylbenzene	0.0093	0.0010	0.010	0	93.0	76	122				
Isopropylbenzene	0.0093	0.0010	0.010	0	93.0	68	134				
Methyl tert-butyl ether [MTBE]	0.0093	0.0010	0.010	0	92.8	73	125				
n-Butylbenzene	0.0099	0.0010	0.010	0	99.2	70	128				
n-Propylbenzene	0.0094	0.0010	0.010	0	93.9	73	125				
Naphthalene	0.0070	0.0050	0.010	0	70.1	62	129				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87286

Sample ID:	VOA11B LCS5 06161	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	87286
Client ID:	LCSS	Batch ID:	R87286	TestNo:	SW8260B			Analysis Date:	6/16/2016	SeqNo:	1694184

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.0093	0.0010	0.010	0	93.3	73	127				
sec-Butylbenzene	0.010	0.0020	0.010	0	99.8	73	126				
tert-Butylbenzene	0.0093	0.0010	0.010	0	92.8	73	125				
Toluene	0.0099	0.0010	0.010	0	99.4	77	121				
Xylene (Total)	0.028	0.0030	0.030	0	93.8	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119				
Surr: Dibromofluoromethane	58		60.00		96.5	78	119				
Surr: Toluene-d8	58		60.00		97.4	85	116				

Sample ID:	VOA11B LCSD5 0616	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/16/2016	RunNo:	87286
Client ID:	LCSS02	Batch ID:	R87286	TestNo:	SW8260B			Analysis Date:	6/16/2016	SeqNo:	1694185

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0092	0.0010	0.010	0	91.6	75	123	0.0092	0.327	25	
1,3,5-Trimethylbenzene	0.0095	0.0010	0.010	0	95.4	73	124	0.0095	0	25	
Benzene	0.010	0.0010	0.010	0	101	77	121	0.010	2.15	25	
Ethylbenzene	0.0095	0.0010	0.010	0	94.6	76	122	0.0093	1.71	25	
Isopropylbenzene	0.0094	0.0010	0.010	0	93.7	68	134	0.0093	0.750	25	
Methyl tert-butyl ether [MTBE]	0.0092	0.0010	0.010	0	92.1	73	125	0.0093	0.757	25	
n-Butylbenzene	0.0098	0.0010	0.010	0	98.0	70	128	0.0099	1.22	25	
n-Propylbenzene	0.0095	0.0010	0.010	0	94.6	73	125	0.0094	0.743	25	
Naphthalene	0.0070	0.0050	0.010	0	69.8	62	129	0.0070	0.429	25	
p-Isopropyltoluene [p-Cymene]	0.0092	0.0010	0.010	0	92.4	73	127	0.0093	0.969	25	
sec-Butylbenzene	0.010	0.0020	0.010	0	99.5	73	126	0.010	0.301	25	
tert-Butylbenzene	0.0093	0.0010	0.010	0	93.3	73	125	0.0093	0.537	25	
Toluene	0.0098	0.0010	0.010	0	97.7	77	121	0.0099	1.73	25	
Xylene (Total)	0.028	0.0030	0.030	0	94.5	78	124	0.028	0.744	25	
Surr: 4-Bromofluorobenzene	58		60.00		96.6	79	119		0	25	
Surr: Dibromofluoromethane	58		60.00		95.9	78	119		0	25	
Surr: Toluene-d8	59		60.00		97.6	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87292

Sample ID:	VOA11B LCS5 0617	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87292
Client ID:	LCSS	Batch ID:	R87292	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1694266

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.37	0.050	0.50	0	74.8	75	123				Q
1,3,5-Trimethylbenzene	0.46	0.050	0.50	0	92.1	73	124				
Benzene	0.46	0.050	0.50	0	91.2	77	121				
Ethylbenzene	0.44	0.050	0.50	0	88.9	76	122				
Isopropylbenzene	0.39	0.050	0.50	0	78.4	68	134				
Methyl tert-butyl ether [MTBE]	0.43	0.10	0.50	0	85.9	73	125				
n-Butylbenzene	0.48	0.050	0.50	0	96.6	70	128				
n-Propylbenzene	0.45	0.050	0.50	0	89.6	73	125				
Naphthalene	0.49	0.25	0.50	0	98.9	62	129				Z
p-Isopropyltoluene [p-Cymene]	0.38	0.050	0.50	0	77.0	73	127				
sec-Butylbenzene	0.43	0.050	0.50	0	86.1	73	126				
tert-Butylbenzene	0.40	0.050	0.50	0	80.4	73	125				
Toluene	0.46	0.050	0.50	0	92.7	77	121				
Xylene (Total)	1.3	0.15	1.5	0	89.4	78	124				
Surr: 4-Bromofluorobenzene	2,900		3,000		96.6	79	119				
Surr: Dibromofluoromethane	2,900		3,000		96.7	78	119				
Surr: Toluene-d8	2,800		3,000		93.8	85	116				

Sample ID:	VOA11B MBLK5 061	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87292
Client ID:	PBS	Batch ID:	R87292	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1694268

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.030	0.050									U
1,3,5-Trimethylbenzene	0.030	0.050									U
Benzene	0.030	0.050									U
Ethylbenzene	0.030	0.050									U
Isopropylbenzene	0.030	0.050									U
Methyl tert-butyl ether [MTBE]	0.030	0.10									U
n-Butylbenzene	0.030	0.050									U
n-Propylbenzene	0.030	0.050									U
Naphthalene	0.030	0.25									UZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87292

Sample ID:	VOA11B MBLK5 061	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87292
Client ID:	PBS	Batch ID:	R87292	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1694268

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.030	0.050									U
sec-Butylbenzene	0.030	0.050									U
tert-Butylbenzene	0.030	0.050									U
Toluene	0.030	0.050									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,300		2,500		91.7	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.0	78	119				
Surr: Toluene-d8	2,200		2,500		89.2	85	116				

Sample ID:	1606467-004CMS1	Samp Type:	MS	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/18/2016	RunNo:	87292
Client ID:	P113-SS02-01MS1	Batch ID:	R87292	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1694272

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	1.1	0.15	1.5	0	74.0	75	123				Q
1,3,5-Trimethylbenzene	1.3	0.15	1.5	0	89.5	73	124				
Benzene	1.4	0.15	1.5	0	92.9	77	121				
Ethylbenzene	1.3	0.15	1.5	0	89.4	76	122				
Isopropylbenzene	1.1	0.15	1.5	0	75.7	68	134				
Methyl tert-butyl ether [MTBE]	1.2	0.30	1.5	0	83.9	73	125				
n-Butylbenzene	1.3	0.15	1.5	0	84.6	70	128				
n-Propylbenzene	1.3	0.15	1.5	0	87.6	73	125				
Naphthalene	0.94	0.74	1.5	0	62.8	62	129				Z
p-Isopropyltoluene [p-Cymene]	1.0	0.15	1.5	0	70.3	73	127				Q
sec-Butylbenzene	1.2	0.15	1.5	0	78.1	73	126				
tert-Butylbenzene	1.1	0.15	1.5	0	75.7	73	125				
Toluene	1.2	0.15	1.5	0	83.9	77	121				
Xylene (Total)	4.0	0.45	4.5	0	89.0	78	124				
Surr: 4-Bromofluorobenzene	8,900		8,937		100	79	119				
Surr: Dibromofluoromethane	8,700		8,937		97.4	78	119				
Surr: Toluene-d8	8,500		8,937		94.9	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87292

Sample ID: **1606467-004CMSD1** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/18/2016** RunNo: **87292**

Client ID: **P113-SS02-01SD1** Batch ID: **R87292** TestNo: **SW8260B** Analysis Date: **6/18/2016** SeqNo: **1694273**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	1.1	0.15	1.5	0	71.6	75	123	1.1	3.30	25	Q
1,3,5-Trimethylbenzene	1.3	0.15	1.5	0	88.2	73	124	1.3	1.46	25	
Benzene	1.3	0.15	1.5	0	90.4	77	121	1.4	2.73	25	
Ethylbenzene	1.3	0.15	1.5	0	85.5	76	122	1.3	4.46	25	
Isopropylbenzene	1.1	0.15	1.5	0	72.9	68	134	1.1	3.77	25	
Methyl tert-butyl ether [MTBE]	1.2	0.30	1.5	0	82.3	73	125	1.2	1.93	25	
n-Butylbenzene	1.2	0.15	1.5	0	83.6	70	128	1.3	1.19	25	
n-Propylbenzene	1.3	0.15	1.5	0	84.8	73	125	1.3	3.25	25	
Naphthalene	0.88	0.74	1.5	0	58.9	62	129	0.94	6.41	25	QZ
p-Isopropyltoluene [p-Cymene]	1.0	0.15	1.5	0	69.5	73	127	1.0	1.14	25	Q
sec-Butylbenzene	1.2	0.15	1.5	0	78.4	73	126	1.2	0.383	25	
tert-Butylbenzene	1.1	0.15	1.5	0	74.6	73	125	1.1	1.46	25	
Toluene	1.2	0.15	1.5	0	80.4	77	121	1.2	4.26	25	
Xylene (Total)	3.8	0.45	4.5	0	85.1	78	124	4.0	4.48	25	
Surr: 4-Bromofluorobenzene	8,900		8,937		99.2	79	119		0	25	
Surr: Dibromofluoromethane	8,800		8,937		99.0	78	119		0	25	
Surr: Toluene-d8	8,400		8,937		94.4	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87293

Sample ID:	VOA11B LCS5 06201	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	87293
Client ID:	LCSS	Batch ID:	R87293	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1694279

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.39	0.050	0.50	0	78.6	75	123				
1,3,5-Trimethylbenzene	0.48	0.050	0.50	0	96.1	73	124				
Benzene	0.44	0.050	0.50	0	87.8	77	121				
Ethylbenzene	0.45	0.050	0.50	0	89.3	76	122				
Isopropylbenzene	0.40	0.050	0.50	0	80.9	68	134				
Methyl tert-butyl ether [MTBE]	0.42	0.10	0.50	0	84.7	73	125				
n-Butylbenzene	0.51	0.050	0.50	0	102	70	128				
n-Propylbenzene	0.45	0.050	0.50	0	90.6	73	125				
Naphthalene	0.52	0.25	0.50	0	104	62	129				Z
p-Isopropyltoluene [p-Cymene]	0.41	0.050	0.50	0	81.6	73	127				
sec-Butylbenzene	0.44	0.050	0.50	0	88.3	73	126				
tert-Butylbenzene	0.42	0.050	0.50	0	83.8	73	125				
Toluene	0.42	0.050	0.50	0	84.5	77	121				
Xylene (Total)	1.4	0.15	1.5	0	91.1	78	124				
Surr: 4-Bromofluorobenzene	3,000		3,000		101	79	119				
Surr: Dibromofluoromethane	2,900		3,000		95.2	78	119				
Surr: Toluene-d8	2,800		3,000		94.3	85	116				

Sample ID:	VOA11B MBLK5 0620	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	87293
Client ID:	PBS	Batch ID:	R87293	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1694281

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.030	0.050									U
1,3,5-Trimethylbenzene	0.030	0.050									U
Benzene	0.030	0.050									U
Ethylbenzene	0.030	0.050									U
Isopropylbenzene	0.030	0.050									U
Methyl tert-butyl ether [MTBE]	0.030	0.10									U
n-Butylbenzene	0.030	0.050									U
n-Propylbenzene	0.030	0.050									U
Naphthalene	0.030	0.25									UZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87293

Sample ID: **VOA11B MBLK5 0620** Samp Type: **MBLK** Test Code: **SW_8260S** Units: **mg/Kg** Prep Date: **6/20/2016** RunNo: **87293**

Client ID: **PBS** Batch ID: **R87293** TestNo: **SW8260B** Analysis Date: **6/20/2016** SeqNo: **1694281**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.030	0.050									U
sec-Butylbenzene	0.030	0.050									U
tert-Butylbenzene	0.030	0.050									U
Toluene	0.030	0.050									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,400		2,500		94.5	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.3	78	119				
Surr: Toluene-d8	2,200		2,500		88.7	85	116				

Sample ID: **1606522-007AMS5** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg** Prep Date: **6/20/2016** RunNo: **87293**

Client ID: **ZZZZZZ** Batch ID: **R87293** TestNo: **SW8260B** Analysis Date: **6/20/2016** SeqNo: **1707100**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.38	0.050	0.50	0	75.5	75	123				
1,3,5-Trimethylbenzene	0.46	0.050	0.50	0	92.4	73	124				
Benzene	0.44	0.050	0.50	0	88.3	77	121				
Ethylbenzene	0.42	0.050	0.50	0	84.1	76	122				
Isopropylbenzene	0.37	0.050	0.50	0	74.2	68	134				
Methyl tert-butyl ether [MTBE]	0.44	0.10	0.50	0	87.4	73	125				
n-Butylbenzene	0.41	0.050	0.50	0	81.1	70	128				
n-Propylbenzene	0.43	0.050	0.50	0	86.1	73	125				
Naphthalene	0.26	0.25	0.50	0	52.0	62	129				QZ
p-Isopropyltoluene [p-Cymene]	0.37	0.050	0.50	0	73.8	73	127				
sec-Butylbenzene	0.40	0.050	0.50	0	80.5	73	126				
tert-Butylbenzene	0.38	0.050	0.50	0	75.4	73	125				
Toluene	0.41	0.050	0.50	0	82.0	77	121				
Xylene (Total)	1.3	0.15	1.5	0	86.7	78	124				
Surr: 4-Bromofluorobenzene	3,100		3,000		104	79	119				
Surr: Dibromofluoromethane	3,000		3,000		101	78	119				
Surr: Toluene-d8	2,800		3,000		94.6	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87293

Sample ID:	1606522-007AMSD5	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	87293
Client ID:	ZZZZZZ	Batch ID:	R87293	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1707101

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.39	0.050	0.50	0	77.5	75	123	0.38	2.61	25	
1,3,5-Trimethylbenzene	0.47	0.050	0.50	0	93.4	73	124	0.46	1.08	25	
Benzene	0.44	0.050	0.50	0	87.2	77	121	0.44	1.25	25	
Ethylbenzene	0.42	0.050	0.50	0	84.9	76	122	0.42	0.947	25	
Isopropylbenzene	0.37	0.050	0.50	0	74.8	68	134	0.37	0.805	25	
Methyl tert-butyl ether [MTBE]	0.44	0.10	0.50	0	87.3	73	125	0.44	0.114	25	
n-Butylbenzene	0.43	0.050	0.50	0	86.6	70	128	0.41	6.56	25	
n-Propylbenzene	0.44	0.050	0.50	0	87.0	73	125	0.43	1.04	25	
Naphthalene	0.34	0.25	0.50	0	67.3	62	129	0.26	25.6	25	RZ
p-Isopropyltoluene [p-Cymene]	0.38	0.050	0.50	0	75.8	73	127	0.37	2.67	25	
sec-Butylbenzene	0.41	0.050	0.50	0	82.9	73	126	0.40	2.94	25	
tert-Butylbenzene	0.39	0.050	0.50	0	77.5	73	125	0.38	2.75	25	
Toluene	0.41	0.050	0.50	0	81.1	77	121	0.41	1.10	25	
Xylene (Total)	1.3	0.15	1.5	0	86.7	78	124	1.3	0.0385	25	
Surr: 4-Bromofluorobenzene	3,100		3,000		104	79	119		0	25	
Surr: Dibromofluoromethane	3,100		3,000		102	78	119		0	25	
Surr: Toluene-d8	2,800		3,000		93.8	85	116		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606467

Date Reported: 9/6/2016
Revision v6

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

160467

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/2/16-07
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1 Field QC	–	–	TB	1	TB-SO-06/2/16-02	6/2/16	0805	WQ	4	028	4											
2 P113-SB01	03	04	N	1	P113-SB01-04		1230	SO	5			4	0	1								STAR Fuel + GAS
3 P113-SB01	04	05	N	1	P113-SB01-05		1235	SO	5			4	0	1								STAR Fuel + GAS
4 P113-SB02	00	01	N	1	P113-SS02-01		1215	SS	5			4	0	1								STAR Fuel + GAS
	00	01	MS	1	P113-SS02-01MS		1215	SS	5			4	0	1								STAR Fuel + GAS
	00	01	SD	1	P113-SS02-01MSD		1215	SS	5			4	0	1								STAR Fuel + GAS
5	03	04	N	1	P113-SB02-04		1230	SO	5			4	0	1								STAR Fuel + GAS
6 P113-SB03	00	01	N	1	P113-SS03-01		1210	SS	5			4	0	1								STAR Fuel + GAS
7 ~~HA-SS01~~	~~00~~	~~01~~	~~N~~	~~1~~	~~HA-SS01-01~~		~~1155~~	~~SS~~	~~2~~						~~can~~			~~1~~		~~1~~		one set of terra cores for both STARS lists
8 ~~HA-SS02~~	~~00~~	~~01~~	~~N~~	~~1~~	~~HA-SS02-01~~		~~1130~~	~~SS~~	~~2~~						~~can~~			~~1~~		~~1~~		
9 ~~HA-SS03~~	~~00~~	~~01~~	~~N~~	~~1~~	~~HA-SS03-01~~		~~1145~~	~~SS~~	~~2~~						~~can~~			~~1~~		~~1~~		
10 WDS-SB10	07	08	N	1	WDS-SB10-08	6/2/16	1350	SO	5	028	4			1								
11 HA-SS01	00	01	N	1	HA-SS01-01	6/2/16	1540	SS	5	028	4			1								

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
Amanda Martin AECOM	6/3/16		Dropped to FedEx	6/3/16	
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			Brian Dalton / KTI	6/4/16	0900
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: AOCs - P113, [redacted] (VOCs), WDS (VOCs)

Shipment Method/Airbill No.: 8030702 5832

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

L1 5

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060216-07
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
H18-SS01	00	01	FD	1	H18-SS01-01DUP	~~1540~~	1540	SO	5	028	4			1	1							Date: 6/12/16
H18-SS01	01	02	N	1	H18-SS01-02	~~1545~~	1545	SO	5	↓	4			1								Date: 6/12/16
H18-SS02	00	01	N	1	H18-SS02-01	6/12/16	1600	SS	5		4			1								
H18-SS02	01	02	N	1	H18-SS02-02	6/12/16	1605	SO	5	↓	4			1								

1. Relinquished By / Company: [illegible] AECOM	Date: 6/13/16	Time: 1500	1. ~~Received By~~ / Company: Transfer to FedEx	Date: 6/13/16	Time: 1760
2. Relinquished By / Company	Date	Time	2. Received By / Company: FedEx Shipping / RTI Labs	Date: 6/14/16	Time: 945
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 510307025832

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

L1-5

FedEx Express

8103 0202 5832

0215

1 From

Date

Sender's Name

Phone

Company

Address

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name

Company

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City State ZIP

4 Express Package Service

Packages up to 150 lbs.

Next Business Day

FedEx First Overnight

FedEx Priority Overnight

FedEx Standard Overnight

2 or 3 Business Days

FedEx 2Day A.M.

FedEx 2Day

FedEx Express Saver

5 Packaging

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

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DATE 6/13/16

SIGNATURE

QEC

Quality Environmental Containers

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TRK# 0215 8103 0202 5832

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Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Start PNA Last only

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 6/12/16-08
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
P113-SB01	03	04	N	1	P113-SB01-04	6/12/16	1230	SO	2	029			1			1				1		
↓	04	05	↓	1	P113-SB01-05		1235	SO	2				1							1		
P113-SB02	00	01	N	1	P113-SS02-01		1215	SS	2				1							1		
↓	00	01	MS	1	P113-SS02-01MS		1215	SS	2				1							1		
	00	01	SD	1	P113-SS02-01MSD		1215	SS	2				1							1		
↓	03	04	N	1	P113-SB02-04		1230	SO	2				1							1		
P113-SB03	00	01	N	1	P113-SS03-01		1210	SO	2				1							1		
H6-SS01	00	01	N	1	H6-SS01-01		1135	SS	2				X					1		1		PCBs + lead
H6-SS02	00	01	N	1	H6-SS02-01		1130	SS	2				X					1		1		PCBs + lead
H6-SS03	00	01	N	1	H6-SS03-01		1145	SS	2				X					1		1		PCBs + lead
WDS-SB10	07	08	N	1	WDS-SB10-08		1350	SO	3						1			1	1			
H4-SB01	00	01	N	1	H4-SS01-01		1430	SS	2									1		1		
H4-SB02	00	01	N	1	H4-SS01-01		1410	SS	2									1		1		ID: H4-SS01-01

1. Relinquished By / Company: Amanda Martin / AECOM	Date: 6/13/16	Time: 1300	1. Received By / Company: Transfer to Fedex	Date: 6/13/16	Time: 1300
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: / RTI Labs	Date: 6/14/16	Time: 09:41

Comments: AOCs: P113, H6 (non VOCs), H4, WDS-SB10

Shipment Method/Airbill No.: 8105 0252 5821

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

Cooler 1914 Bottles labeled H4-SS02-01

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061216-08
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
H4-SB02	04	05	N	1	H4-SB02-05	6/12/16	1415	SO	2	029								1		1		18
H4-SB03	00	01	N	1	H4-SS03-01	↓	1355	SS	2	↓								1		1		19
H4-SB03	04	05	N	1	H4-SB03-05	↓	1400	SS	2	↓								1		1		20
H18-SS01	00	01	N	1	H18-SS01-01	↓	1540	SS	3	↓												W
H18-SS01	00	01	FD	1	H18-SS01-01DUP	↓	1540	SS	3	↓												17
H18-SS01	01	02	N	1	H18-SS01-02	↓	1545	SO	3	↓												(D H18-SS01-02
H18-SS02	00	01	N	1	H18-SS02-01	↓	1600	SS	3	↓												V
H18-SS02	01	02	N	1	H18-SS02-02	↓	1605	SO	3	↓												15

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
Amanda Martin AECOM	6/13/16	1200	transfer to FedEx	6/13/16	1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: P113, H16, H4, WDS-SB22-10

Shipment Method/Airbill No.: ~~FedEx~~ 8103020258

SOIL SAMPLES

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

Cooler: 19/4

TRK# 8103 0202 5821 STANDARD OVERNIGHT

48150
MI-US
DTW

ET CFAA

FedEx Express

1 From

Date

Sender's Name Phone

Company

Address

City State ZIP

2 Your Internal Billing Reference

3 To
Recipient's Name

Company

Address

Address

City

8103 0202 5821

FID 552995 13JUN16 WSHA 5390C2/30BD/6ABB

Next Business Day

FedEx First Overnight

FedEx Priority Overnight

FedEx Standard Overnight

2 or 3 Business Days

FedEx 2Day A.M.

FedEx 2Day

FedEx Express Saver

Packages up to 150 lbs.

5 Packaging

Other

fedex.com

CUSTODY SEAL QEC
Quality Environmental Containers
800-258-3959 • 304-255-3959
DATE 6/15/16
SIGNATURE

Direct Signature

Recipient Third Party Credit Card Cash/Check

Total Packages Total Weight

611

Align Open End of FedEx Pouch Here

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606506

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606506-001A	034-SS01-01		6/13/2016 12:45 PM	6/15/2016 9:50 AM	Soil
1606506-001B	034-SS01-01		6/13/2016 12:45 PM	6/15/2016 9:50 AM	Soil
1606506-001C	034-SS01-01		6/13/2016 12:45 PM	6/15/2016 9:50 AM	Soil
1606506-002A	034-SB01-02		6/13/2016 12:50 PM	6/15/2016 9:50 AM	Soil
1606506-002B	034-SB01-02		6/13/2016 12:50 PM	6/15/2016 9:50 AM	Soil
1606506-002C	034-SB01-02		6/13/2016 12:50 PM	6/15/2016 9:50 AM	Soil
1606506-003A	034-SS02-01		6/13/2016 12:40 PM	6/15/2016 9:50 AM	Soil
1606506-003B	034-SS02-01		6/13/2016 12:40 PM	6/15/2016 9:50 AM	Soil
1606506-003C	034-SS02-01		6/13/2016 12:40 PM	6/15/2016 9:50 AM	Soil
1606506-004A	034-SS02-02		6/13/2016 12:45 PM	6/15/2016 9:50 AM	Soil
1606506-004B	034-SS02-02		6/13/2016 12:45 PM	6/15/2016 9:50 AM	Soil
1606506-004C	034-SS02-02		6/13/2016 12:45 PM	6/15/2016 9:50 AM	Soil
1606506-005A	034-SS02-02 DUP		6/13/2016 12:45 PM	6/15/2016 9:50 AM	Soil
1606506-005B	034-SS02-02 DUP		6/13/2016 12:45 PM	6/15/2016 9:50 AM	Soil
1606506-005C	034-SS02-02 DUP		6/13/2016 12:45 PM	6/15/2016 9:50 AM	Soil
1606506-006A	034-SS03-01		6/13/2016 12:20 PM	6/15/2016 9:50 AM	Soil
1606506-006B	034-SS03-01		6/13/2016 12:20 PM	6/15/2016 9:50 AM	Soil
1606506-006C	034-SS03-01		6/13/2016 12:20 PM	6/15/2016 9:50 AM	Soil
1606506-007A	034-SS03-02		6/13/2016 12:30 PM	6/15/2016 9:50 AM	Soil
1606506-007B	034-SS03-02		6/13/2016 12:30 PM	6/15/2016 9:50 AM	Soil
1606506-007C	034-SS03-02		6/13/2016 12:30 PM	6/15/2016 9:50 AM	Soil
1606506-008A	034-SS04-01		6/13/2016 12:20 PM	6/15/2016 9:50 AM	Soil
1606506-008B	034-SS04-01		6/13/2016 12:20 PM	6/15/2016 9:50 AM	Soil
1606506-008C	034-SS04-01		6/13/2016 12:20 PM	6/15/2016 9:50 AM	Soil
1606506-009A	034-SS04-02		6/13/2016 12:25 PM	6/15/2016 9:50 AM	Soil
1606506-009B	034-SS04-02		6/13/2016 12:25 PM	6/15/2016 9:50 AM	Soil
1606506-009C	034-SS04-02		6/13/2016 12:25 PM	6/15/2016 9:50 AM	Soil
1606506-010A	034-SS04-02 DUP		6/13/2016 12:25 PM	6/15/2016 9:50 AM	Soil
1606506-010B	034-SS04-02 DUP		6/13/2016 12:25 PM	6/15/2016 9:50 AM	Soil
1606506-010C	034-SS04-02 DUP		6/13/2016 12:25 PM	6/15/2016 9:50 AM	Soil
1606506-011A	034-SS05-01		6/13/2016 12:10 PM	6/15/2016 9:50 AM	Soil
1606506-011B	034-SS05-01		6/13/2016 12:10 PM	6/15/2016 9:50 AM	Soil
1606506-011C	034-SS05-01		6/13/2016 12:10 PM	6/15/2016 9:50 AM	Soil
1606506-012A	034-SS05-02		6/13/2016 12:10 PM	6/15/2016 9:50 AM	Soil
1606506-012B	034-SS05-02		6/13/2016 12:10 PM	6/15/2016 9:50 AM	Soil
1606506-012C	034-SS05-02		6/13/2016 12:10 PM	6/15/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical Report revised 9/9/2016: Sample ID 1606506-001 updated to reflect 034-SS01-01.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A
- Polychlorinated Biphenyls - 8082A
- Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87666, Batch ID R87666:
Sample CCV SIM 070816S7: CCV results for Benz(a)anthracene exceed the 20% criteria.
Sample CCVE SIM 070816S7, Batch ID R87666 : Ending CCV results for several analytes exceeded control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87666, Batch ID 40214:
Samples 1606506-006A MS: Spike recoveries for Benz(a)anthracene, Benzo(b)fluoroanthene, Benzo(k)fluoranthene and Pyrene were outside the control limits.
Samples 1606506-006A MSD: Spike recoveries for Benz(a)anthracene, Benzo(k)fluoranthene, Fluoranthene, Phenanthrene and Pyrene were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87786, Batch ID R87786:
Sample CCV SIM S7 080116: Results for 1-Methylnaphthalene exceeded QC LIMIT.
Sample CCVE SIM 080116 S7, Batch ID R87786 : Ending CCV results for Benzo(g,h,i)perylene and Indeno(1,2,3-cd)pyrene exceeded the 50% criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87818, Batch ID 40214:
Samples 1606506-003A and -004A: Samples required additional dilutions that were performed one day past the recommended hold time.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 877018, Batch ID 87701:
Sample CCVE S7 072816 SIM, Batch ID R87701 : Ending CCV results for Benzo(g,h,i)perylene and Dibenz(a,h)anthracene exceeded the 50% criteria.

Analytical Comments for Test SW_6010S Analytical Run No 87406, Batch ID 40282:
Samples 1606506-006C MS/MSD: Spike recoveries for several analytes were outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:45:00 PM
Project:	Camp Hero		
Lab ID:	1606506-001	**Matrix:**	Soil
Client Sample ID:	034-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0091	U	0.0041	0.0091	0.045	mg/Kg-dry	1	7/7/2016 1:21 PM
Aroclor 1221	0.0091	U	0.0041	0.0091	0.045	mg/Kg-dry	1	7/7/2016 1:21 PM
Aroclor 1232	0.0091	U	0.0062	0.0091	0.045	mg/Kg-dry	1	7/7/2016 1:21 PM
Aroclor 1242	0.0091	U	0.0051	0.0091	0.045	mg/Kg-dry	1	7/7/2016 1:21 PM
Aroclor 1248	0.0091	U	0.0048	0.0091	0.045	mg/Kg-dry	1	7/7/2016 1:21 PM
Aroclor 1254	0.0091	U	0.0058	0.0091	0.045	mg/Kg-dry	1	7/7/2016 1:21 PM
Aroclor 1260	0.0091	U	0.0040	0.0091	0.045	mg/Kg-dry	1	7/7/2016 1:21 PM
Aroclor 1262	0.0091	U	0.0040	0.0091	0.045	mg/Kg-dry	1	7/7/2016 1:21 PM
Aroclor 1268	0.0091	U	0.0033	0.0091	0.045	mg/Kg-dry	1	7/7/2016 1:21 PM
Surr: Tetrachloro-m-xylene	83.2			44-130		%Rec	1	7/7/2016 1:21 PM
Surr: Decachlorobiphenyl	76.4			60-125		%Rec	1	7/7/2016 1:21 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,600		67	180	450	mg/Kg-dry	100	7/14/2016 3:18 PM
Antimony	1.9		0.34	0.45	0.90	mg/Kg-dry	1	7/14/2016 2:27 PM
Arsenic	5.2		0.65	0.90	1.8	mg/Kg-dry	1	7/14/2016 2:27 PM
Barium	26		0.27	4.5	9.0	mg/Kg-dry	1	7/14/2016 2:27 PM
Beryllium	0.17	J	0.011	0.045	0.22	mg/Kg-dry	1	7/14/2016 2:27 PM
Cadmium	0.52		0.030	0.045	0.22	mg/Kg-dry	1	7/14/2016 2:27 PM
Calcium	2,900		26	90	450	mg/Kg-dry	10	7/14/2016 4:00 PM
Chromium	12		0.074	0.36	0.45	mg/Kg-dry	1	7/14/2016 2:27 PM
Cobalt	2.2	G	0.081	0.22	0.90	mg/Kg-dry	1	7/14/2016 2:27 PM
Copper	24		0.37	0.90	4.5	mg/Kg-dry	1	7/14/2016 2:27 PM
Iron	8,500		28	45	130	mg/Kg-dry	10	7/14/2016 4:00 PM
Lead	14		0.56	0.90	4.5	mg/Kg-dry	1	7/14/2016 2:27 PM
Magnesium	1,300		3.1	4.5	45	mg/Kg-dry	1	7/14/2016 2:27 PM
Manganese	120		0.17	0.22	0.90	mg/Kg-dry	1	7/14/2016 2:27 PM
Nickel	8.2		0.25	0.90	4.5	mg/Kg-dry	1	7/14/2016 2:27 PM
Potassium	560		2.1	9.0	18	mg/Kg-dry	1	7/14/2016 2:27 PM
Selenium	1.3	U	1.0	1.3	1.8	mg/Kg-dry	1	7/14/2016 2:27 PM
Silver	0.28	J	0.073	0.22	0.90	mg/Kg-dry	1	7/14/2016 2:27 PM
Sodium	100		1.8	4.5	45	mg/Kg-dry	1	7/14/2016 2:27 PM
Vanadium	17		0.11	0.90	2.2	mg/Kg-dry	1	7/14/2016 2:27 PM
Zinc	32		0.35	0.45	4.5	mg/Kg-dry	1	7/14/2016 2:27 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.086	JG	0.045	0.047	0.19	mg/Kg-dry	10	7/21/2016 2:10 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0045		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 8:07 PM
2-Methylnaphthalene	0.0056		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 8:07 PM
Acenaphthene	0.0092		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 8:07 PM
Acenaphthylene	0.0072		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 8:07 PM

RTI Laboratories - Analytical Report

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:45:00 PM
Project:	Camp Hero		
Lab ID:	1606506-001	**Matrix:**	Soil
Client Sample ID:	034-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.032		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 8:07 PM
Benz(a)anthracene	0.25		0.019	0.019	0.019	mg/Kg-dry	20	7/28/2016 12:28 PM
Benzo(a)pyrene	0.26		0.019	0.019	0.019	mg/Kg-dry	20	7/28/2016 12:28 PM
Benzo(b)fluoranthene	0.39		0.019	0.019	0.019	mg/Kg-dry	20	7/28/2016 12:28 PM
Benzo(g,h,i)perylene	0.18		0.019	0.019	0.019	mg/Kg-dry	20	7/28/2016 12:28 PM
Benzo(k)fluoranthene	0.11		0.019	0.019	0.019	mg/Kg-dry	20	7/28/2016 12:28 PM
Chrysene	0.23		0.019	0.019	0.019	mg/Kg-dry	20	7/28/2016 12:28 PM
Dibenzo(a,h)anthracene	0.044		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 8:07 PM
Fluoranthene	0.43		0.019	0.019	0.019	mg/Kg-dry	20	7/28/2016 12:28 PM
Fluorene	0.011		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 8:07 PM
Indeno(1,2,3-cd)pyrene	0.20		0.019	0.019	0.019	mg/Kg-dry	20	7/28/2016 12:28 PM
Naphthalene	0.0058		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 8:07 PM
Phenanthrene	0.13		0.019	0.019	0.019	mg/Kg-dry	20	7/28/2016 12:28 PM
Pyrene	0.37		0.019	0.019	0.019	mg/Kg-dry	20	7/28/2016 12:28 PM
Surr: 2-Fluorobiphenyl	73.3			46-115		%Rec	1	7/8/2016 8:07 PM
Surr: Nitrobenzene-d5	84.9			44-125		%Rec	1	7/8/2016 8:07 PM
Surr: Terphenyl-d14	100			58-133		%Rec	1	7/8/2016 8:07 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	28		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606506-002	**Matrix:**	Soil
Client Sample ID:	034-SB01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0090	U	0.0040	0.0090	0.044	mg/Kg-dry	1	7/7/2016 1:46 PM
Aroclor 1221	0.0090	U	0.0040	0.0090	0.044	mg/Kg-dry	1	7/7/2016 1:46 PM
Aroclor 1232	0.0090	U	0.0060	0.0090	0.044	mg/Kg-dry	1	7/7/2016 1:46 PM
Aroclor 1242	0.0090	U	0.0050	0.0090	0.044	mg/Kg-dry	1	7/7/2016 1:46 PM
Aroclor 1248	0.0090	U	0.0047	0.0090	0.044	mg/Kg-dry	1	7/7/2016 1:46 PM
Aroclor 1254	0.0090	U	0.0057	0.0090	0.044	mg/Kg-dry	1	7/7/2016 1:46 PM
Aroclor 1260	0.0090	U	0.0039	0.0090	0.044	mg/Kg-dry	1	7/7/2016 1:46 PM
Aroclor 1262	0.0090	U	0.0039	0.0090	0.044	mg/Kg-dry	1	7/7/2016 1:46 PM
Aroclor 1268	0.0090	U	0.0033	0.0090	0.044	mg/Kg-dry	1	7/7/2016 1:46 PM
Surr: Tetrachloro-m-xylene	86.7			44-130		%Rec	1	7/7/2016 1:46 PM
Surr: Decachlorobiphenyl	89.0			60-125		%Rec	1	7/7/2016 1:46 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	16,000		63	170	420	mg/Kg-dry	100	7/14/2016 3:19 PM
Antimony	1.9		0.32	0.42	0.84	mg/Kg-dry	1	7/14/2016 2:28 PM
Arsenic	1.9		0.61	0.84	1.7	mg/Kg-dry	1	7/14/2016 2:28 PM
Barium	26		0.25	4.2	8.4	mg/Kg-dry	1	7/14/2016 2:28 PM
Beryllium	0.091	J	0.011	0.042	0.21	mg/Kg-dry	1	7/14/2016 2:28 PM
Cadmium	0.21	J	0.028	0.042	0.21	mg/Kg-dry	1	7/14/2016 2:28 PM
Calcium	1,800		2.5	8.4	42	mg/Kg-dry	1	7/14/2016 2:28 PM
Chromium	15		0.069	0.34	0.42	mg/Kg-dry	1	7/14/2016 2:28 PM
Cobalt	2.1	G	0.076	0.21	0.84	mg/Kg-dry	1	7/14/2016 2:28 PM
Copper	18		0.35	0.84	4.2	mg/Kg-dry	1	7/14/2016 2:28 PM
Iron	8,300		260	420	1,300	mg/Kg-dry	100	7/14/2016 3:19 PM
Lead	5.2		0.52	0.84	4.2	mg/Kg-dry	1	7/14/2016 2:28 PM
Magnesium	1,600		2.9	4.2	42	mg/Kg-dry	1	7/14/2016 2:28 PM
Manganese	130		0.16	0.21	0.84	mg/Kg-dry	1	7/14/2016 2:28 PM
Nickel	7.9		0.24	0.84	4.2	mg/Kg-dry	1	7/14/2016 2:28 PM
Potassium	730		2.0	8.4	17	mg/Kg-dry	1	7/14/2016 2:28 PM
Selenium	1.3	U	0.98	1.3	1.7	mg/Kg-dry	1	7/14/2016 2:28 PM
Silver	0.21	U	0.069	0.21	0.84	mg/Kg-dry	1	7/14/2016 2:28 PM
Sodium	100		1.7	4.2	42	mg/Kg-dry	1	7/14/2016 2:28 PM
Vanadium	25		0.11	0.84	2.1	mg/Kg-dry	1	7/14/2016 2:28 PM
Zinc	19		0.33	0.42	4.2	mg/Kg-dry	1	7/14/2016 2:28 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.058	J	0.043	0.044	0.18	mg/Kg-dry	10	7/21/2016 2:29 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
2-Methylnaphthalene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Acenaphthene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Acenaphthylene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM

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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606506-002	**Matrix:**	Soil
Client Sample ID:	034-SB01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Benz(a)anthracene	0.00089	UY	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Benzo(a)pyrene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Benzo(b)fluoranthene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Benzo(g,h,i)perylene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Benzo(k)fluoranthene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Chrysene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Dibenzo(a,h)anthracene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Fluoranthene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Fluorene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Indeno(1,2,3-cd)pyrene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Naphthalene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Phenanthrene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Pyrene	0.00089	U	0.00089	0.00089	0.00089	mg/Kg-dry	1	7/8/2016 8:36 PM
Surr: 2-Fluorobiphenyl	77.4			46-115		%Rec	1	7/8/2016 8:36 PM
Surr: Nitrobenzene-d5	91.0			44-125		%Rec	1	7/8/2016 8:36 PM
Surr: Terphenyl-d14	95.9			58-133		%Rec	1	7/8/2016 8:36 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	26		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:40:00 PM
Project:	Camp Hero		
Lab ID:	1606506-003	**Matrix:**	Soil
Client Sample ID:	034-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0090	U	0.0041	0.0090	0.045	mg/Kg-dry	1	7/7/2016 2:10 PM
Aroclor 1221	0.0090	U	0.0040	0.0090	0.045	mg/Kg-dry	1	7/7/2016 2:10 PM
Aroclor 1232	0.0090	U	0.0061	0.0090	0.045	mg/Kg-dry	1	7/7/2016 2:10 PM
Aroclor 1242	0.0090	U	0.0050	0.0090	0.045	mg/Kg-dry	1	7/7/2016 2:10 PM
Aroclor 1248	0.0090	U	0.0048	0.0090	0.045	mg/Kg-dry	1	7/7/2016 2:10 PM
Aroclor 1254	0.0090	U	0.0057	0.0090	0.045	mg/Kg-dry	1	7/7/2016 2:10 PM
Aroclor 1260	0.0090	U	0.0040	0.0090	0.045	mg/Kg-dry	1	7/7/2016 2:10 PM
Aroclor 1262	0.0090	U	0.0040	0.0090	0.045	mg/Kg-dry	1	7/7/2016 2:10 PM
Aroclor 1268	0.0090	U	0.0033	0.0090	0.045	mg/Kg-dry	1	7/7/2016 2:10 PM
Surr: Tetrachloro-m-xylene	62.3			44-130		%Rec	1	7/7/2016 2:10 PM
Surr: Decachlorobiphenyl	64.1			60-125		%Rec	1	7/7/2016 2:10 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	8,400		66	180	440	mg/Kg-dry	100	7/14/2016 3:35 PM
Antimony	2.0		0.33	0.44	0.88	mg/Kg-dry	1	7/14/2016 2:43 PM
Arsenic	1.3	J	0.64	0.88	1.8	mg/Kg-dry	1	7/14/2016 2:43 PM
Barium	26		0.26	4.4	8.8	mg/Kg-dry	1	7/14/2016 2:43 PM
Beryllium	0.22	J	0.011	0.044	0.22	mg/Kg-dry	1	7/14/2016 2:43 PM
Cadmium	0.36		0.029	0.044	0.22	mg/Kg-dry	1	7/14/2016 2:43 PM
Calcium	1,000		2.6	8.8	44	mg/Kg-dry	1	7/14/2016 2:43 PM
Chromium	10		0.072	0.35	0.44	mg/Kg-dry	1	7/14/2016 2:43 PM
Cobalt	2.2		0.079	0.22	0.88	mg/Kg-dry	1	7/14/2016 2:43 PM
Copper	22		0.36	0.88	4.4	mg/Kg-dry	1	7/14/2016 2:43 PM
Iron	8,000		270	440	1,300	mg/Kg-dry	100	7/14/2016 3:35 PM
Lead	15		0.55	0.88	4.4	mg/Kg-dry	1	7/14/2016 2:43 PM
Magnesium	1,100		3.1	4.4	44	mg/Kg-dry	1	7/14/2016 2:43 PM
Manganese	140		0.16	0.22	0.88	mg/Kg-dry	1	7/14/2016 2:43 PM
Nickel	6.7		0.25	0.88	4.4	mg/Kg-dry	1	7/14/2016 2:43 PM
Potassium	660		2.0	8.8	18	mg/Kg-dry	1	7/14/2016 2:43 PM
Selenium	1.3	U	1.0	1.3	1.8	mg/Kg-dry	1	7/14/2016 2:43 PM
Silver	0.20	J	0.072	0.22	0.88	mg/Kg-dry	1	7/14/2016 2:43 PM
Sodium	120		1.8	4.4	44	mg/Kg-dry	1	7/14/2016 2:43 PM
Vanadium	15		0.11	0.88	2.2	mg/Kg-dry	1	7/14/2016 2:43 PM
Zinc	26		0.34	0.44	4.4	mg/Kg-dry	1	7/14/2016 2:43 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.095	J	0.044	0.046	0.18	mg/Kg-dry	10	7/26/2016 4:36 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0051		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 9:04 PM
2-Methylnaphthalene	0.0049		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 9:04 PM
Acenaphthene	0.029		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 9:04 PM
Acenaphthylene	0.0085		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 9:04 PM

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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:40:00 PM
Project:	Camp Hero		
Lab ID:	1606506-003	**Matrix:**	Soil
Client Sample ID:	034-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.12	H	0.019	0.019	0.019	mg/Kg-dry	20	8/2/2016 2:53 PM
Benz(a)anthracene	0.57	H	0.019	0.019	0.019	mg/Kg-dry	20	8/2/2016 2:53 PM
Benzo(a)pyrene	0.45	H	0.019	0.019	0.019	mg/Kg-dry	20	8/2/2016 2:53 PM
Benzo(b)fluoranthene	0.64	H	0.019	0.019	0.019	mg/Kg-dry	20	8/2/2016 2:53 PM
Benzo(g,h,i)perylene	0.0086		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 9:04 PM
Benzo(k)fluoranthene	0.23	H	0.019	0.019	0.019	mg/Kg-dry	20	8/2/2016 2:53 PM
Chrysene	0.44	H	0.019	0.019	0.019	mg/Kg-dry	20	8/2/2016 2:53 PM
Dibenzo(a,h)anthracene	0.024	H	0.019	0.019	0.019	mg/Kg-dry	20	8/2/2016 2:53 PM
Fluoranthene	1.1	H	0.19	0.19	0.19	mg/Kg-dry	200	8/2/2016 4:44 PM
Fluorene	0.035		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 9:04 PM
Indeno(1,2,3-cd)pyrene	0.27	H	0.019	0.019	0.019	mg/Kg-dry	20	8/2/2016 2:53 PM
Naphthalene	0.0056		0.00093	0.00093	0.00093	mg/Kg-dry	1	7/8/2016 9:04 PM
Phenanthrene	0.48	H	0.019	0.019	0.019	mg/Kg-dry	20	8/2/2016 2:53 PM
Pyrene	0.90	H	0.019	0.019	0.019	mg/Kg-dry	20	8/2/2016 2:53 PM
Surr: 2-Fluorobiphenyl	73.9			46-115		%Rec	1	7/8/2016 9:04 PM
Surr: Nitrobenzene-d5	83.1			44-125		%Rec	1	7/8/2016 9:04 PM
Surr: Terphenyl-d14	107			58-133		%Rec	1	7/8/2016 9:04 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	28		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:45:00 PM
Project:	Camp Hero		
Lab ID:	1606506-004	**Matrix:**	Soil
Client Sample ID:	034-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0084	U	0.0038	0.0084	0.042	mg/Kg-dry	1	7/11/2016 5:42 PM
Aroclor 1221	0.0084	U	0.0038	0.0084	0.042	mg/Kg-dry	1	7/11/2016 5:42 PM
Aroclor 1232	0.0084	U	0.0057	0.0084	0.042	mg/Kg-dry	1	7/11/2016 5:42 PM
Aroclor 1242	0.0084	U	0.0047	0.0084	0.042	mg/Kg-dry	1	7/11/2016 5:42 PM
Aroclor 1248	0.0084	U	0.0044	0.0084	0.042	mg/Kg-dry	1	7/11/2016 5:42 PM
Aroclor 1254	0.0084	U	0.0053	0.0084	0.042	mg/Kg-dry	1	7/11/2016 5:42 PM
Aroclor 1260	0.0084	U	0.0037	0.0084	0.042	mg/Kg-dry	1	7/11/2016 5:42 PM
Aroclor 1262	0.0084	U	0.0037	0.0084	0.042	mg/Kg-dry	1	7/11/2016 5:42 PM
Aroclor 1268	0.0084	U	0.0031	0.0084	0.042	mg/Kg-dry	1	7/11/2016 5:42 PM
Surr: Tetrachloro-m-xylene	66.9			44-130		%Rec	1	7/11/2016 5:42 PM
Surr: Decachlorobiphenyl	76.3			60-125		%Rec	1	7/11/2016 5:42 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	16,000		61	160	410	mg/Kg-dry	100	7/14/2016 3:36 PM
Antimony	2.3		0.30	0.41	0.81	mg/Kg-dry	1	7/14/2016 2:44 PM
Arsenic	2.4		0.59	0.81	1.6	mg/Kg-dry	1	7/14/2016 2:44 PM
Barium	22		0.24	4.1	8.1	mg/Kg-dry	1	7/14/2016 2:44 PM
Beryllium	0.019	J	0.010	0.041	0.20	mg/Kg-dry	1	7/14/2016 2:44 PM
Cadmium	0.041	U	0.027	0.041	0.20	mg/Kg-dry	1	7/14/2016 2:44 PM
Calcium	1,100		2.4	8.1	41	mg/Kg-dry	1	7/14/2016 2:44 PM
Chromium	15		0.067	0.32	0.41	mg/Kg-dry	1	7/14/2016 2:44 PM
Cobalt	2.5		0.073	0.20	0.81	mg/Kg-dry	1	7/14/2016 2:44 PM
Copper	27		0.34	0.81	4.1	mg/Kg-dry	1	7/14/2016 2:44 PM
Iron	14,000		250	410	1,200	mg/Kg-dry	100	7/14/2016 3:36 PM
Lead	5.7		0.50	0.81	4.1	mg/Kg-dry	1	7/14/2016 2:44 PM
Magnesium	1,800		2.8	4.1	41	mg/Kg-dry	1	7/14/2016 2:44 PM
Manganese	120		0.15	0.20	0.81	mg/Kg-dry	1	7/14/2016 2:44 PM
Nickel	7.6		0.23	0.81	4.1	mg/Kg-dry	1	7/14/2016 2:44 PM
Potassium	760		1.9	8.1	16	mg/Kg-dry	1	7/14/2016 2:44 PM
Selenium	1.2	U	0.94	1.2	1.6	mg/Kg-dry	1	7/14/2016 2:44 PM
Silver	0.20	U	0.066	0.20	0.81	mg/Kg-dry	1	7/14/2016 2:44 PM
Sodium	92		1.7	4.1	41	mg/Kg-dry	1	7/14/2016 2:44 PM
Vanadium	29		0.10	0.81	2.0	mg/Kg-dry	1	7/14/2016 2:44 PM
Zinc	21		0.31	0.41	4.1	mg/Kg-dry	1	7/14/2016 2:44 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.068	J	0.039	0.040	0.16	mg/Kg-dry	10	7/26/2016 4:37 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00084	U	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
2-Methylnaphthalene	0.0011		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Acenaphthene	0.0015		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Acenaphthylene	0.0012		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM

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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:45:00 PM
Project:	Camp Hero		
Lab ID:	1606506-004	**Matrix:**	Soil
Client Sample ID:	034-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.0038		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Benz(a)anthracene	0.031	Y	0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Benzo(a)pyrene	0.024		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Benzo(b)fluoranthene	0.054	H	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/2/2016 3:21 PM
Benzo(g,h,i)perylene	0.012		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Benzo(k)fluoranthene	0.011		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Chrysene	0.019		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Dibenzo(a,h)anthracene	0.0046		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Fluoranthene	0.072	H	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/2/2016 3:21 PM
Fluorene	0.0016		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Indeno(1,2,3-cd)pyrene	0.010		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Naphthalene	0.0011		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Phenanthrene	0.023		0.00084	0.00084	0.00084	mg/Kg-dry	1	7/8/2016 9:31 PM
Pyrene	0.060	H	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/2/2016 3:21 PM
Surr: 2-Fluorobiphenyl	76.5			46-115		%Rec	1	7/8/2016 9:31 PM
Surr: Nitrobenzene-d5	97.9			44-125		%Rec	1	7/8/2016 9:31 PM
Surr: Terphenyl-d14	99.7			58-133		%Rec	1	7/8/2016 9:31 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	21		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:45:00 PM
Project:	Camp Hero		
Lab ID:	1606506-005	**Matrix:**	Soil
Client Sample ID:	034-SS02-02 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0081	U	0.0037	0.0081	0.040	mg/Kg-dry	1	7/11/2016 6:06 PM
Aroclor 1221	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	7/11/2016 6:06 PM
Aroclor 1232	0.0081	U	0.0055	0.0081	0.040	mg/Kg-dry	1	7/11/2016 6:06 PM
Aroclor 1242	0.0081	U	0.0045	0.0081	0.040	mg/Kg-dry	1	7/11/2016 6:06 PM
Aroclor 1248	0.0081	U	0.0043	0.0081	0.040	mg/Kg-dry	1	7/11/2016 6:06 PM
Aroclor 1254	0.0081	U	0.0051	0.0081	0.040	mg/Kg-dry	1	7/11/2016 6:06 PM
Aroclor 1260	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	7/11/2016 6:06 PM
Aroclor 1262	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	7/11/2016 6:06 PM
Aroclor 1268	0.0081	U	0.0030	0.0081	0.040	mg/Kg-dry	1	7/11/2016 6:06 PM
Surr: Tetrachloro-m-xylene	78.1			44-130		%Rec	1	7/11/2016 6:06 PM
Surr: Decachlorobiphenyl	84.8			60-125		%Rec	1	7/11/2016 6:06 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	16,000		60	160	400	mg/Kg-dry	100	7/14/2016 3:37 PM
Antimony	2.5		0.30	0.40	0.80	mg/Kg-dry	1	7/14/2016 2:46 PM
Arsenic	1.5	J	0.58	0.80	1.6	mg/Kg-dry	1	7/14/2016 2:46 PM
Barium	28		0.24	4.0	8.0	mg/Kg-dry	1	7/14/2016 2:46 PM
Beryllium	0.040	U	0.010	0.040	0.20	mg/Kg-dry	1	7/14/2016 2:46 PM
Cadmium	0.029	J	0.026	0.040	0.20	mg/Kg-dry	1	7/14/2016 2:46 PM
Calcium	1,100		2.4	8.0	40	mg/Kg-dry	1	7/14/2016 2:46 PM
Chromium	15		0.066	0.32	0.40	mg/Kg-dry	1	7/14/2016 2:46 PM
Cobalt	2.7		0.072	0.20	0.80	mg/Kg-dry	1	7/14/2016 2:46 PM
Copper	19		0.33	0.80	4.0	mg/Kg-dry	1	7/14/2016 2:46 PM
Iron	8,900		250	400	1,200	mg/Kg-dry	100	7/14/2016 3:37 PM
Lead	5.1		0.50	0.80	4.0	mg/Kg-dry	1	7/14/2016 2:46 PM
Magnesium	1,900		2.8	4.0	40	mg/Kg-dry	1	7/14/2016 2:46 PM
Manganese	120		0.15	0.20	0.80	mg/Kg-dry	1	7/14/2016 2:46 PM
Nickel	8.3		0.23	0.80	4.0	mg/Kg-dry	1	7/14/2016 2:46 PM
Potassium	900		1.9	8.0	16	mg/Kg-dry	1	7/14/2016 2:46 PM
Selenium	1.2	U	0.93	1.2	1.6	mg/Kg-dry	1	7/14/2016 2:46 PM
Silver	0.20	U	0.066	0.20	0.80	mg/Kg-dry	1	7/14/2016 2:46 PM
Sodium	94		1.6	4.0	40	mg/Kg-dry	1	7/14/2016 2:46 PM
Vanadium	21		0.10	0.80	2.0	mg/Kg-dry	1	7/14/2016 2:46 PM
Zinc	20		0.31	0.40	4.0	mg/Kg-dry	1	7/14/2016 2:46 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.090	J	0.038	0.039	0.16	mg/Kg-dry	10	7/26/2016 4:56 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
2-Methylnaphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Acenaphthene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Acenaphthylene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM

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Date Reported: 8/25/2016
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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:45:00 PM
Project:	Camp Hero		
Lab ID:	1606506-005	**Matrix:**	Soil
Client Sample ID:	034-SS02-02 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Benz(a)anthracene	0.0073	Y	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Benzo(a)pyrene	0.0061		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Benzo(b)fluoranthene	0.012		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Benzo(g,h,i)perylene	0.0030		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Benzo(k)fluoranthene	0.0023		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Chrysene	0.0043		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Dibenzo(a,h)anthracene	0.00090		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Fluoranthene	0.0098		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Fluorene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Indeno(1,2,3-cd)pyrene	0.0025		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Naphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Phenanthrene	0.0049		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Pyrene	0.0099		0.00081	0.00081	0.00081	mg/Kg-dry	1	7/8/2016 10:00 PM
Surr: 2-Fluorobiphenyl	72.6			46-115		%Rec	1	7/8/2016 10:00 PM
Surr: Nitrobenzene-d5	88.2			44-125		%Rec	1	7/8/2016 10:00 PM
Surr: Terphenyl-d14	91.4			58-133		%Rec	1	7/8/2016 10:00 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	18		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:20:00 PM
Project:	Camp Hero		
Lab ID:	1606506-006	**Matrix:**	Soil
Client Sample ID:	034-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/11/2016 6:30 PM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/11/2016 6:30 PM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/11/2016 6:30 PM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	7/11/2016 6:30 PM
Aroclor 1248	0.0073	U	0.0038	0.0073	0.036	mg/Kg-dry	1	7/11/2016 6:30 PM
Aroclor 1254	0.0073	U	0.0046	0.0073	0.036	mg/Kg-dry	1	7/11/2016 6:30 PM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/11/2016 6:30 PM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/11/2016 6:30 PM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/11/2016 6:30 PM
Surr: Tetrachloro-m-xylene	53.7			44-130		%Rec	1	7/11/2016 6:30 PM
Surr: Decachlorobiphenyl	66.5			60-125		%Rec	1	7/11/2016 6:30 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	8,600		52	140	350	mg/Kg-dry	100	7/14/2016 3:08 PM
Antimony	2.4		0.26	0.35	0.70	mg/Kg-dry	1	7/14/2016 1:59 PM
Arsenic	2.7	X	0.51	0.70	1.4	mg/Kg-dry	1	7/14/2016 1:59 PM
Barium	16	X	0.21	3.5	7.0	mg/Kg-dry	1	7/14/2016 1:59 PM
Beryllium	0.035	U	0.0088	0.035	0.17	mg/Kg-dry	1	7/14/2016 1:59 PM
Cadmium	0.032	J	0.023	0.035	0.17	mg/Kg-dry	1	7/14/2016 1:59 PM
Calcium	660	X	2.1	7.0	35	mg/Kg-dry	1	7/14/2016 1:59 PM
Chromium	12	X	0.057	0.28	0.35	mg/Kg-dry	1	7/14/2016 1:59 PM
Cobalt	2.6	GX	0.063	0.17	0.70	mg/Kg-dry	1	7/14/2016 1:59 PM
Copper	25		0.29	0.70	3.5	mg/Kg-dry	1	7/14/2016 1:59 PM
Iron	11,000		22	35	100	mg/Kg-dry	10	7/14/2016 3:58 PM
Lead	8.1		0.43	0.70	3.5	mg/Kg-dry	1	7/14/2016 1:59 PM
Magnesium	960	X	2.4	3.5	35	mg/Kg-dry	1	7/14/2016 1:59 PM
Manganese	140	X	0.13	0.17	0.70	mg/Kg-dry	1	7/14/2016 1:59 PM
Nickel	5.3		0.20	0.70	3.5	mg/Kg-dry	1	7/14/2016 1:59 PM
Potassium	420	X	1.6	7.0	14	mg/Kg-dry	1	7/14/2016 1:59 PM
Selenium	1.0	UX	0.81	1.0	1.4	mg/Kg-dry	1	7/14/2016 1:59 PM
Silver	0.17	U	0.057	0.17	0.70	mg/Kg-dry	1	7/14/2016 1:59 PM
Sodium	66		1.4	3.5	35	mg/Kg-dry	1	7/14/2016 1:59 PM
Vanadium	19	X	0.089	0.70	1.7	mg/Kg-dry	1	7/14/2016 1:59 PM
Zinc	14		0.27	0.35	3.5	mg/Kg-dry	1	7/14/2016 1:59 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.10	J	0.034	0.035	0.14	mg/Kg-dry	10	7/26/2016 4:32 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0023		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/8/2016 6:45 PM
2-Methylnaphthalene	0.0023		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/8/2016 6:45 PM
Acenaphthene	0.0031		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/8/2016 6:45 PM
Acenaphthylene	0.00095		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/8/2016 6:45 PM

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Date Reported: 8/25/2016
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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:20:00 PM
Project:	Camp Hero		
Lab ID:	1606506-006	**Matrix:**	Soil
Client Sample ID:	034-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.0089		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/8/2016 6:45 PM
Benz(a)anthracene	0.058		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/28/2016 12:56 PM
Benzo(a)pyrene	0.050		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/28/2016 12:56 PM
Benzo(b)fluoranthene	0.076		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/28/2016 12:56 PM
Benzo(g,h,i)perylene	0.029		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/8/2016 6:45 PM
Benzo(k)fluoranthene	0.025		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/28/2016 12:56 PM
Chrysene	0.055		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/28/2016 12:56 PM
Dibenzo(a,h)anthracene	0.0053		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/8/2016 6:45 PM
Fluoranthene	0.13	J	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/28/2016 12:56 PM
Fluorene	0.0035		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/8/2016 6:45 PM
Indeno(1,2,3-cd)pyrene	0.024		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/8/2016 6:45 PM
Naphthalene	0.0022		0.00073	0.00073	0.00073	mg/Kg-dry	1	7/8/2016 6:45 PM
Phenanthrene	0.052		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/28/2016 12:56 PM
Pyrene	0.10		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/28/2016 12:56 PM
Surr: 2-Fluorobiphenyl	78.7			46-115		%Rec	1	7/8/2016 6:45 PM
Surr: Nitrobenzene-d5	90.1			44-125		%Rec	1	7/8/2016 6:45 PM
Surr: Terphenyl-d14	100			58-133		%Rec	1	7/8/2016 6:45 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.4		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606506-007	**Matrix:**	Soil
Client Sample ID:	034-SS03-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0071	U	0.0032	0.0071	0.035	mg/Kg-dry	1	7/11/2016 7:43 PM
Aroclor 1221	0.0071	U	0.0032	0.0071	0.035	mg/Kg-dry	1	7/11/2016 7:43 PM
Aroclor 1232	0.0071	U	0.0048	0.0071	0.035	mg/Kg-dry	1	7/11/2016 7:43 PM
Aroclor 1242	0.0071	U	0.0039	0.0071	0.035	mg/Kg-dry	1	7/11/2016 7:43 PM
Aroclor 1248	0.0071	U	0.0037	0.0071	0.035	mg/Kg-dry	1	7/11/2016 7:43 PM
Aroclor 1254	0.0071	U	0.0045	0.0071	0.035	mg/Kg-dry	1	7/11/2016 7:43 PM
Aroclor 1260	0.0071	U	0.0031	0.0071	0.035	mg/Kg-dry	1	7/11/2016 7:43 PM
Aroclor 1262	0.0071	U	0.0031	0.0071	0.035	mg/Kg-dry	1	7/11/2016 7:43 PM
Aroclor 1268	0.0071	U	0.0026	0.0071	0.035	mg/Kg-dry	1	7/11/2016 7:43 PM
Surr: Tetrachloro-m-xylene	47.1			44-130		%Rec	1	7/11/2016 7:43 PM
Surr: Decachlorobiphenyl	62.1			60-125		%Rec	1	7/11/2016 7:43 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	5,000		53	140	350	mg/Kg-dry	100	7/14/2016 3:38 PM
Antimony	2.3		0.27	0.35	0.71	mg/Kg-dry	1	7/14/2016 2:47 PM
Arsenic	1.9		0.51	0.71	1.4	mg/Kg-dry	1	7/14/2016 2:47 PM
Barium	7.8		0.21	3.5	7.1	mg/Kg-dry	1	7/14/2016 2:47 PM
Beryllium	0.035	U	0.0090	0.035	0.18	mg/Kg-dry	1	7/14/2016 2:47 PM
Cadmium	0.035	U	0.023	0.035	0.18	mg/Kg-dry	1	7/14/2016 2:47 PM
Calcium	490		2.1	7.1	35	mg/Kg-dry	1	7/14/2016 2:47 PM
Chromium	8.2		0.058	0.28	0.35	mg/Kg-dry	1	7/14/2016 2:47 PM
Cobalt	2.4		0.064	0.18	0.71	mg/Kg-dry	1	7/14/2016 2:47 PM
Copper	20		0.29	0.71	3.5	mg/Kg-dry	1	7/14/2016 2:47 PM
Iron	9,800		220	350	1,100	mg/Kg-dry	100	7/14/2016 3:38 PM
Lead	1.7	J	0.44	0.71	3.5	mg/Kg-dry	1	7/14/2016 2:47 PM
Magnesium	700		2.5	3.5	35	mg/Kg-dry	1	7/14/2016 2:47 PM
Manganese	100		0.13	0.18	0.71	mg/Kg-dry	1	7/14/2016 2:47 PM
Nickel	3.4	J	0.20	0.71	3.5	mg/Kg-dry	1	7/14/2016 2:47 PM
Potassium	310		1.7	7.1	14	mg/Kg-dry	1	7/14/2016 2:47 PM
Selenium	1.1	U	0.83	1.1	1.4	mg/Kg-dry	1	7/14/2016 2:47 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	7/14/2016 2:47 PM
Sodium	53		1.4	3.5	35	mg/Kg-dry	1	7/14/2016 2:47 PM
Vanadium	14		0.090	0.71	1.8	mg/Kg-dry	1	7/14/2016 2:47 PM
Zinc	7.4		0.27	0.35	3.5	mg/Kg-dry	1	7/14/2016 2:47 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.035	J	0.033	0.034	0.14	mg/Kg-dry	10	7/21/2016 2:28 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
2-Methylnaphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Acenaphthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Acenaphthylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM

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Date Reported: 8/25/2016
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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606506-007	**Matrix:**	Soil
Client Sample ID:	034-SS03-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Benz(a)anthracene	0.00071	UY	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Benzo(a)pyrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Benzo(b)fluoranthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Benzo(g,h,i)perylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Benzo(k)fluoranthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Chrysene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Dibenzo(a,h)anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Fluoranthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Fluorene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Indeno(1,2,3-cd)pyrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Naphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Phenanthrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Pyrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/8/2016 10:29 PM
Surr: 2-Fluorobiphenyl	70.3			46-115		%Rec	1	7/8/2016 10:29 PM
Surr: Nitrobenzene-d5	81.3			44-125		%Rec	1	7/8/2016 10:29 PM
Surr: Terphenyl-d14	94.9			58-133		%Rec	1	7/8/2016 10:29 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	6.7		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:20:00 PM
Project:	Camp Hero		
Lab ID:	1606506-008	**Matrix:**	Soil
Client Sample ID:	034-SS04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0070	U	0.0032	0.0070	0.035	mg/Kg-dry	1	7/11/2016 8:08 PM
Aroclor 1221	0.0070	U	0.0031	0.0070	0.035	mg/Kg-dry	1	7/11/2016 8:08 PM
Aroclor 1232	0.0070	U	0.0047	0.0070	0.035	mg/Kg-dry	1	7/11/2016 8:08 PM
Aroclor 1242	0.0070	U	0.0039	0.0070	0.035	mg/Kg-dry	1	7/11/2016 8:08 PM
Aroclor 1248	0.0070	U	0.0037	0.0070	0.035	mg/Kg-dry	1	7/11/2016 8:08 PM
Aroclor 1254	0.0070	U	0.0044	0.0070	0.035	mg/Kg-dry	1	7/11/2016 8:08 PM
Aroclor 1260	0.0070	U	0.0031	0.0070	0.035	mg/Kg-dry	1	7/11/2016 8:08 PM
Aroclor 1262	0.0070	U	0.0031	0.0070	0.035	mg/Kg-dry	1	7/11/2016 8:08 PM
Aroclor 1268	0.0070	U	0.0026	0.0070	0.035	mg/Kg-dry	1	7/11/2016 8:08 PM
Surr: Tetrachloro-m-xylene	64.6			44-130		%Rec	1	7/11/2016 8:08 PM
Surr: Decachlorobiphenyl	78.8			60-125		%Rec	1	7/11/2016 8:08 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	9,100		53	140	360	mg/Kg-dry	100	7/14/2016 3:40 PM
Antimony	3.7		0.27	0.36	0.71	mg/Kg-dry	1	7/14/2016 2:49 PM
Arsenic	1.6		0.52	0.71	1.4	mg/Kg-dry	1	7/14/2016 2:49 PM
Barium	43		0.21	3.6	7.1	mg/Kg-dry	1	7/14/2016 2:49 PM
Beryllium	0.020	J	0.0090	0.036	0.18	mg/Kg-dry	1	7/14/2016 2:49 PM
Cadmium	0.031	J	0.024	0.036	0.18	mg/Kg-dry	1	7/14/2016 2:49 PM
Calcium	570		2.1	7.1	36	mg/Kg-dry	1	7/14/2016 2:49 PM
Chromium	13		0.059	0.29	0.36	mg/Kg-dry	1	7/14/2016 2:49 PM
Cobalt	3.9		0.064	0.18	0.71	mg/Kg-dry	1	7/14/2016 2:49 PM
Copper	33		0.30	0.71	3.6	mg/Kg-dry	1	7/14/2016 2:49 PM
Iron	13,000		22	36	110	mg/Kg-dry	10	7/14/2016 4:01 PM
Lead	2.7	J	0.44	0.71	3.6	mg/Kg-dry	1	7/14/2016 2:49 PM
Magnesium	2,200		25	36	360	mg/Kg-dry	10	7/14/2016 4:01 PM
Manganese	270		1.3	1.8	7.1	mg/Kg-dry	10	7/14/2016 4:01 PM
Nickel	7.2		0.20	0.71	3.6	mg/Kg-dry	1	7/14/2016 2:49 PM
Potassium	1,600		1.7	7.1	14	mg/Kg-dry	1	7/14/2016 2:49 PM
Selenium	1.1	U	0.83	1.1	1.4	mg/Kg-dry	1	7/14/2016 2:49 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	7/14/2016 2:49 PM
Sodium	120		1.5	3.6	36	mg/Kg-dry	1	7/14/2016 2:49 PM
Vanadium	19		0.090	0.71	1.8	mg/Kg-dry	1	7/14/2016 2:49 PM
Zinc	16		0.28	0.36	3.6	mg/Kg-dry	1	7/14/2016 2:49 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.15		0.034	0.035	0.14	mg/Kg-dry	10	7/26/2016 4:39 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0027		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 10:56 PM
2-Methylnaphthalene	0.0031		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 10:56 PM
Acenaphthene	0.014		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 10:56 PM
Acenaphthylene	0.0022		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 10:56 PM

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Date Reported: 8/25/2016
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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:20:00 PM
Project:	Camp Hero		
Lab ID:	1606506-008	**Matrix:**	Soil
Client Sample ID:	034-SS04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.050		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Benz(a)anthracene	0.15		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Benzo(a)pyrene	0.11		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Benzo(b)fluoranthene	0.18		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Benzo(g,h,i)perylene	0.068		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Benzo(k)fluoranthene	0.041		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Chrysene	0.12		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Dibenzo(a,h)anthracene	0.017		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 10:56 PM
Fluoranthene	0.31		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Fluorene	0.017		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 10:56 PM
Indeno(1,2,3-cd)pyrene	0.079		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Naphthalene	0.0027		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 10:56 PM
Phenanthrene	0.15		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Pyrene	0.24		0.014	0.014	0.014	mg/Kg-dry	20	7/28/2016 1:24 PM
Surr: 2-Fluorobiphenyl	74.9			46-115		%Rec	1	7/8/2016 10:56 PM
Surr: Nitrobenzene-d5	90.1			44-125		%Rec	1	7/8/2016 10:56 PM
Surr: Terphenyl-d14	103			58-133		%Rec	1	7/8/2016 10:56 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	7.1		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606506-009	**Matrix:**	Soil
Client Sample ID:	034-SS04-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/11/2016 8:32 PM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/11/2016 8:32 PM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/11/2016 8:32 PM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	7/11/2016 8:32 PM
Aroclor 1248	0.0073	U	0.0038	0.0073	0.036	mg/Kg-dry	1	7/11/2016 8:32 PM
Aroclor 1254	0.0073	U	0.0046	0.0073	0.036	mg/Kg-dry	1	7/11/2016 8:32 PM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/11/2016 8:32 PM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/11/2016 8:32 PM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/11/2016 8:32 PM
Surr: Tetrachloro-m-xylene	53.1			44-130		%Rec	1	7/11/2016 8:32 PM
Surr: Decachlorobiphenyl	66.4			60-125		%Rec	1	7/11/2016 8:32 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,700		53	140	360	mg/Kg-dry	100	7/14/2016 3:41 PM
Antimony	2.2		0.27	0.36	0.71	mg/Kg-dry	1	7/14/2016 2:50 PM
Arsenic	1.5		0.52	0.71	1.4	mg/Kg-dry	1	7/14/2016 2:50 PM
Barium	41		0.21	3.6	7.1	mg/Kg-dry	1	7/14/2016 2:50 PM
Beryllium	0.036	U	0.0090	0.036	0.18	mg/Kg-dry	1	7/14/2016 2:50 PM
Cadmium	0.036	U	0.023	0.036	0.18	mg/Kg-dry	1	7/14/2016 2:50 PM
Calcium	460		2.1	7.1	36	mg/Kg-dry	1	7/14/2016 2:50 PM
Chromium	12		0.058	0.28	0.36	mg/Kg-dry	1	7/14/2016 2:50 PM
Cobalt	2.3		0.064	0.18	0.71	mg/Kg-dry	1	7/14/2016 2:50 PM
Copper	28		0.30	0.71	3.6	mg/Kg-dry	1	7/14/2016 2:50 PM
Iron	13,000		220	360	1,100	mg/Kg-dry	100	7/14/2016 3:41 PM
Lead	2.4	J	0.44	0.71	3.6	mg/Kg-dry	1	7/14/2016 2:50 PM
Magnesium	1,500		2.5	3.6	36	mg/Kg-dry	1	7/14/2016 2:50 PM
Manganese	230		13	18	71	mg/Kg-dry	100	7/14/2016 3:41 PM
Nickel	5.3		0.20	0.71	3.6	mg/Kg-dry	1	7/14/2016 2:50 PM
Potassium	1,200		1.7	7.1	14	mg/Kg-dry	1	7/14/2016 2:50 PM
Selenium	1.1	U	0.83	1.1	1.4	mg/Kg-dry	1	7/14/2016 2:50 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	7/14/2016 2:50 PM
Sodium	84		1.4	3.6	36	mg/Kg-dry	1	7/14/2016 2:50 PM
Vanadium	18		0.090	0.71	1.8	mg/Kg-dry	1	7/14/2016 2:50 PM
Zinc	13		0.27	0.36	3.6	mg/Kg-dry	1	7/14/2016 2:50 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.10	J	0.034	0.035	0.14	mg/Kg-dry	10	7/26/2016 4:40 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
2-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM

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Date Reported: 8/25/2016
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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606506-009	**Matrix:**	Soil
Client Sample ID:	034-SS04-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.0013		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Benz(a)anthracene	0.0071	Y	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Benzo(a)pyrene	0.0038		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Benzo(b)fluoranthene	0.0077		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Benzo(g,h,i)perylene	0.0019		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Benzo(k)fluoranthene	0.0015		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Chrysene	0.0035		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Fluoranthene	0.0091		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Fluorene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Indeno(1,2,3-cd)pyrene	0.0016		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Naphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Phenanthrene	0.0051		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Pyrene	0.0089		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:25 PM
Surr: 2-Fluorobiphenyl	73.3			46-115		%Rec	1	7/8/2016 11:25 PM
Surr: Nitrobenzene-d5	85.9			44-125		%Rec	1	7/8/2016 11:25 PM
Surr: Terphenyl-d14	99.8			58-133		%Rec	1	7/8/2016 11:25 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	8.6		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606506-010	**Matrix:**	Soil
Client Sample ID:	034-SS04-02 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0072	U	0.0033	0.0072	0.036	mg/Kg-dry	1	7/11/2016 8:56 PM
Aroclor 1221	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/11/2016 8:56 PM
Aroclor 1232	0.0072	U	0.0049	0.0072	0.036	mg/Kg-dry	1	7/11/2016 8:56 PM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.036	mg/Kg-dry	1	7/11/2016 8:56 PM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.036	mg/Kg-dry	1	7/11/2016 8:56 PM
Aroclor 1254	0.0072	U	0.0046	0.0072	0.036	mg/Kg-dry	1	7/11/2016 8:56 PM
Aroclor 1260	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/11/2016 8:56 PM
Aroclor 1262	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/11/2016 8:56 PM
Aroclor 1268	0.0072	U	0.0026	0.0072	0.036	mg/Kg-dry	1	7/11/2016 8:56 PM
Surr: Tetrachloro-m-xylene	63.0			44-130		%Rec	1	7/11/2016 8:56 PM
Surr: Decachlorobiphenyl	75.6			60-125		%Rec	1	7/11/2016 8:56 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	7,400		53	140	350	mg/Kg-dry	100	7/14/2016 3:42 PM
Antimony	2.1		0.26	0.35	0.70	mg/Kg-dry	1	7/14/2016 2:51 PM
Arsenic	1.6		0.51	0.70	1.4	mg/Kg-dry	1	7/14/2016 2:51 PM
Barium	33		0.21	3.5	7.0	mg/Kg-dry	1	7/14/2016 2:51 PM
Beryllium	0.035	U	0.0089	0.035	0.18	mg/Kg-dry	1	7/14/2016 2:51 PM
Cadmium	0.035	U	0.023	0.035	0.18	mg/Kg-dry	1	7/14/2016 2:51 PM
Calcium	480		2.1	7.0	35	mg/Kg-dry	1	7/14/2016 2:51 PM
Chromium	13		0.058	0.28	0.35	mg/Kg-dry	1	7/14/2016 2:51 PM
Cobalt	2.3		0.063	0.18	0.70	mg/Kg-dry	1	7/14/2016 2:51 PM
Copper	25		0.29	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:51 PM
Iron	12,000		220	350	1,100	mg/Kg-dry	100	7/14/2016 3:42 PM
Lead	2.2	J	0.44	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:51 PM
Magnesium	1,300		2.5	3.5	35	mg/Kg-dry	1	7/14/2016 2:51 PM
Manganese	210		13	18	70	mg/Kg-dry	100	7/14/2016 3:42 PM
Nickel	5.0		0.20	0.70	3.5	mg/Kg-dry	1	7/14/2016 2:51 PM
Potassium	930		1.6	7.0	14	mg/Kg-dry	1	7/14/2016 2:51 PM
Selenium	1.1	U	0.82	1.1	1.4	mg/Kg-dry	1	7/14/2016 2:51 PM
Silver	0.18	U	0.058	0.18	0.70	mg/Kg-dry	1	7/14/2016 2:51 PM
Sodium	84		1.4	3.5	35	mg/Kg-dry	1	7/14/2016 2:51 PM
Vanadium	17		0.089	0.70	1.8	mg/Kg-dry	1	7/14/2016 2:51 PM
Zinc	13		0.27	0.35	3.5	mg/Kg-dry	1	7/14/2016 2:51 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.086	J	0.034	0.035	0.14	mg/Kg-dry	10	7/26/2016 4:55 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
2-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM

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Date Reported: 8/25/2016
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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606506-010	**Matrix:**	Soil
Client Sample ID:	034-SS04-02 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Benz(a)anthracene	0.0011	Y	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Benzo(a)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Benzo(b)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Benzo(g,h,i)perylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Benzo(k)fluoranthene	0.0012		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Chrysene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Fluoranthene	0.0017		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Fluorene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Indeno(1,2,3-cd)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Naphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Phenanthrene	0.0015		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Pyrene	0.0016		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/8/2016 11:53 PM
Surr: 2-Fluorobiphenyl	69.5			46-115		%Rec	1	7/8/2016 11:53 PM
Surr: Nitrobenzene-d5	82.1			44-125		%Rec	1	7/8/2016 11:53 PM
Surr: Terphenyl-d14	87.0			58-133		%Rec	1	7/8/2016 11:53 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	8.3		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:10:00 PM
Project:	Camp Hero		
Lab ID:	1606506-011	**Matrix:**	Soil
Client Sample ID:	034-SS05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0089	U	0.0040	0.0089	0.044	mg/Kg-dry	1	7/11/2016 9:21 PM
Aroclor 1221	0.0089	U	0.0040	0.0089	0.044	mg/Kg-dry	1	7/11/2016 9:21 PM
Aroclor 1232	0.0089	U	0.0060	0.0089	0.044	mg/Kg-dry	1	7/11/2016 9:21 PM
Aroclor 1242	0.0089	U	0.0050	0.0089	0.044	mg/Kg-dry	1	7/11/2016 9:21 PM
Aroclor 1248	0.0089	U	0.0047	0.0089	0.044	mg/Kg-dry	1	7/11/2016 9:21 PM
Aroclor 1254	0.0089	U	0.0056	0.0089	0.044	mg/Kg-dry	1	7/11/2016 9:21 PM
Aroclor 1260	0.0089	U	0.0039	0.0089	0.044	mg/Kg-dry	1	7/11/2016 9:21 PM
Aroclor 1262	0.0089	U	0.0039	0.0089	0.044	mg/Kg-dry	1	7/11/2016 9:21 PM
Aroclor 1268	0.0089	U	0.0033	0.0089	0.044	mg/Kg-dry	1	7/11/2016 9:21 PM
Surr: Tetrachloro-m-xylene	52.1			44-130		%Rec	1	7/11/2016 9:21 PM
Surr: Decachlorobiphenyl	64.3			60-125		%Rec	1	7/11/2016 9:21 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	9,900		67	180	450	mg/Kg-dry	100	7/14/2016 3:44 PM
Antimony	0.73	J	0.34	0.45	0.90	mg/Kg-dry	1	7/14/2016 2:53 PM
Arsenic	0.85	J	0.65	0.90	1.8	mg/Kg-dry	1	7/14/2016 2:53 PM
Barium	19		0.27	4.5	9.0	mg/Kg-dry	1	7/14/2016 2:53 PM
Beryllium	0.045	U	0.011	0.045	0.22	mg/Kg-dry	1	7/14/2016 2:53 PM
Cadmium	0.10	J	0.030	0.045	0.22	mg/Kg-dry	1	7/14/2016 2:53 PM
Calcium	490		2.6	9.0	45	mg/Kg-dry	1	7/14/2016 2:53 PM
Chromium	11		0.074	0.36	0.45	mg/Kg-dry	1	7/14/2016 2:53 PM
Cobalt	0.87	J	0.081	0.22	0.90	mg/Kg-dry	1	7/14/2016 2:53 PM
Copper	10		0.37	0.90	4.5	mg/Kg-dry	1	7/14/2016 2:53 PM
Iron	3,100		28	45	130	mg/Kg-dry	10	7/14/2016 4:02 PM
Lead	12		0.56	0.90	4.5	mg/Kg-dry	1	7/14/2016 2:53 PM
Magnesium	550		3.1	4.5	45	mg/Kg-dry	1	7/14/2016 2:53 PM
Manganese	57		0.17	0.22	0.90	mg/Kg-dry	1	7/14/2016 2:53 PM
Nickel	3.8	J	0.25	0.90	4.5	mg/Kg-dry	1	7/14/2016 2:53 PM
Potassium	580		2.1	9.0	18	mg/Kg-dry	1	7/14/2016 2:53 PM
Selenium	1.3	U	1.0	1.3	1.8	mg/Kg-dry	1	7/14/2016 2:53 PM
Silver	0.22	U	0.073	0.22	0.90	mg/Kg-dry	1	7/14/2016 2:53 PM
Sodium	98		1.8	4.5	45	mg/Kg-dry	1	7/14/2016 2:53 PM
Vanadium	13		0.11	0.90	2.2	mg/Kg-dry	1	7/14/2016 2:53 PM
Zinc	36		0.35	0.45	4.5	mg/Kg-dry	1	7/14/2016 2:53 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.046	J	0.043	0.045	0.18	mg/Kg-dry	10	7/26/2016 4:42 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00099		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
2-Methylnaphthalene	0.0013		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Acenaphthene	0.0025		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Acenaphthylene	0.0013		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM

RTI Laboratories - Analytical Report

WO#: 1606506

Date Reported: 8/25/2016
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Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:10:00 PM
Project:	Camp Hero		
Lab ID:	1606506-011	**Matrix:**	Soil
Client Sample ID:	034-SS05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.0057		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Benz(a)anthracene	0.040	Y	0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Benzo(a)pyrene	0.029		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Benzo(b)fluoranthene	0.055		0.0027	0.0027	0.0027	mg/Kg-dry	3	7/28/2016 1:53 PM
Benzo(g,h,i)perylene	0.012		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Benzo(k)fluoranthene	0.011		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Chrysene	0.025		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Dibenzo(a,h)anthracene	0.0034		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Fluoranthene	0.072		0.0027	0.0027	0.0027	mg/Kg-dry	3	7/28/2016 1:53 PM
Fluorene	0.0028		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Indeno(1,2,3-cd)pyrene	0.0098		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Naphthalene	0.0014		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Phenanthrene	0.037		0.00091	0.00091	0.00091	mg/Kg-dry	1	7/9/2016 12:21 AM
Pyrene	0.062		0.0027	0.0027	0.0027	mg/Kg-dry	3	7/28/2016 1:53 PM
Surr: 2-Fluorobiphenyl	64.2			46-115		%Rec	1	7/9/2016 12:21 AM
Surr: Nitrobenzene-d5	78.0			44-125		%Rec	1	7/9/2016 12:21 AM
Surr: Terphenyl-d14	95.6			58-133		%Rec	1	7/9/2016 12:21 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	26		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:10:00 PM
Project:	Camp Hero		
Lab ID:	1606506-012	**Matrix:**	Soil
Client Sample ID:	034-SS05-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0080	U	0.0036	0.0080	0.039	mg/Kg-dry	1	7/11/2016 9:45 PM
Aroclor 1221	0.0080	U	0.0036	0.0080	0.039	mg/Kg-dry	1	7/11/2016 9:45 PM
Aroclor 1232	0.0080	U	0.0054	0.0080	0.039	mg/Kg-dry	1	7/11/2016 9:45 PM
Aroclor 1242	0.0080	U	0.0044	0.0080	0.039	mg/Kg-dry	1	7/11/2016 9:45 PM
Aroclor 1248	0.0080	U	0.0042	0.0080	0.039	mg/Kg-dry	1	7/11/2016 9:45 PM
Aroclor 1254	0.0080	U	0.0050	0.0080	0.039	mg/Kg-dry	1	7/11/2016 9:45 PM
Aroclor 1260	0.0080	U	0.0035	0.0080	0.039	mg/Kg-dry	1	7/11/2016 9:45 PM
Aroclor 1262	0.0080	U	0.0035	0.0080	0.039	mg/Kg-dry	1	7/11/2016 9:45 PM
Aroclor 1268	0.0080	U	0.0029	0.0080	0.039	mg/Kg-dry	1	7/11/2016 9:45 PM
Surr: Tetrachloro-m-xylene	53.4			44-130		%Rec	1	7/11/2016 9:45 PM
Surr: Decachlorobiphenyl	67.9			60-125		%Rec	1	7/11/2016 9:45 PM
Target Analyte Metals **Metals, ICP/OES**			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Aluminum	12,000		59	160	400	mg/Kg-dry	100	7/14/2016 3:45 PM
Antimony	2.0		0.30	0.40	0.79	mg/Kg-dry	1	7/14/2016 2:54 PM
Arsenic	2.2		0.57	0.79	1.6	mg/Kg-dry	1	7/14/2016 2:54 PM
Barium	18		0.24	4.0	7.9	mg/Kg-dry	1	7/14/2016 2:54 PM
Beryllium	0.040	U	0.010	0.040	0.20	mg/Kg-dry	1	7/14/2016 2:54 PM
Cadmium	0.040	U	0.026	0.040	0.20	mg/Kg-dry	1	7/14/2016 2:54 PM
Calcium	530		2.3	7.9	40	mg/Kg-dry	1	7/14/2016 2:54 PM
Chromium	15		0.065	0.32	0.40	mg/Kg-dry	1	7/14/2016 2:54 PM
Cobalt	2.2		0.071	0.20	0.79	mg/Kg-dry	1	7/14/2016 2:54 PM
Copper	21		0.33	0.79	4.0	mg/Kg-dry	1	7/14/2016 2:54 PM
Iron	9,400		250	400	1,200	mg/Kg-dry	100	7/14/2016 3:45 PM
Lead	3.9	J	0.49	0.79	4.0	mg/Kg-dry	1	7/14/2016 2:54 PM
Magnesium	1,500		2.8	4.0	40	mg/Kg-dry	1	7/14/2016 2:54 PM
Manganese	120		0.15	0.20	0.79	mg/Kg-dry	1	7/14/2016 2:54 PM
Nickel	7.9		0.22	0.79	4.0	mg/Kg-dry	1	7/14/2016 2:54 PM
Potassium	610		1.8	7.9	16	mg/Kg-dry	1	7/14/2016 2:54 PM
Selenium	1.2	U	0.92	1.2	1.6	mg/Kg-dry	1	7/14/2016 2:54 PM
Silver	0.20	U	0.065	0.20	0.79	mg/Kg-dry	1	7/14/2016 2:54 PM
Sodium	67		1.6	4.0	40	mg/Kg-dry	1	7/14/2016 2:54 PM
Vanadium	24		0.10	0.79	2.0	mg/Kg-dry	1	7/14/2016 2:54 PM
Zinc	16		0.31	0.40	4.0	mg/Kg-dry	1	7/14/2016 2:54 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.067	J	0.039	0.040	0.16	mg/Kg-dry	10	7/26/2016 4:43 PM
Polynuclear Hydrocarbons **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
2-Methylnaphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Acenaphthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Acenaphthylene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM

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WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 12:10:00 PM
Project:	Camp Hero		
Lab ID:	1606506-012	**Matrix:**	Soil
Client Sample ID:	034-SS05-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Benz(a)anthracene	0.00086	Y	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Benzo(a)pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Benzo(b)fluoranthene	0.0019		0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Benzo(g,h,i)perylene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Benzo(k)fluoranthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Chrysene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Dibenzo(a,h)anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Fluoranthene	0.0012		0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Fluorene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Indeno(1,2,3-cd)pyrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Naphthalene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Phenanthrene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Pyrene	0.0013		0.00082	0.00082	0.00082	mg/Kg-dry	1	7/9/2016 12:49 AM
Surr: 2-Fluorobiphenyl	73.5			46-115		%Rec	1	7/9/2016 12:49 AM
Surr: Nitrobenzene-d5	84.9			44-125		%Rec	1	7/9/2016 12:49 AM
Surr: Terphenyl-d14	99.0			58-133		%Rec	1	7/9/2016 12:49 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	18		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

RTI Laboratories - DATES REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606506-001A	034-SS01-01	6/13/2016 12:45 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 8:07 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/28/2016 12:28 PM
1606506-001B	034-SS01-01	6/13/2016 12:45 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 1:21 PM
1606506-001C	034-SS01-01	6/13/2016 12:45 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:10 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:27 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:18 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 4:00 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606506-002A	034-SB01-02	6/13/2016 12:50 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 8:36 PM
1606506-002B	034-SB01-02	6/13/2016 12:50 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 1:46 PM
1606506-002C	034-SB01-02	6/13/2016 12:50 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:29 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:28 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:19 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606506-003A	034-SS02-01	6/13/2016 12:40 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 9:04 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	8/1/2016 7:34 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	8/2/2016 2:53 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	8/2/2016 4:44 PM
1606506-003B	034-SS02-01	6/13/2016 12:40 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:44 AM	7/7/2016 2:10 PM
1606506-003C	034-SS02-01	6/13/2016 12:40 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:36 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:43 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:35 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM

RTI Laboratories - DATES REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606506-004A	034-SS02-02	6/13/2016 12:45 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 9:31 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	8/2/2016 3:21 PM
1606506-004B	034-SS02-02	6/13/2016 12:45 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/11/2016 5:42 PM
1606506-004C	034-SS02-02	6/13/2016 12:45 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:37 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:44 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:36 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606506-005A	034-SS02-02 DUP	6/13/2016 12:45 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 10:00 PM
1606506-005B	034-SS02-02 DUP	6/13/2016 12:45 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/11/2016 6:06 PM
1606506-005C	034-SS02-02 DUP	6/13/2016 12:45 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:56 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:46 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:37 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606506-006A	034-SS03-01	6/13/2016 12:20 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 6:45 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/28/2016 12:56 PM
1606506-006B	034-SS03-01	6/13/2016 12:20 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/11/2016 6:30 PM
1606506-006C	034-SS03-01	6/13/2016 12:20 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:32 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 1:59 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:08 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:58 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606506-007A	034-SS03-02	6/13/2016 12:30 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 10:29 PM

RTI Laboratories - DATES REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606506-007B	034-SS03-02	6/13/2016 12:30 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/11/2016 7:43 PM
1606506-007C	034-SS03-02	6/13/2016 12:30 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:28 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:47 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:38 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606506-008A	034-SS04-01	6/13/2016 12:20 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 10:56 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/28/2016 1:24 PM
1606506-008B	034-SS04-01	6/13/2016 12:20 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/11/2016 8:08 PM
1606506-008C	034-SS04-01	6/13/2016 12:20 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:39 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:49 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:40 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 4:01 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606506-009A	034-SS04-02	6/13/2016 12:25 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 11:25 PM
1606506-009B	034-SS04-02	6/13/2016 12:25 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/11/2016 8:32 PM
1606506-009C	034-SS04-02	6/13/2016 12:25 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:40 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:50 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:41 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606506-010A	034-SS04-02 DUP	6/13/2016 12:25 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/8/2016 11:53 PM
1606506-010B	034-SS04-02 DUP	6/13/2016 12:25 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/11/2016 8:56 PM

RTI Laboratories - DATES REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606506-010C	034-SS04-02 DUP	6/13/2016 12:25 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:55 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:51 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:42 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606506-011A	034-SS05-01	6/13/2016 12:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/9/2016 12:21 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/28/2016 1:53 PM
1606506-011B	034-SS05-01	6/13/2016 12:10 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/11/2016 9:21 PM
1606506-011C	034-SS05-01	6/13/2016 12:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:42 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:53 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:44 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 4:02 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606506-012A	034-SS05-02	6/13/2016 12:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/9/2016 12:49 AM
1606506-012B	034-SS05-02	6/13/2016 12:10 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/11/2016 9:45 PM
1606506-012C	034-SS05-02	6/13/2016 12:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:43 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:54 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:45 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID:	**MB-40214**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/21/2016**	RunNo:	**87666**
Client ID:	**PBS**	Batch ID:	**40214**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/8/2016**	SeqNo:	**1703029**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benz(a)anthracene	0.00067	0.00067									UY
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	13		16.59		79.0	46	115				
Surr: Nitrobenzene-d5	14		16.59		87.0	44	125				
Surr: Terphenyl-d14	16		16.59		94.3	58	133				

Sample ID:	**LCS-40214**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/21/2016**	RunNo:	**87666**
Client ID:	**LCSS**	Batch ID:	**40214**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/8/2016**	SeqNo:	**1703030**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.011	0.00067	0.013	0	85.3	43	111				
2-Methylnaphthalene	0.011	0.00067	0.013	0	85.3	39	114				
Acenaphthene	0.011	0.00067	0.013	0	79.3	44	111				
Acenaphthylene	0.010	0.00067	0.013	0	78.3	39	116				
Anthracene	0.0099	0.00067	0.013	0	74.8	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID:	LCS-40214	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87666
Client ID:	LCSS	Batch ID:	40214	TestNo:	SW8270C	SW3550C		Analysis Date:	7/8/2016	SeqNo:	1703030

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.013	0.00067	0.013	0	101	54	122				Y
Benzo(a)pyrene	0.0099	0.00067	0.013	0	74.3	50	125				
Benzo(b)fluoranthene	0.014	0.00067	0.013	0	106	53	128				
Benzo(g,h,i)perylene	0.012	0.00067	0.013	0	91.3	49	127				
Benzo(k)fluoranthene	0.0095	0.00067	0.013	0	71.4	56	123				
Chrysene	0.0095	0.00067	0.013	0	71.8	57	118				
Dibenzo(a,h)anthracene	0.013	0.00067	0.013	0	95.7	50	129				
Fluoranthene	0.0097	0.00067	0.013	0	73.1	55	119				
Fluorene	0.011	0.00067	0.013	0	85.3	47	114				
Indeno(1,2,3-cd)pyrene	0.010	0.00067	0.013	0	76.6	49	130				
Naphthalene	0.010	0.00067	0.013	0	75.8	38	111				
Phenanthrene	0.013	0.00067	0.013	0	96.9	49	113				
Pyrene	0.012	0.00067	0.013	0	87.1	55	117				
Surr: 2-Fluorobiphenyl	15		16.59		89.3	46	115				
Surr: Nitrobenzene-d5	16		16.59		94.3	44	125				
Surr: Terphenyl-d14	18		16.59		110	58	133				

Sample ID:	1606506-006AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87666
Client ID:	034-SS03-01MS1	Batch ID:	40214	TestNo:	SW8270C	SW3550C		Analysis Date:	7/8/2016	SeqNo:	1703032

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.014	0.00073	0.015	0.0023	84.0	43	111				
2-Methylnaphthalene	0.015	0.00073	0.015	0.0023	86.7	39	114				
Acenaphthene	0.014	0.00073	0.015	0.0031	75.8	44	111				
Acenaphthylene	0.012	0.00073	0.015	0.00095	78.7	39	116				
Anthracene	0.020	0.00073	0.015	0.0089	78.1	50	114				
Benz(a)anthracene	0.079	0.00073	0.015	0.058	145	54	122				JQY
Benzo(a)pyrene	0.054	0.00073	0.015	0.041	89.1	50	125				J
Benzo(b)fluoranthene	0.099	0.00073	0.015	0.094	31.0	53	128				JQ
Benzo(g,h,i)perylene	0.041	0.00073	0.015	0.029	80.3	49	127				J
Benzo(k)fluoranthene	0.021	0.00073	0.015	0.077	-380	56	123				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID: **1606506-006AMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87666**
Client ID: **034-SS03-01MS1** Batch ID: **40214** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/8/2016** SeqNo: **1703032**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.052	0.00073	0.015	0.042	74.1	57	118				J
Dibenzo(a,h)anthracene	0.021	0.00073	0.015	0.0053	111	50	129				
Fluoranthene	0.10	0.00073	0.015	0.091	90.4	55	119				J
Fluorene	0.015	0.00073	0.015	0.0035	81.8	47	114				
Indeno(1,2,3-cd)pyrene	0.034	0.00073	0.015	0.024	66.3	49	130				
Naphthalene	0.013	0.00073	0.015	0.0022	74.1	38	111				
Phenanthrene	0.070	0.00073	0.015	0.054	111	49	113				J
Pyrene	0.11	0.00073	0.015	0.086	132	55	117				JQ
Surr: 2-Fluorobiphenyl	15		18.14		82.8	46	115				
Surr: Nitrobenzene-d5	18		18.14		98.7	44	125				
Surr: Terphenyl-d14	19		18.14		107	58	133				

Sample ID: **1606506-006AMSD** Samp Type: **MSD** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/21/2016** RunNo: **87666**
Client ID: **034-SS03-01SD1** Batch ID: **40214** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/8/2016** SeqNo: **1703033**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.014	0.00073	0.014	0.0023	82.6	43	111	0.014	1.75	25	
2-Methylnaphthalene	0.014	0.00073	0.014	0.0023	83.3	39	114	0.015	3.65	25	
Acenaphthene	0.016	0.00073	0.014	0.0031	87.1	44	111	0.014	10.7	25	
Acenaphthylene	0.012	0.00073	0.014	0.00095	79.5	39	116	0.012	0.638	25	
Anthracene	0.021	0.00073	0.014	0.0089	84.5	50	114	0.020	4.30	25	
Benz(a)anthracene	0.091	0.00073	0.014	0.058	230	54	122	0.079	14.3	25	JQY
Benzo(a)pyrene	0.059	0.00073	0.014	0.041	121	50	125	0.054	8.19	25	J
Benzo(b)fluoranthene	0.10	0.00073	0.014	0.094	64.7	53	128	0.099	4.79	25	J
Benzo(g,h,i)perylene	0.042	0.00073	0.014	0.029	92.7	49	127	0.041	4.24	25	J
Benzo(k)fluoranthene	0.024	0.00073	0.014	0.077	-361	56	123	0.021	12.8	25	Q
Chrysene	0.053	0.00073	0.014	0.042	77.8	57	118	0.052	0.923	25	J
Dibenzo(a,h)anthracene	0.023	0.00073	0.014	0.0053	122	50	129	0.021	7.47	25	
Fluoranthene	0.12	0.00073	0.014	0.091	171	55	119	0.10	10.6	25	JQ
Fluorene	0.017	0.00073	0.014	0.0035	91.7	47	114	0.015	8.65	25	
Indeno(1,2,3-cd)pyrene	0.036	0.00073	0.014	0.024	77.8	49	130	0.034	4.69	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID:	**1606506-006AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/21/2016**	RunNo:	**87666**
Client ID:	**034-SS03-01SD1**	Batch ID:	**40214**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/8/2016**	SeqNo:	**1703033**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.013	0.00073	0.014	0.0022	71.8	38	111	0.013	2.91	25	
Phenanthrene	0.082	0.00073	0.014	0.054	198	49	113	0.070	16.5	25	JQ
Pyrene	0.12	0.00073	0.014	0.086	203	55	117	0.11	9.26	25	JQ
Surr: 2-Fluorobiphenyl	15		18.07		83.1	46	115		0	25	
Surr: Nitrobenzene-d5	18		18.07		96.9	44	125		0	25	
Surr: Terphenyl-d14	18		18.07		102	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	**LCS-40258**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**%Rec**	Prep Date:	**6/26/2016**	RunNo:	**87786**
Client ID:	**LCSS**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/1/2016**	SeqNo:	**1706011**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	20		16.26		124	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		145	44	125				Q
Surr: Terphenyl-d14	22		16.26		134	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40282**

Sample ID:	MB-40282	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	PBS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697068

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									UG
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40282	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	LCSS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697069

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	26	5.0	25	0	104	74	119				
Antimony	23	1.0	25	0	90.1	79	114				
Arsenic	23	2.0	25	0	91.3	82	111				
Barium	25	10	25	0	98.9	83	113				
Beryllium	24	0.25	25	0	95.9	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40282

Sample ID:	LCS-40282	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	LCSS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697069

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	22	0.25	25	0	89.8	82	113				
Calcium	230	50	250	0	90.7	81	116				
Chromium	23	0.50	25	0	92.6	85	113				
Cobalt	24	1.0	25	0	95.3	85	112				G
Copper	26	5.0	25	0	103	81	117				
Iron	230	15	250	0	93.4	81	118				
Lead	24	5.0	25	0	97.2	81	112				
Magnesium	230	50	250	0	93.4	78	115				
Manganese	26	1.0	25	0	104	84	114				
Nickel	23	5.0	25	0	90.5	83	113				
Potassium	240	20	250	0	94.4	81	116				
Selenium	25	2.0	25	0	100	78	111				
Silver	23	1.0	25	0	90.1	82	112				
Sodium	230	50	250	0	93.0	83	118				
Vanadium	23	2.5	25	0	93.0	82	114				
Zinc	23	5.0	25	0	91.5	82	113				

Sample ID:	1606506-006CMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	034-SS03-01MS1	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,200	3.5	18	7,700	2,770	74	119				Q
Antimony	17	0.71	18	2.4	83.7	79	114				
Arsenic	17	1.4	18	2.7	79.2	82	111				Q
Barium	39	7.1	18	16	128	83	113				Q
Beryllium	16	0.18	18	0	88.7	83	113				
Cadmium	16	0.18	18	0.032	87.6	82	113				
Calcium	1,100	35	180	660	240	81	116				Q
Chromium	27	0.35	18	12	86.0	85	113				
Cobalt	17	0.71	18	2.6	83.3	85	112				QG
Copper	44	3.5	18	25	106	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40282

Sample ID: **1606506-006CMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **87406**

Client ID: **034-SS03-01MS1** Batch ID: **40282** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/14/2016** SeqNo: **1697108**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,800	11	180	9,500	133	81	118				JQ
Lead	27	3.5	18	8.1	108	81	112				
Magnesium	1,300	35	180	960	178	78	115				Q
Manganese	180	0.71	18	140	202	84	114				Q
Nickel	22	3.5	18	5.3	91.9	83	113				
Potassium	720	14	180	420	169	81	116				Q
Selenium	12	1.4	18	0	69.3	78	111				Q
Silver	15	0.71	18	0	86.7	82	112				
Sodium	240	35	180	66	95.6	83	118				
Vanadium	33	1.8	18	19	82.2	82	114				
Zinc	32	3.5	18	14	97.6	82	113				

Sample ID: **1606506-006CMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **87406**

Client ID: **034-SS03-01SD1** Batch ID: **40282** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/14/2016** SeqNo: **1697109**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,200	3.5	18	7,700	-3,020	74	119	8,200	13.3	20	Q
Antimony	17	0.70	18	2.4	85.5	79	114	17	1.25	20	
Arsenic	17	1.4	18	2.7	81.7	82	111	17	2.06	20	Q
Barium	35	7.0	18	16	105	83	113	39	11.4	20	
Beryllium	16	0.18	18	0	92.1	83	113	16	3.05	20	
Cadmium	16	0.18	18	0.032	89.8	82	113	16	1.88	20	
Calcium	890	35	180	660	133	81	116	1,100	19.3	20	Q
Chromium	26	0.35	18	12	84.5	85	113	27	1.33	20	Q
Cobalt	18	0.70	18	2.6	87.0	85	112	17	3.23	20	G
Copper	41	3.5	18	25	91.2	81	117	44	6.29	20	
Iron	8,900	11	180	9,500	-384	81	118	9,800	9.77	20	JQ
Lead	26	3.5	18	8.1	101	81	112	27	5.11	20	
Magnesium	1,100	35	180	960	83.6	78	115	1,300	14.1	20	
Manganese	160	0.70	18	140	134	84	114	180	7.10	20	Q
Nickel	21	3.5	18	5.3	89.5	83	113	22	2.46	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40282

Sample ID:	1606506-006CMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	034-SS03-01SD1	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697109

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	620	14	180	420	118	81	116	720	13.8	20	Q
Selenium	15	1.4	18	0	83.4	78	111	12	17.8	20	
Silver	15	0.70	18	0	88.1	82	112	15	0.935	20	
Sodium	240	35	180	66	98.0	83	118	240	1.32	20	
Vanadium	33	1.8	18	19	80.2	82	114	33	1.31	20	Q
Zinc	30	3.5	18	14	87.3	82	113	32	6.21	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40321**

Sample ID:	LCS-40321	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87279
Client ID:	LCSS	Batch ID:	40321	TestNo:	SW8082	SW3546		Analysis Date:	7/7/2016	SeqNo:	1694036

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.033	0.16	0	91.8	46	129				
Aroclor 1260	0.16	0.033	0.16	0	96.7	45	134				
Surr: Tetrachloro-m-xylene	6.5		8.245		78.9	44	130				
Surr: Decachlorobiphenyl	7.4		8.245		89.2	40	135				

Sample ID:	LCSD-40321	Samp Type:	LCSD	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87279
Client ID:	LCSS02	Batch ID:	40321	TestNo:	SW8082	SW3546		Analysis Date:	7/7/2016	SeqNo:	1694037

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.033	0.17	0	87.1	46	129	0.15	4.34	25	
Aroclor 1260	0.15	0.033	0.17	0	92.0	45	134	0.16	4.11	25	
Surr: Tetrachloro-m-xylene	6.2		8.322		74.1	44	130		0	25	
Surr: Decachlorobiphenyl	7.0		8.322		83.6	40	135		0	25	

Sample ID:	MB-40321	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87279
Client ID:	PBS	Batch ID:	40321	TestNo:	SW8082	SW3546		Analysis Date:	7/7/2016	SeqNo:	1694038

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.6		8.311		91.4	44	130				
Surr: Decachlorobiphenyl	8.1		8.311		97.1	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40331

Sample ID:	1606506-006BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/5/2016	RunNo:	87353
Client ID:	034-SS03-01MS1	Batch ID:	40331	TestNo:	SW8082	SW3546		Analysis Date:	7/11/2016	SeqNo:	1695516

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.036	0.18	0	69.3	46	129				
Aroclor 1260	0.13	0.036	0.18	0	69.2	45	134				
Surr: Tetrachloro-m-xylene	5.0		9.078		55.6	44	130				
Surr: Decachlorobiphenyl	6.2		9.078		67.8	40	135				

Sample ID:	1606506-006BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/5/2016	RunNo:	87353
Client ID:	034-SS03-01SD1	Batch ID:	40331	TestNo:	SW8082	SW3546		Analysis Date:	7/11/2016	SeqNo:	1695517

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.036	0.18	0	77.3	46	129	0.13	11.8	25	
Aroclor 1260	0.14	0.036	0.18	0	78.9	45	134	0.13	13.9	25	
Surr: Tetrachloro-m-xylene	5.7		9.156		61.8	44	130		0	25	
Surr: Decachlorobiphenyl	7.1		9.156		77.4	40	135		0	25	

Sample ID:	LCS-40331	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87353
Client ID:	LCSS	Batch ID:	40331	TestNo:	SW8082	SW3546		Analysis Date:	7/11/2016	SeqNo:	1695542

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.033	0.17	0	90.4	46	129				
Aroclor 1260	0.15	0.033	0.17	0	92.9	45	134				
Surr: Tetrachloro-m-xylene	6.7		8.317		80.4	44	130				
Surr: Decachlorobiphenyl	7.8		8.317		93.4	40	135				

Sample ID:	MB-40331	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87353
Client ID:	PBS	Batch ID:	40331	TestNo:	SW8082	SW3546		Analysis Date:	7/11/2016	SeqNo:	1695543

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40331**

Sample ID:	MB-40331	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87353
Client ID:	PBS	Batch ID:	40331	TestNo:	SW8082	SW3546		Analysis Date:	7/11/2016	SeqNo:	1695543

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.1		8.231		86.2	44	130				
Surr: Decachlorobiphenyl	8.1		8.231		98.6	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40482**

Sample ID:	**1606467-020FMS**	Samp Type:	**MS**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**ZZZZZZ**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699649**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	6.4	0.13	6.7	0.041	94.6	83	118				G	

Sample ID:	**1606467-020FMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**ZZZZZZ**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699650**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.4	0.14	6.8	0.041	108	83	118	6.4	13.5	20	G	

Sample ID:	**LCS-40482**	Samp Type:	**LCS**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**LCSS**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699651**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	10	0.20	10	0	100	83	118				G	

Sample ID:	**MB-40482**	Samp Type:	**MBLK**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**PBS**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699652**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	0.20	0.20									UG	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40501**

Sample ID:	**LCS-40501**	Samp Type:	**LCS**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/21/2016**	RunNo:	**87609**	
Client ID:	**LCSS**	Batch ID:	**40501**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/26/2016**	SeqNo:	**1702241**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	10	0.20	10	0	104	83	118					

Sample ID:	**MB-40501**	Samp Type:	**MBLK**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/21/2016**	RunNo:	**87609**	
Client ID:	**PBS**	Batch ID:	**40501**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/26/2016**	SeqNo:	**1702242**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	0.20	0.20									U	

Sample ID:	**1606506-006CMS**	Samp Type:	**MS**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/21/2016**	RunNo:	**87609**	
Client ID:	**034-SS03-01MS1**	Batch ID:	**40501**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/26/2016**	SeqNo:	**1702244**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.2	0.14	7.2	0.10	98.6	83	118					

Sample ID:	**1606506-006CMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/21/2016**	RunNo:	**87609**	
Client ID:	**034-SS03-01SD1**	Batch ID:	**40501**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/26/2016**	SeqNo:	**1702245**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.2	0.14	7.0	0.10	101	83	118	7.2	0.247	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86766**

Sample ID:	**1606506-006C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86766**
Client ID:	**034-SS03-01LR1**	Batch ID:	**R86766**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683355**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	9.9	1.0						9.378	5.75	20	

Sample ID:	**1606512-005C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86766**
Client ID:	**ZZZZZZ**	Batch ID:	**R86766**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683367**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	72	1.0						72.95	1.15	20	

RTI Laboratories - Definitions and Acronyms

WO#: 1606506

Date Reported: 8/25/2016
Revision v3

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

1606506

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/14/16-03
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1 034-SB01	00	01	N	1	034-SS01-01	6/13/16	1245	SS	3	035							/	/	/			
2 034-SB01	01	02	N	1	034-SB01-02		1250	SO	3								/	/	/			
3 034-SS02	00	01	N	1	034-SS02-01		1240	SS	3								/	/	/			
4 034-SS02	00	01	N	1	034-SS02-02		1240	SS	3								/	/	/			*
5 034-SS02	01	02	FD	1	034-SS02-02DUP		1245	SO	3								/	/	/			
6 034-SS03	00	01	N	1	034-SS03-01		1220	SS	3								/	/	/			
6 034-SS03	00	01	MS	1	034-SS03-01MS		1220	SS	3								/	/	/			
6 034-SS03	00	01	SD	1	034-SS03-01MSD		1220	SS	3								/	/	/			
7 034-SS03	01	02	N	1	034-SS03-02		1230	SO	3								/	/	/			
8 034-SS04	00	01	N	1	034-SS04-01		1220	SS	3								/	/	/			
9 034-SS04	01	02	N	1	034-SS04-02		1225	SO	3								/	/	/			
10 034-SS04	01	02	FD	1	034-SS04-02DUP		1225	SO	3								/	/	/			
11 034-SS05	00	01	N	1	034-SS05-01		1210	SS	3								/	/	/			

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
[signature] - AECOM	6/14/16	1400	- transfer to FedEx	6/14/16	1400
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			[signature]	6/15/16	0950
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5762

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

* Duplicate sample reflects collection time of 12:45, parent sample label confirms collection at 12:45. Log-in 034-SS02-02 @ 12:45 on 6/13/16. RD2 6/17/16

RTI-77

160650

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	04/14/16-03
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1203A-SS05	01	02	N	1	03A-SS05-02	4/13/16	1210	SO	3	035							1	1	1			

1. Relinquished By / Company: AECOM — Date: 4/14/16 — Time: 1400
1. Received By / Company: Fed Ex to Fed Ex — Date: 4/14/16 — Time: 1400
2. Relinquished By / Company: — Date: — Time:
2. Received By / Company: Hand Carried for RTI — Date: 4/15/16 — Time: 0930
3. Relinquished By / Company: — Date: — Time:
3. Received By / Company: — Date: — Time:

Comments

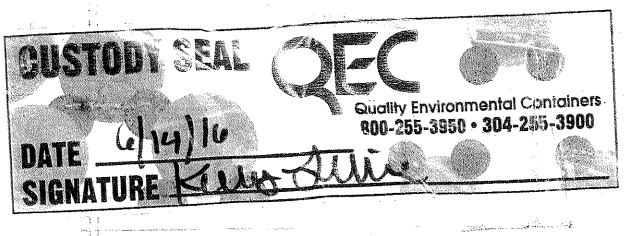
Shipment Method/Airbill No. 8105 0202 5762

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

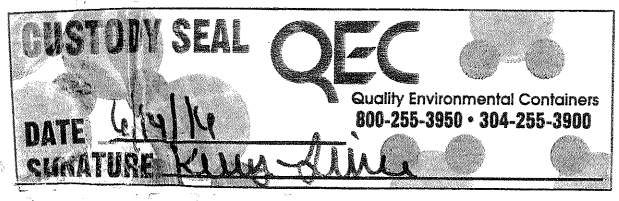
RTI-77

6/15/16 2



Cooler # 038
Cooler ID x321
CoC ID 061416-04
tracking 8103 0202 5730
Cooler Temp Blank: 1.6°C

Cooler # 036
Cooler ID: GLEC
CoC 061416-04
tracking 8103 0202 5751
Cooler Temp Blank 3.6 °C



Cooler #036
Cooler ID RT1-77
CoC 061416-03
track# 8103 0202 5762
Cooler Temp Blank 1.6°C

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606512

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606512-001A	WDS-SB12-05		6/13/2016 8:35 AM	6/15/2016 9:50 AM	Soil
1606512-001B	WDS-SB12-05		6/13/2016 8:35 AM	6/15/2016 9:50 AM	Soil
1606512-001C	WDS-SB12-05		6/13/2016 8:35 AM	6/15/2016 9:50 AM	Soil
1606512-002A	WDS-SB13-05		6/13/2016 8:20 AM	6/15/2016 9:50 AM	Soil
1606512-002B	WDS-SB13-05		6/13/2016 8:20 AM	6/15/2016 9:50 AM	Soil
1606512-002C	WDS-SB13-05		6/13/2016 8:20 AM	6/15/2016 9:50 AM	Soil
1606512-003A	H5-SS01-01		6/13/2016 9:50 AM	6/15/2016 9:50 AM	Soil
1606512-003B	H5-SS01-01		6/13/2016 9:50 AM	6/15/2016 9:50 AM	Soil
1606512-003C	H5-SS01-01		6/13/2016 9:50 AM	6/15/2016 9:50 AM	Soil
1606512-004A	H5-SS01-02		6/13/2016 9:55 AM	6/15/2016 9:50 AM	Soil
1606512-004B	H5-SS01-02		6/13/2016 9:55 AM	6/15/2016 9:50 AM	Soil
1606512-004C	H5-SS01-02		6/13/2016 9:55 AM	6/15/2016 9:50 AM	Soil
1606512-005A	H5-SS02-01		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606512-005B	H5-SS02-01		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606512-005C	H5-SS02-01		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606512-006A	H5-SS02-01 DUP		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606512-006B	H5-SS02-01 DUP		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606512-006C	H5-SS02-01 DUP		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606512-007A	H5-SS02-02		6/13/2016 9:20 AM	6/15/2016 9:50 AM	Soil
1606512-007B	H5-SS02-02		6/13/2016 9:20 AM	6/15/2016 9:50 AM	Soil
1606512-007C	H5-SS02-02		6/13/2016 9:20 AM	6/15/2016 9:50 AM	Soil
1606512-008A	H5-SS03-01		6/13/2016 9:35 AM	6/15/2016 9:50 AM	Soil
1606512-008B	H5-SS03-01		6/13/2016 9:35 AM	6/15/2016 9:50 AM	Soil
1606512-009A	H5-SS03-02		6/13/2016 9:40 AM	6/15/2016 9:50 AM	Soil
1606512-009B	H5-SS03-02		6/13/2016 9:40 AM	6/15/2016 9:50 AM	Soil
1606512-010A	H5-SS04-01		6/13/2016 9:05 AM	6/15/2016 9:50 AM	Soil
1606512-010B	H5-SS04-01		6/13/2016 9:05 AM	6/15/2016 9:50 AM	Soil
1606512-011A	H5-SS04-02		6/13/2016 9:10 AM	6/15/2016 9:50 AM	Soil
1606512-011B	H5-SS04-02		6/13/2016 9:10 AM	6/15/2016 9:50 AM	Soil
1606512-012A	WDS-SB08-05		6/13/2016 1:20 PM	6/15/2016 9:50 AM	Soil
1606512-012B	WDS-SB08-05		6/13/2016 1:20 PM	6/15/2016 9:50 AM	Soil
1606512-012C	WDS-SB08-05		6/13/2016 1:20 PM	6/15/2016 9:50 AM	Soil
1606512-013A	WDS-SB09-06		6/13/2016 1:05 PM	6/15/2016 9:50 AM	Soil
1606512-013B	WDS-SB09-06		6/13/2016 1:05 PM	6/15/2016 9:50 AM	Soil
1606512-013C	WDS-SB09-06		6/13/2016 1:05 PM	6/15/2016 9:50 AM	Soil
1606512-014A	WDS-SB11-08		6/13/2016 10:40 AM	6/15/2016 9:50 AM	Soil
1606512-014B	WDS-SB11-08		6/13/2016 10:40 AM	6/15/2016 9:50 AM	Soil
1606512-014C	WDS-SB11-08		6/13/2016 10:40 AM	6/15/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical Report revised 8/12/2016: Compound 3,3´-Dichlorobenzidine was missing in the SVOC analysis. Also Benzoic Acid was missing in the QC Summary report for the LCS, MS and MSD.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/OES - 6010C-STAR
- Metals, ICP/MS - 6020A-TL
- Polychlorinated Biphenyls - 8082A
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_8082S, Analytical Run No 87353, Batch ID 40331:
- Sample 1606512-003B: Surrogate recoveries for TCMX (16.4%) and DCB (16.6%) exceeded control limits.
- Sample 1606512-005B: Surrogate recovery for DCB (54%) exceeded control limits.
- Sample 1606512-006B: Surrogate recoveries for TCMX (24.4%) and DCB (28.6%) exceeded control limits.
- Sample 1606512-008A: Surrogate recoveries for TCMX (18.5%) and DCB (20.6%) exceeded control limits.
- Sample 1606512-009A: Surrogate recoveries for TCMX (29.5%) and DCB (31.3%) exceeded control limits.
- Sample 1606512-011A: Surrogate recoveries for TCMX (42.5%) and DCB (45.4%) exceeded control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86961, Batch ID R86961:
- Sample ICV S8 050216: ICV results for Bis (2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
- Sample CCV S8 062616: CCV results 2,4-Dinitrophenol, Benzoic acid, N-Nitrosodiphenylamine and Pentachlorophenol exceeded control limit.
- Sample CCVE S8 062616: Ending CCV results for Benzoic acid, Hexachlorocyclopentadiene exceeded recovery control limit.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86961, Batch ID 40223:
Sample 1606512-003A: Surrogate recoveries for Nitrobenzene-d5, Phenol-d5, Terphenyl-d14, 2-Fluorobiphenyl, 2-Fluorophenol and 2,4,6-Tribromophenol were outside the control limits. Sample extract was a waxy nature, dilution performed.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86974, Batch ID R86974:
- Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
- Sample CCV S8 062516: 4-Nitrophenol, Benzoic acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine
- Sample CCVE S8 062516: Ending CCV results for Benzoic acid exceeded recovery control limit.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86974, Batch ID 40223:
Sample 1606512-005A: Surrogate recoveries for Nitrobenzene-d5, Phenol-d5, 2-Fluorobiphenyl, 2-Fluorophenol and 2,4,6-Tribromophenol were outside the control limits. Sample extract was a waxy nature, dilution performed.
Sample 1606512-006A: Surrogate recoveries for Terphenyl-d14 and 2-Fluorobiphenyl were outside the control limits. Sample extract was a waxy nature, dilution performed.
Sample 1606512-007A: Surrogate recoveries for Nitrobenzene-d5, Phenol-d5, Terphenyl-d14, 2-Fluorobiphenyl, and 2-Fluorophenol were outside the control limits. Sample extract was a waxy nature, dilution performed.
Sample LCS-40223: Spike recovery for 3,3´-Dichlorobenzidine was outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87666, Batch ID R87666:
Sample CCV SIM 070816S7: CCV results for Benz(a)anthracene exceed the 20% criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87666, Batch ID 40214:
Sample 1606512-002A: Surrogate recovery for Terphenyl-d14 was outside the control limits.
Sample 1606512-003A: Surrogate recovery for Terphenyl-d14 was outside the control limits.
Sample 1606506-006A MS: Spike recoveries for Benz(a)Anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene and Pyrene were outside the control limits.
Sample 1606506-006A MSD: Spike recoveries for Benz(a)anthracene, Benzo(k)fluoranthene, Fluoranthene, Phenanthrene and Pyrene were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87809, Batch ID 40214:
Sample 1606512-006A: Surrogate recovery for 2-Fluorobiphenyl was outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87809, Batch ID 40214:
Sample 1606512-005A: Recovery for Internal Standards exceeded control limits due to elevated concentrations of target and non-target analytes in the sample. Sample was re-analyzed and results were similar.
Sample 1606512-006A: Recovery for Internal Standards exceeded control limits due to elevated concentrations of target and non-target analytes in the sample. Sample was re-analyzed and results were similar.
Sample 1606512-007A: Recovery for Internal Standards exceeded control limits due to elevated concentrations of target and non-target analytes in the sample. Sample was re-analyzed and results were similar.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87809, Batch ID R87809:
Sample CCV SIM 071416S7: CCV results for Benz(a)anthracene, Benzo(b)fluoranthene and Benzo(k)fluoranthene exceed the 20% criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87836, Batch ID 40228:
Sample 1606512-012A: Initial analysis performed with in hold time. Sample required an additional dilution for 5 analytes; this dilution was performed past the recommended hold time.

Analytical Comments for Test SW_6010S, Analytical Run No 87406, Batch ID 40282:
Sample 1606506-006C MS/MSD: Spike recoveries for several analytes were outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87158, Batch ID 40326:
Sample 1606601-008C MS/MSD: Spike recoveries for several analytes were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87669, Batch ID 87669:
Sample CCVE SIM S7 072116: Ending CCV results for Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Dibenz(a,h)anthracene and Indeno(1,2,3-cd)pyrene exceeded the 50% criteria.

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 8:35:00 AM
Project:	Camp Hero		
Lab ID:	1606512-001	**Matrix:**	Soil
Client Sample ID:	WDS-SB12-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0074	U	0.0033	0.0074	0.036	mg/Kg-dry	1	7/11/2016 10:09 PM
Aroclor 1221	0.0074	U	0.0033	0.0074	0.036	mg/Kg-dry	1	7/11/2016 10:09 PM
Aroclor 1232	0.0074	U	0.0050	0.0074	0.036	mg/Kg-dry	1	7/11/2016 10:09 PM
Aroclor 1242	0.0074	U	0.0041	0.0074	0.036	mg/Kg-dry	1	7/11/2016 10:09 PM
Aroclor 1248	0.0074	U	0.0039	0.0074	0.036	mg/Kg-dry	1	7/11/2016 10:09 PM
Aroclor 1254	0.0074	U	0.0047	0.0074	0.036	mg/Kg-dry	1	7/11/2016 10:09 PM
Aroclor 1260	0.0074	U	0.0032	0.0074	0.036	mg/Kg-dry	1	7/11/2016 10:09 PM
Aroclor 1262	0.0074	U	0.0032	0.0074	0.036	mg/Kg-dry	1	7/11/2016 10:09 PM
Aroclor 1268	0.0074	U	0.0027	0.0074	0.036	mg/Kg-dry	1	7/11/2016 10:09 PM
Surr: Tetrachloro-m-xylene	62.6			44-130		%Rec	1	7/11/2016 10:09 PM
Surr: Decachlorobiphenyl	80.6			60-125		%Rec	1	7/11/2016 10:09 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,300		54	140	360	mg/Kg-dry	100	7/14/2016 3:46 PM
Antimony	2.2		0.27	0.36	0.72	mg/Kg-dry	1	7/14/2016 2:55 PM
Arsenic	1.7		0.52	0.72	1.4	mg/Kg-dry	1	7/14/2016 2:55 PM
Barium	17		0.21	3.6	7.2	mg/Kg-dry	1	7/14/2016 2:55 PM
Beryllium	0.036	U	0.0092	0.036	0.18	mg/Kg-dry	1	7/14/2016 2:55 PM
Cadmium	0.033	J	0.024	0.036	0.18	mg/Kg-dry	1	7/14/2016 2:55 PM
Calcium	490		2.1	7.2	36	mg/Kg-dry	1	7/14/2016 2:55 PM
Chromium	12		0.059	0.29	0.36	mg/Kg-dry	1	7/14/2016 2:55 PM
Cobalt	2.4		0.065	0.18	0.72	mg/Kg-dry	1	7/14/2016 2:55 PM
Copper	20		0.30	0.72	3.6	mg/Kg-dry	1	7/14/2016 2:55 PM
Iron	9,200		230	360	1,100	mg/Kg-dry	100	7/14/2016 3:46 PM
Lead	2.8	J	0.45	0.72	3.6	mg/Kg-dry	1	7/14/2016 2:55 PM
Magnesium	1,200		2.5	3.6	36	mg/Kg-dry	1	7/14/2016 2:55 PM
Manganese	90		0.13	0.18	0.72	mg/Kg-dry	1	7/14/2016 2:55 PM
Nickel	5.6		0.20	0.72	3.6	mg/Kg-dry	1	7/14/2016 2:55 PM
Potassium	400		1.7	7.2	14	mg/Kg-dry	1	7/14/2016 2:55 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/14/2016 2:55 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/14/2016 2:55 PM
Sodium	65		1.5	3.6	36	mg/Kg-dry	1	7/14/2016 2:55 PM
Vanadium	17		0.092	0.72	1.8	mg/Kg-dry	1	7/14/2016 2:55 PM
Zinc	11		0.28	0.36	3.6	mg/Kg-dry	1	7/14/2016 2:55 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.076	J	0.034	0.035	0.14	mg/Kg-dry	10	7/26/2016 4:53 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 8:35:00 AM
Project: Camp Hero
Lab ID: 1606512-001 **Matrix:** Soil
Client Sample ID: WDS-SB12-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
2,4-Dichlorophenol	0.090	U	0.031	0.090	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
2,4-Dimethyl phenol	0.090	U	0.035	0.090	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.90	mg/Kg-dry	1	6/25/2016 8:12 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
2-Chlorophenol	0.090	U	0.038	0.090	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
2-Methylphenol (o-Cresol)	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
2-Nitroaniline	0.018	U	0.0088	0.018	0.35	mg/Kg-dry	1	6/25/2016 8:12 PM
2-Nitrophenol	0.090	U	0.045	0.090	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
3,3´-Dichlorobenzidine	0.72	UQ	0.46	0.72	1.1	mg/Kg-dry	1	6/25/2016 8:12 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/25/2016 8:12 PM
3/4-Methylphenol [m/p-Cresol]	0.090	U	0.064	0.090	0.35	mg/Kg-dry	1	6/25/2016 8:12 PM
4,6-Dinitro-2-methylphenol	0.090	U	0.052	0.090	0.35	mg/Kg-dry	1	6/25/2016 8:12 PM
4-Bromophenyl phenyl ether	0.090	U	0.046	0.090	0.22	mg/Kg-dry	1	6/25/2016 8:12 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
4-Chloroaniline [p-Chloroaniline]	0.090	U	0.027	0.090	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
4-Nitroaniline	0.090	U	0.026	0.090	0.35	mg/Kg-dry	1	6/25/2016 8:12 PM
4-Nitrophenol	0.36	UY	0.26	0.36	0.90	mg/Kg-dry	1	6/25/2016 8:12 PM
Benzoic acid	0.36	UYZ	0.15	0.36	1.1	mg/Kg-dry	1	6/25/2016 8:12 PM
Benzyl alcohol	0.018	U	0.0087	0.018	0.71	mg/Kg-dry	1	6/25/2016 8:12 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0082	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.054	mg/Kg-dry	1	6/25/2016 8:12 PM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
N-Nitrosodimethylamine	0.018	UY	0.0088	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
N-Nitrosodiphenylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Pentachlorophenol	0.090	U	0.068	0.090	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Phenol	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	6/25/2016 8:12 PM
Surr: 2,4,6-Tribromophenol	81.9			39-132		%Rec	1	6/25/2016 8:12 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 8:35:00 AM
Project:	Camp Hero		
Lab ID:	1606512-001	**Matrix:**	Soil
Client Sample ID:	WDS-SB12-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	73.7			44-115		%Rec	1	6/25/2016 8:12 PM
Surr: 2-Fluorophenol	71.7			35-115		%Rec	1	6/25/2016 8:12 PM
Surr: Nitrobenzene-d5	76.5			37-122		%Rec	1	6/25/2016 8:12 PM
Surr: Phenol-d5	71.7			33-122		%Rec	1	6/25/2016 8:12 PM
Surr: Terphenyl-d14	77.8			54-127		%Rec	1	6/25/2016 8:12 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
2-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Acenaphthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Acenaphthylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Anthracene	0.0012		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Benzo(a)anthracene	0.014	Y	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Benzo(a)pyrene	0.013		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Benzo(b)fluoranthene	0.030		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Benzo(g,h,i)perylene	0.0064		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Benzo(k)fluoranthene	0.0041		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Chrysene	0.0095		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Dibenzo(a,h)anthracene	0.0013		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Fluoranthene	0.019		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Fluorene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Indeno(1,2,3-cd)pyrene	0.0054		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Naphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Phenanthrene	0.0084		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Pyrene	0.021		0.00075	0.00075	0.00075	mg/Kg-dry	1	7/9/2016 1:18 AM
Surr: 2-Fluorobiphenyl	74.7			46-115		%Rec	1	7/9/2016 1:18 AM
Surr: Nitrobenzene-d5	88.0			44-125		%Rec	1	7/9/2016 1:18 AM
Surr: Terphenyl-d14	102			58-133		%Rec	1	7/9/2016 1:18 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 8:20:00 AM
Project:	Camp Hero		
Lab ID:	1606512-002	**Matrix:**	Soil
Client Sample ID:	WDS-SB13-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/12/2016 12:11 AM
Aroclor 1221	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/12/2016 12:11 AM
Aroclor 1232	0.0075	U	0.0050	0.0075	0.037	mg/Kg-dry	1	7/12/2016 12:11 AM
Aroclor 1242	0.0075	U	0.0042	0.0075	0.037	mg/Kg-dry	1	7/12/2016 12:11 AM
Aroclor 1248	0.0075	U	0.0039	0.0075	0.037	mg/Kg-dry	1	7/12/2016 12:11 AM
Aroclor 1254	0.0075	U	0.0047	0.0075	0.037	mg/Kg-dry	1	7/12/2016 12:11 AM
Aroclor 1260	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/12/2016 12:11 AM
Aroclor 1262	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/12/2016 12:11 AM
Aroclor 1268	0.0075	U	0.0027	0.0075	0.037	mg/Kg-dry	1	7/12/2016 12:11 AM
Surr: Tetrachloro-m-xylene	53.3			44-130		%Rec	1	7/12/2016 12:11 AM
Surr: Decachlorobiphenyl	67.8			60-125		%Rec	1	7/12/2016 12:11 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	10,000		55	150	370	mg/Kg-dry	100	7/5/2016 1:44 PM
Antimony	2.5		0.28	0.37	0.73	mg/Kg-dry	1	7/5/2016 12:28 PM
Arsenic	1.4	J	0.53	0.73	1.5	mg/Kg-dry	1	7/5/2016 12:28 PM
Barium	18		0.22	3.7	7.3	mg/Kg-dry	1	7/5/2016 12:28 PM
Beryllium	0.15	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/5/2016 12:28 PM
Cadmium	0.049	J	0.024	0.037	0.18	mg/Kg-dry	1	7/5/2016 12:28 PM
Calcium	520		2.2	7.3	37	mg/Kg-dry	1	7/5/2016 12:28 PM
Chromium	13		0.060	0.29	0.37	mg/Kg-dry	1	7/5/2016 12:28 PM
Cobalt	2.5		0.066	0.18	0.73	mg/Kg-dry	1	7/5/2016 12:28 PM
Copper	23		0.31	0.73	3.7	mg/Kg-dry	1	7/5/2016 12:28 PM
Iron	8,800		23	37	110	mg/Kg-dry	10	7/5/2016 1:16 PM
Lead	4.5		0.46	0.73	3.7	mg/Kg-dry	1	7/5/2016 12:28 PM
Magnesium	1,700		2.6	3.7	37	mg/Kg-dry	1	7/5/2016 12:28 PM
Manganese	87		0.14	0.18	0.73	mg/Kg-dry	1	7/5/2016 12:28 PM
Nickel	6.8		0.21	0.73	3.7	mg/Kg-dry	1	7/5/2016 12:28 PM
Potassium	560		1.7	7.3	15	mg/Kg-dry	1	7/5/2016 12:28 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/5/2016 12:28 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/5/2016 12:28 PM
Sodium	67		1.5	3.7	37	mg/Kg-dry	1	7/5/2016 12:28 PM
Vanadium	18		0.093	0.73	1.8	mg/Kg-dry	1	7/5/2016 12:28 PM
Zinc	13		0.28	0.37	3.7	mg/Kg-dry	1	7/5/2016 12:28 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.073	J	0.035	0.036	0.15	mg/Kg-dry	10	7/26/2016 4:53 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
1,2-Dichlorobenzene	0.018	U	0.0079	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
1,4-Dichlorobenzene	0.018	U	0.0059	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 8:20:00 AM
Project:	Camp Hero		
Lab ID:	1606512-002	**Matrix:**	Soil
Client Sample ID:	WDS-SB13-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
2,4-Dichlorophenol	0.092	U	0.032	0.092	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
2,4-Dimethyl phenol	0.092	U	0.035	0.092	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.92	mg/Kg-dry	1	6/25/2016 8:37 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
2-Chlorophenol	0.092	U	0.038	0.092	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
2-Methylphenol (o-Cresol)	0.092	U	0.040	0.092	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
2-Nitroaniline	0.018	U	0.0089	0.018	0.35	mg/Kg-dry	1	6/25/2016 8:37 PM
2-Nitrophenol	0.092	U	0.046	0.092	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
3,3´-Dichlorobenzidine	0.74	UQ	0.47	0.74	1.1	mg/Kg-dry	1	6/25/2016 8:37 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/25/2016 8:37 PM
3/4-Methylphenol [m/p-Cresol]	0.092	U	0.066	0.092	0.35	mg/Kg-dry	1	6/25/2016 8:37 PM
4,6-Dinitro-2-methylphenol	0.092	U	0.053	0.092	0.35	mg/Kg-dry	1	6/25/2016 8:37 PM
4-Bromophenyl phenyl ether	0.092	U	0.047	0.092	0.22	mg/Kg-dry	1	6/25/2016 8:37 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
4-Chloroaniline [p-Chloroaniline]	0.092	U	0.028	0.092	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
4-Nitroaniline	0.092	U	0.026	0.092	0.35	mg/Kg-dry	1	6/25/2016 8:37 PM
4-Nitrophenol	0.37	UY	0.26	0.37	0.92	mg/Kg-dry	1	6/25/2016 8:37 PM
Benzoic acid	0.37	UYZ	0.15	0.37	1.1	mg/Kg-dry	1	6/25/2016 8:37 PM
Benzyl alcohol	0.018	U	0.0089	0.018	0.73	mg/Kg-dry	1	6/25/2016 8:37 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0084	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.032	0.037	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Carbazole	0.42		0.013	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Di-n-octyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Dibenzofuran	0.20		0.0094	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Hexachlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	6/25/2016 8:37 PM
Hexachloroethane	0.018	U	0.0085	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Isophorone	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
N-Nitrosodimethylamine	0.018	UY	0.0089	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
N-Nitrosodiphenylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Nitrobenzene	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Pentachlorophenol	0.092	U	0.069	0.092	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Phenol	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	6/25/2016 8:37 PM
Surr: 2,4,6-Tribromophenol	90.0			39-132		%Rec	1	6/25/2016 8:37 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 8:20:00 AM
Project:	Camp Hero		
Lab ID:	1606512-002	**Matrix:**	Soil
Client Sample ID:	WDS-SB13-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	80.0			44-115		%Rec	1	6/25/2016 8:37 PM
Surr: 2-Fluorophenol	76.1			35-115		%Rec	1	6/25/2016 8:37 PM
Surr: Nitrobenzene-d5	85.1			37-122		%Rec	1	6/25/2016 8:37 PM
Surr: Phenol-d5	78.4			33-122		%Rec	1	6/25/2016 8:37 PM
Surr: Terphenyl-d14	89.1			54-127		%Rec	1	6/25/2016 8:37 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.015		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/9/2016 1:47 AM
2-Methylnaphthalene	0.013		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/9/2016 1:47 AM
Acenaphthene	0.12		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Acenaphthylene	0.016		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/9/2016 1:47 AM
Anthracene	0.58		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Benzo(a)anthracene	1.8		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Benzo(a)pyrene	1.3		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Benzo(b)fluoranthene	1.9		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Benzo(g,h,i)perylene	0.44		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Benzo(k)fluoranthene	0.54		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Chrysene	1.2		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Dibenzo(a,h)anthracene	0.074	U	0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Fluoranthene	3.5		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Fluorene	0.16		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Indeno(1,2,3-cd)pyrene	0.54		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Naphthalene	0.015		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/9/2016 1:47 AM
Phenanthrene	2.1		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Pyrene	2.7		0.074	0.074	0.074	mg/Kg-dry	100	7/28/2016 2:21 PM
Surr: 2-Fluorobiphenyl	73.9			46-115		%Rec	1	7/9/2016 1:47 AM
Surr: Nitrobenzene-d5	90.1			44-125		%Rec	1	7/9/2016 1:47 AM
Surr: Terphenyl-d14	139	Q		58-133		%Rec	1	7/9/2016 1:47 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:50:00 AM
Project:	Camp Hero		
Lab ID:	1606512-003	**Matrix:**	Soil
Client Sample ID:	H5-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.021	U	0.0093	0.021	0.10	mg/Kg-dry	1	7/12/2016 12:36 AM
Aroclor 1221	0.021	U	0.0092	0.021	0.10	mg/Kg-dry	1	7/12/2016 12:36 AM
Aroclor 1232	0.021	U	0.014	0.021	0.10	mg/Kg-dry	1	7/12/2016 12:36 AM
Aroclor 1242	0.021	U	0.011	0.021	0.10	mg/Kg-dry	1	7/12/2016 12:36 AM
Aroclor 1248	0.021	U	0.011	0.021	0.10	mg/Kg-dry	1	7/12/2016 12:36 AM
Aroclor 1254	0.021	U	0.013	0.021	0.10	mg/Kg-dry	1	7/12/2016 12:36 AM
Aroclor 1260	0.021	U	0.0090	0.021	0.10	mg/Kg-dry	1	7/12/2016 12:36 AM
Aroclor 1262	0.021	U	0.0090	0.021	0.10	mg/Kg-dry	1	7/12/2016 12:36 AM
Aroclor 1268	0.021	U	0.0075	0.021	0.10	mg/Kg-dry	1	7/12/2016 12:36 AM
Surr: Tetrachloro-m-xylene	16.4	Q		44-130		%Rec	1	7/12/2016 12:36 AM
Surr: Decachlorobiphenyl	16.6	Q		60-125		%Rec	1	7/12/2016 12:36 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	7,700		150	410	1,000	mg/Kg-dry	100	7/5/2016 1:45 PM
Antimony	1.5	J	0.77	1.0	2.1	mg/Kg-dry	1	7/5/2016 12:29 PM
Arsenic	2.6	J	1.5	2.1	4.1	mg/Kg-dry	1	7/5/2016 12:29 PM
Barium	54		0.61	10	21	mg/Kg-dry	1	7/5/2016 12:29 PM
Beryllium	1.0		0.026	0.10	0.51	mg/Kg-dry	1	7/5/2016 12:29 PM
Cadmium	0.81		0.068	0.10	0.51	mg/Kg-dry	1	7/5/2016 12:29 PM
Calcium	490		6.0	21	100	mg/Kg-dry	1	7/5/2016 12:29 PM
Chromium	5.0		0.17	0.82	1.0	mg/Kg-dry	1	7/5/2016 12:29 PM
Cobalt	1.4	J	0.18	0.51	2.1	mg/Kg-dry	1	7/5/2016 12:29 PM
Copper	13		0.85	2.1	10	mg/Kg-dry	1	7/5/2016 12:29 PM
Iron	2,100		6.4	10	31	mg/Kg-dry	1	7/5/2016 12:29 PM
Lead	20		1.3	2.1	10	mg/Kg-dry	1	7/5/2016 12:29 PM
Magnesium	210		7.2	10	100	mg/Kg-dry	1	7/5/2016 12:29 PM
Manganese	13		0.38	0.51	2.1	mg/Kg-dry	1	7/5/2016 12:29 PM
Nickel	4.4	J	0.58	2.1	10	mg/Kg-dry	1	7/5/2016 12:29 PM
Potassium	250		4.8	21	41	mg/Kg-dry	1	7/5/2016 12:29 PM
Selenium	3.1	U	2.4	3.1	4.1	mg/Kg-dry	1	7/5/2016 12:29 PM
Silver	0.58	J	0.17	0.51	2.1	mg/Kg-dry	1	7/5/2016 12:29 PM
Sodium	210		4.2	10	100	mg/Kg-dry	1	7/5/2016 12:29 PM
Vanadium	8.6		0.26	2.1	5.1	mg/Kg-dry	1	7/5/2016 12:29 PM
Zinc	35		0.79	1.0	10	mg/Kg-dry	1	7/5/2016 12:29 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.099	U	0.096	0.099	0.40	mg/Kg-dry	10	7/26/2016 4:54 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.15	U	0.086	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
1,2-Dichlorobenzene	0.15	U	0.066	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
1,3-Dichlorobenzene	0.15	U	0.063	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
1,4-Dichlorobenzene	0.15	U	0.049	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
2,4,5-Trichlorophenol	0.31	U	0.15	0.31	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 9:50:00 AM
Project: Camp Hero
Lab ID: 1606512-003 **Matrix:** Soil
Client Sample ID: H5-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.31	U	0.17	0.31	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
2,4-Dichlorophenol	0.77	U	0.26	0.77	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
2,4-Dimethyl phenol	0.77	U	0.29	0.77	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
2,4-Dinitrophenol	1.5	UY	0.87	1.5	7.6	mg/Kg-dry	3	6/26/2016 2:42 PM
2,4-Dinitrotoluene	0.15	U	0.13	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
2,6-Dinitrotoluene	0.15	U	0.15	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
2-Chloronaphthalene	0.15	U	0.10	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
2-Chlorophenol	0.77	U	0.32	0.77	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
2-Methylphenol (o-Cresol)	0.77	U	0.33	0.77	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
2-Nitroaniline	0.15	U	0.075	0.15	2.9	mg/Kg-dry	3	6/26/2016 2:42 PM
2-Nitrophenol	0.77	U	0.38	0.77	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
3,3´-Dichlorobenzidine	6.1	U	3.9	6.1	9.2	mg/Kg-dry	3	6/26/2016 2:42 PM
3-Nitroaniline	0.15	U	0.11	0.15	2.9	mg/Kg-dry	3	6/26/2016 2:42 PM
3/4-Methylphenol [m/p-Cresol]	0.77	U	0.55	0.77	2.9	mg/Kg-dry	3	6/26/2016 2:42 PM
4,6-Dinitro-2-methylphenol	0.77	U	0.44	0.77	2.9	mg/Kg-dry	3	6/26/2016 2:42 PM
4-Bromophenyl phenyl ether	0.77	U	0.39	0.77	1.8	mg/Kg-dry	3	6/26/2016 2:42 PM
4-Chloro-3-methylphenol	0.31	U	0.16	0.31	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
4-Chloroaniline [p-Chloroaniline]	0.77	U	0.23	0.77	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
4-Chlorophenyl phenyl ether	0.15	U	0.093	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
4-Nitroaniline	0.77	U	0.22	0.77	2.9	mg/Kg-dry	3	6/26/2016 2:42 PM
4-Nitrophenol	3.1	U	2.2	3.1	7.6	mg/Kg-dry	3	6/26/2016 2:42 PM
Benzoic acid	3.1	UYZ	1.2	3.1	9.2	mg/Kg-dry	3	6/26/2016 2:42 PM
Benzyl alcohol	0.15	U	0.074	0.15	6.1	mg/Kg-dry	3	6/26/2016 2:42 PM
Bis(2-chloroethoxy) methane	0.15	U	0.064	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Bis(2-chloroethyl) ether	0.31	U	0.16	0.31	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Bis(2-chloroisopropyl)ether	0.15	UZ	0.070	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Bis(2-ethylhexyl) phthalate	0.31	U	0.27	0.31	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Butyl benzyl phthalate	0.31	U	0.18	0.31	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Carbazole	0.15	U	0.11	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Di-n-butyl phthalate	0.31	U	0.17	0.31	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Di-n-octyl phthalate	0.15	U	0.10	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Dibenzofuran	0.15	U	0.078	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Diethyl phthalate	0.15	U	0.11	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Dimethyl phthalate	0.15	U	0.10	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Hexachlorobenzene	0.15	U	0.083	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Hexachlorobutadiene	0.15	U	0.14	0.15	0.46	mg/Kg-dry	3	6/26/2016 2:42 PM
Hexachloroethane	0.15	U	0.071	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Isophorone	0.15	U	0.063	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
N-Nitroso-di-n-propylamine	0.15	U	0.085	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
N-Nitrosodimethylamine	0.15	U	0.075	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
N-Nitrosodiphenylamine	0.15	UY	0.074	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Nitrobenzene	0.15	U	0.095	0.15	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Pentachlorophenol	0.77	UY	0.58	0.77	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Phenol	0.77	U	0.33	0.77	1.5	mg/Kg-dry	3	6/26/2016 2:42 PM
Surr: 2,4,6-Tribromophenol	0	QU		39-132		%Rec	3	6/26/2016 2:42 PM
Surr: 2-Fluorobiphenyl	19.0	JQ		44-115		%Rec	3	6/26/2016 2:42 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:50:00 AM
Project:	Camp Hero		
Lab ID:	1606512-003	**Matrix:**	Soil
Client Sample ID:	H5-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	0	QU		35-115		%Rec	3	6/26/2016 2:42 PM
Surr: Nitrobenzene-d5	18.1	JQ		37-122		%Rec	3	6/26/2016 2:42 PM
Surr: Phenol-d5	0	QU		33-122		%Rec	3	6/26/2016 2:42 PM
Surr: Terphenyl-d14	21.8	JQ		54-127		%Rec	3	6/26/2016 2:42 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
2-Methylnaphthalene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Acenaphthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Acenaphthylene	0.0059		0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Benzo(a)anthracene	0.019	Y	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Benzo(a)pyrene	0.016		0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Benzo(b)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Benzo(g,h,i)perylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Benzo(k)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Chrysene	0.014		0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Dibenzo(a,h)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Fluoranthene	0.022		0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Fluorene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Indeno(1,2,3-cd)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Naphthalene	0.0027		0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Phenanthrene	0.018		0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Pyrene	0.043		0.0021	0.0021	0.0021	mg/Kg-dry	1	7/9/2016 2:15 AM
Surr: 2-Fluorobiphenyl	68.7			46-115		%Rec	1	7/9/2016 2:15 AM
Surr: Nitrobenzene-d5	90.1			44-125		%Rec	1	7/9/2016 2:15 AM
Surr: Terphenyl-d14	12.1	Q		58-133		%Rec	1	7/9/2016 2:15 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	68		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:55:00 AM
Project:	Camp Hero		
Lab ID:	1606512-004	**Matrix:**	Soil
Client Sample ID:	H5-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0092	U	0.0041	0.0092	0.045	mg/Kg-dry	1	7/12/2016 1:00 AM
Aroclor 1221	0.0092	U	0.0041	0.0092	0.045	mg/Kg-dry	1	7/12/2016 1:00 AM
Aroclor 1232	0.0092	U	0.0062	0.0092	0.045	mg/Kg-dry	1	7/12/2016 1:00 AM
Aroclor 1242	0.0092	U	0.0051	0.0092	0.045	mg/Kg-dry	1	7/12/2016 1:00 AM
Aroclor 1248	0.0092	U	0.0048	0.0092	0.045	mg/Kg-dry	1	7/12/2016 1:00 AM
Aroclor 1254	0.0092	U	0.0058	0.0092	0.045	mg/Kg-dry	1	7/12/2016 1:00 AM
Aroclor 1260	0.0092	U	0.0040	0.0092	0.045	mg/Kg-dry	1	7/12/2016 1:00 AM
Aroclor 1262	0.0092	U	0.0040	0.0092	0.045	mg/Kg-dry	1	7/12/2016 1:00 AM
Aroclor 1268	0.0092	U	0.0034	0.0092	0.045	mg/Kg-dry	1	7/12/2016 1:00 AM
Surr: Tetrachloro-m-xylene	69.1			44-130		%Rec	1	7/12/2016 1:00 AM
Surr: Decachlorobiphenyl	83.7			60-125		%Rec	1	7/12/2016 1:00 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	15,000		68	180	450	mg/Kg-dry	100	7/5/2016 1:46 PM
Antimony	0.98		0.34	0.45	0.91	mg/Kg-dry	1	7/5/2016 12:31 PM
Arsenic	0.91	U	0.66	0.91	1.8	mg/Kg-dry	1	7/5/2016 12:31 PM
Barium	19		0.27	4.5	9.1	mg/Kg-dry	1	7/5/2016 12:31 PM
Beryllium	0.29		0.011	0.045	0.23	mg/Kg-dry	1	7/5/2016 12:31 PM
Cadmium	0.074	J	0.030	0.045	0.23	mg/Kg-dry	1	7/5/2016 12:31 PM
Calcium	290		2.7	9.1	45	mg/Kg-dry	1	7/5/2016 12:31 PM
Chromium	17		0.075	0.36	0.45	mg/Kg-dry	1	7/5/2016 12:31 PM
Cobalt	0.90	J	0.081	0.23	0.91	mg/Kg-dry	1	7/5/2016 12:31 PM
Copper	8.1		0.38	0.91	4.5	mg/Kg-dry	1	7/5/2016 12:31 PM
Iron	2,200		2.8	4.5	14	mg/Kg-dry	1	7/5/2016 12:31 PM
Lead	6.3		0.56	0.91	4.5	mg/Kg-dry	1	7/5/2016 12:31 PM
Magnesium	880		3.2	4.5	45	mg/Kg-dry	1	7/5/2016 12:31 PM
Manganese	39		0.17	0.23	0.91	mg/Kg-dry	1	7/5/2016 12:31 PM
Nickel	3.9	J	0.26	0.91	4.5	mg/Kg-dry	1	7/5/2016 12:31 PM
Potassium	580		2.1	9.1	18	mg/Kg-dry	1	7/5/2016 12:31 PM
Selenium	1.4	U	1.1	1.4	1.8	mg/Kg-dry	1	7/5/2016 12:31 PM
Silver	0.23	U	0.074	0.23	0.91	mg/Kg-dry	1	7/5/2016 12:31 PM
Sodium	81		1.8	4.5	45	mg/Kg-dry	1	7/5/2016 12:31 PM
Vanadium	10		0.11	0.91	2.3	mg/Kg-dry	1	7/5/2016 12:31 PM
Zinc	19		0.35	0.45	4.5	mg/Kg-dry	1	7/5/2016 12:31 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.078	J	0.044	0.046	0.18	mg/Kg-dry	10	7/26/2016 4:41 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.022	U	0.013	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
1,2-Dichlorobenzene	0.022	U	0.0097	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
1,3-Dichlorobenzene	0.022	U	0.0093	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
1,4-Dichlorobenzene	0.022	U	0.0072	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
2,4,5-Trichlorophenol	0.045	U	0.022	0.045	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:55:00 AM
Project:	Camp Hero		
Lab ID:	1606512-004	**Matrix:**	Soil
Client Sample ID:	H5-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.045	U	0.025	0.045	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
2,4-Dichlorophenol	0.11	U	0.039	0.11	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
2,4-Dimethyl phenol	0.11	U	0.043	0.11	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
2,4-Dinitrophenol	0.22	U	0.13	0.22	1.1	mg/Kg-dry	1	6/25/2016 9:26 PM
2,4-Dinitrotoluene	0.022	U	0.020	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
2,6-Dinitrotoluene	0.022	U	0.021	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
2-Chloronaphthalene	0.022	U	0.015	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
2-Chlorophenol	0.11	U	0.047	0.11	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
2-Methylphenol (o-Cresol)	0.11	U	0.048	0.11	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
2-Nitroaniline	0.022	U	0.011	0.022	0.43	mg/Kg-dry	1	6/25/2016 9:26 PM
2-Nitrophenol	0.11	U	0.056	0.11	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
3,3´-Dichlorobenzidine	0.90	UQ	0.58	0.90	1.3	mg/Kg-dry	1	6/25/2016 9:26 PM
3-Nitroaniline	0.022	U	0.016	0.022	0.43	mg/Kg-dry	1	6/25/2016 9:26 PM
3/4-Methylphenol [m/p-Cresol]	0.11	U	0.080	0.11	0.43	mg/Kg-dry	1	6/25/2016 9:26 PM
4,6-Dinitro-2-methylphenol	0.11	U	0.065	0.11	0.43	mg/Kg-dry	1	6/25/2016 9:26 PM
4-Bromophenyl phenyl ether	0.11	U	0.057	0.11	0.27	mg/Kg-dry	1	6/25/2016 9:26 PM
4-Chloro-3-methylphenol	0.045	U	0.023	0.045	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
4-Chloroaniline [p-Chloroaniline]	0.11	U	0.034	0.11	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
4-Chlorophenyl phenyl ether	0.022	U	0.014	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
4-Nitroaniline	0.11	U	0.032	0.11	0.43	mg/Kg-dry	1	6/25/2016 9:26 PM
4-Nitrophenol	0.45	UY	0.32	0.45	1.1	mg/Kg-dry	1	6/25/2016 9:26 PM
Benzoic acid	0.45	UYZ	0.18	0.45	1.3	mg/Kg-dry	1	6/25/2016 9:26 PM
Benzyl alcohol	0.022	U	0.011	0.022	0.89	mg/Kg-dry	1	6/25/2016 9:26 PM
Bis(2-chloroethoxy) methane	0.022	U	0.0094	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Bis(2-chloroethyl) ether	0.045	U	0.024	0.045	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Bis(2-chloroisopropyl)ether	0.022	UYZ	0.010	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Bis(2-ethylhexyl) phthalate	0.045	U	0.040	0.045	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Butyl benzyl phthalate	0.045	U	0.027	0.045	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Carbazole	0.022	U	0.015	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Di-n-butyl phthalate	0.045	U	0.024	0.045	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Di-n-octyl phthalate	0.022	U	0.015	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Dibenzofuran	0.022	U	0.011	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Diethyl phthalate	0.022	U	0.016	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Dimethyl phthalate	0.022	U	0.015	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Hexachlorobenzene	0.022	U	0.012	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Hexachlorobutadiene	0.022	U	0.021	0.022	0.067	mg/Kg-dry	1	6/25/2016 9:26 PM
Hexachloroethane	0.022	U	0.010	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Isophorone	0.022	U	0.0093	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
N-Nitroso-di-n-propylamine	0.022	U	0.012	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
N-Nitrosodimethylamine	0.022	UY	0.011	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
N-Nitrosodiphenylamine	0.022	U	0.011	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Nitrobenzene	0.022	U	0.014	0.022	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Pentachlorophenol	0.11	U	0.085	0.11	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Phenol	0.11	U	0.048	0.11	0.22	mg/Kg-dry	1	6/25/2016 9:26 PM
Surr: 2,4,6-Tribromophenol	59.5			39-132		%Rec	1	6/25/2016 9:26 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:55:00 AM
Project:	Camp Hero		
Lab ID:	1606512-004	**Matrix:**	Soil
Client Sample ID:	H5-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	52.4			44-115		%Rec	1	6/25/2016 9:26 PM
Surr: 2-Fluorophenol	49.4			35-115		%Rec	1	6/25/2016 9:26 PM
Surr: Nitrobenzene-d5	54.3			37-122		%Rec	1	6/25/2016 9:26 PM
Surr: Phenol-d5	49.2			33-122		%Rec	1	6/25/2016 9:26 PM
Surr: Terphenyl-d14	56.7			54-127		%Rec	1	6/25/2016 9:26 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
2-Methylnaphthalene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Acenaphthene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Acenaphthylene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Anthracene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Benzo(a)anthracene	0.0012	Y	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Benzo(a)pyrene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Benzo(b)fluoranthene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Benzo(g,h,i)perylene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Benzo(k)fluoranthene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Chrysene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Dibenzo(a,h)anthracene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Fluoranthene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Fluorene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Indeno(1,2,3-cd)pyrene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Naphthalene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Phenanthrene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Pyrene	0.00090	U	0.00090	0.00090	0.00090	mg/Kg-dry	1	7/9/2016 2:44 AM
Surr: 2-Fluorobiphenyl	72.5			46-115		%Rec	1	7/9/2016 2:44 AM
Surr: Nitrobenzene-d5	89.2			44-125		%Rec	1	7/9/2016 2:44 AM
Surr: Terphenyl-d14	130			58-133		%Rec	1	7/9/2016 2:44 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	28		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606512-005	**Matrix:**	Soil
Client Sample ID:	H5-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.024	U	0.011	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:25 AM
Aroclor 1221	0.024	U	0.011	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:25 AM
Aroclor 1232	0.024	U	0.016	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:25 AM
Aroclor 1242	0.024	U	0.014	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:25 AM
Aroclor 1248	0.024	U	0.013	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:25 AM
Aroclor 1254	0.024	U	0.015	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:25 AM
Aroclor 1260	0.024	U	0.011	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:25 AM
Aroclor 1262	0.024	U	0.011	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:25 AM
Aroclor 1268	0.024	U	0.0089	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:25 AM
Surr: Tetrachloro-m-xylene	44.0			44-130		%Rec	1	7/12/2016 1:25 AM
Surr: Decachlorobiphenyl	54.0	Q		60-125		%Rec	1	7/12/2016 1:25 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,100		180	490	1,200	mg/Kg-dry	100	7/5/2016 1:48 PM
Antimony	1.1	J	0.93	1.2	2.5	mg/Kg-dry	1	7/5/2016 12:32 PM
Arsenic	2.7	J	1.8	2.5	4.9	mg/Kg-dry	1	7/5/2016 12:32 PM
Barium	86		0.73	12	25	mg/Kg-dry	1	7/5/2016 12:32 PM
Beryllium	0.43	J	0.031	0.12	0.62	mg/Kg-dry	1	7/5/2016 12:32 PM
Cadmium	0.53	J	0.081	0.12	0.62	mg/Kg-dry	1	7/5/2016 12:32 PM
Calcium	800		7.2	25	120	mg/Kg-dry	1	7/5/2016 12:32 PM
Chromium	5.0		0.20	0.99	1.2	mg/Kg-dry	1	7/5/2016 12:32 PM
Cobalt	0.90	J	0.22	0.62	2.5	mg/Kg-dry	1	7/5/2016 12:32 PM
Copper	18		1.0	2.5	12	mg/Kg-dry	1	7/5/2016 12:32 PM
Iron	2,200		7.7	12	37	mg/Kg-dry	1	7/5/2016 12:32 PM
Lead	27		1.5	2.5	12	mg/Kg-dry	1	7/5/2016 12:32 PM
Magnesium	230		8.6	12	120	mg/Kg-dry	1	7/5/2016 12:32 PM
Manganese	20		0.45	0.62	2.5	mg/Kg-dry	1	7/5/2016 12:32 PM
Nickel	4.3	J	0.70	2.5	12	mg/Kg-dry	1	7/5/2016 12:32 PM
Potassium	260		5.7	25	49	mg/Kg-dry	1	7/5/2016 12:32 PM
Selenium	3.7	U	2.9	3.7	4.9	mg/Kg-dry	1	7/5/2016 12:32 PM
Silver	0.23	J	0.20	0.62	2.5	mg/Kg-dry	1	7/5/2016 12:32 PM
Sodium	220		5.0	12	120	mg/Kg-dry	1	7/5/2016 12:32 PM
Vanadium	9.5		0.31	2.5	6.2	mg/Kg-dry	1	7/5/2016 12:32 PM
Zinc	50		0.95	1.2	12	mg/Kg-dry	1	7/5/2016 12:32 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	U	0.12	0.12	0.49	mg/Kg-dry	10	7/26/2016 4:39 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.89	U	0.50	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
1,2-Dichlorobenzene	0.89	U	0.38	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
1,3-Dichlorobenzene	0.89	U	0.37	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
1,4-Dichlorobenzene	0.89	U	0.28	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
2,4,5-Trichlorophenol	1.8	U	0.88	1.8	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606512-005	**Matrix:**	Soil
Client Sample ID:	H5-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	1.8	U	0.99	1.8	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
2,4-Dichlorophenol	4.4	U	1.5	4.4	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
2,4-Dimethyl phenol	4.4	U	1.7	4.4	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
2,4-Dinitrophenol	8.9	U	5.0	8.9	44	mg/Kg-dry	3	6/25/2016 9:51 PM
2,4-Dinitrotoluene	0.89	U	0.77	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
2,6-Dinitrotoluene	0.89	U	0.84	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
2-Chloronaphthalene	0.89	U	0.59	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
2-Chlorophenol	4.4	U	1.9	4.4	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
2-Methylphenol (o-Cresol)	4.4	U	1.9	4.4	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
2-Nitroaniline	0.89	U	0.43	0.89	17	mg/Kg-dry	3	6/25/2016 9:51 PM
2-Nitrophenol	4.4	U	2.2	4.4	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
3,3´-Dichlorobenzidine	35	UQ	23	35	53	mg/Kg-dry	3	6/25/2016 9:51 PM
3-Nitroaniline	0.89	U	0.62	0.89	17	mg/Kg-dry	3	6/25/2016 9:51 PM
3/4-Methylphenol [m/p-Cresol]	4.4	U	3.2	4.4	17	mg/Kg-dry	3	6/25/2016 9:51 PM
4,6-Dinitro-2-methylphenol	4.4	U	2.5	4.4	17	mg/Kg-dry	3	6/25/2016 9:51 PM
4-Bromophenyl phenyl ether	4.4	U	2.3	4.4	11	mg/Kg-dry	3	6/25/2016 9:51 PM
4-Chloro-3-methylphenol	1.8	U	0.92	1.8	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
4-Chloroaniline [p-Chloroaniline]	4.4	U	1.3	4.4	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
4-Chlorophenyl phenyl ether	0.89	U	0.54	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
4-Nitroaniline	4.4	U	1.3	4.4	17	mg/Kg-dry	3	6/25/2016 9:51 PM
4-Nitrophenol	18	UY	13	18	44	mg/Kg-dry	3	6/25/2016 9:51 PM
Benzoic acid	18	UYZ	7.2	18	53	mg/Kg-dry	3	6/25/2016 9:51 PM
Benzyl alcohol	0.89	U	0.43	0.89	35	mg/Kg-dry	3	6/25/2016 9:51 PM
Bis(2-chloroethoxy) methane	0.89	U	0.37	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Bis(2-chloroethyl) ether	1.8	U	0.95	1.8	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Bis(2-chloroisopropyl)ether	0.89	UYZ	0.40	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Bis(2-ethylhexyl) phthalate	1.8	U	1.6	1.8	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Butyl benzyl phthalate	1.8	U	1.0	1.8	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Carbazole	0.89	U	0.61	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Di-n-butyl phthalate	1.8	U	0.96	1.8	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Di-n-octyl phthalate	0.89	U	0.60	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Dibenzofuran	0.89	U	0.45	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Diethyl phthalate	0.89	U	0.65	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Dimethyl phthalate	0.89	U	0.59	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Hexachlorobenzene	0.89	U	0.48	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Hexachlorobutadiene	0.89	U	0.81	0.89	2.7	mg/Kg-dry	3	6/25/2016 9:51 PM
Hexachloroethane	0.89	U	0.41	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Isophorone	0.89	U	0.37	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
N-Nitroso-di-n-propylamine	0.89	U	0.49	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
N-Nitrosodimethylamine	0.89	UY	0.43	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
N-Nitrosodiphenylamine	0.89	U	0.43	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Nitrobenzene	0.89	U	0.55	0.89	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Pentachlorophenol	4.4	U	3.3	4.4	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Phenol	4.4	U	1.9	4.4	8.5	mg/Kg-dry	3	6/25/2016 9:51 PM
Surr: 2,4,6-Tribromophenol	0	QU		39-132		%Rec	3	6/25/2016 9:51 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606512-005	**Matrix:**	Soil
Client Sample ID:	H5-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	0	QU		44-115		%Rec	3	6/25/2016 9:51 PM
Surr: 2-Fluorophenol	0	QU		35-115		%Rec	3	6/25/2016 9:51 PM
Surr: Nitrobenzene-d5	0	QU		37-122		%Rec	3	6/25/2016 9:51 PM
Surr: Phenol-d5	0	QU		33-122		%Rec	3	6/25/2016 9:51 PM
Surr: Terphenyl-d14	69.0	J		54-127		%Rec	3	6/25/2016 9:51 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0043		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
2-Methylnaphthalene	0.0041		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Acenaphthene	0.0030		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Acenaphthylene	0.0070		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Anthracene	0.0098		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Benzo(a)anthracene	0.047	Y	0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Benzo(a)pyrene	0.037		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Benzo(b)fluoranthene	0.092	Y	0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Benzo(g,h,i)perylene	0.018		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Benzo(k)fluoranthene	0.019	Y	0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Chrysene	0.037		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Dibenzo(a,h)anthracene	0.0028		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Fluoranthene	0.076		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Fluorene	0.0052		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Indeno(1,2,3-cd)pyrene	0.015		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Naphthalene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Phenanthrene	0.0066		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Pyrene	0.097		0.0025	0.0025	0.0025	mg/Kg-dry	1	7/14/2016 6:08 PM
Surr: 2-Fluorobiphenyl	64.8			46-115		%Rec	1	7/14/2016 6:08 PM
Surr: Nitrobenzene-d5	83.9			44-125		%Rec	1	7/14/2016 6:08 PM
Surr: Terphenyl-d14	99.3			58-133		%Rec	1	7/14/2016 6:08 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	73		1.0	1.0	1.0	wt%	1	6/16/2016 2:30 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606512-006	**Matrix:**	Soil
Client Sample ID:	H5-SS02-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.024	U	0.011	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:49 AM
Aroclor 1221	0.024	U	0.011	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:49 AM
Aroclor 1232	0.024	U	0.016	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:49 AM
Aroclor 1242	0.024	U	0.013	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:49 AM
Aroclor 1248	0.024	U	0.013	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:49 AM
Aroclor 1254	0.024	U	0.015	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:49 AM
Aroclor 1260	0.024	U	0.010	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:49 AM
Aroclor 1262	0.024	U	0.010	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:49 AM
Aroclor 1268	0.024	U	0.0087	0.024	0.12	mg/Kg-dry	1	7/12/2016 1:49 AM
Surr: Tetrachloro-m-xylene	24.4	Q		44-130		%Rec	1	7/12/2016 1:49 AM
Surr: Decachlorobiphenyl	28.6	Q		60-125		%Rec	1	7/12/2016 1:49 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,000		180	470	1,200	mg/Kg-dry	100	7/5/2016 1:49 PM
Antimony	23		0.88	1.2	2.4	mg/Kg-dry	1	7/5/2016 12:33 PM
Arsenic	4.2	J	1.7	2.4	4.7	mg/Kg-dry	1	7/5/2016 12:33 PM
Barium	90		0.70	12	24	mg/Kg-dry	1	7/5/2016 12:33 PM
Beryllium	20		0.030	0.12	0.59	mg/Kg-dry	1	7/5/2016 12:33 PM
Cadmium	20		0.078	0.12	0.59	mg/Kg-dry	1	7/5/2016 12:33 PM
Calcium	1,100		6.9	24	120	mg/Kg-dry	1	7/5/2016 12:33 PM
Chromium	26		0.19	0.94	1.2	mg/Kg-dry	1	7/5/2016 12:33 PM
Cobalt	23		0.21	0.59	2.4	mg/Kg-dry	1	7/5/2016 12:33 PM
Copper	41		0.98	2.4	12	mg/Kg-dry	1	7/5/2016 12:33 PM
Iron	1,900		7.3	12	35	mg/Kg-dry	1	7/5/2016 12:33 PM
Lead	37		1.5	2.4	12	mg/Kg-dry	1	7/5/2016 12:33 PM
Magnesium	460		8.2	12	120	mg/Kg-dry	1	7/5/2016 12:33 PM
Manganese	40		0.43	0.59	2.4	mg/Kg-dry	1	7/5/2016 12:33 PM
Nickel	28		0.66	2.4	12	mg/Kg-dry	1	7/5/2016 12:33 PM
Potassium	490		5.5	24	47	mg/Kg-dry	1	7/5/2016 12:33 PM
Selenium	4.8		2.7	3.5	4.7	mg/Kg-dry	1	7/5/2016 12:33 PM
Silver	9.5		0.19	0.59	2.4	mg/Kg-dry	1	7/5/2016 12:33 PM
Sodium	500		4.8	12	120	mg/Kg-dry	1	7/5/2016 12:33 PM
Vanadium	26		0.30	2.4	5.9	mg/Kg-dry	1	7/5/2016 12:33 PM
Zinc	150		0.91	1.2	12	mg/Kg-dry	1	7/5/2016 12:33 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	UG	0.12	0.12	0.48	mg/Kg-dry	10	7/21/2016 2:08 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.18	U	0.10	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
1,2-Dichlorobenzene	0.18	U	0.077	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
1,3-Dichlorobenzene	0.18	U	0.074	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
1,4-Dichlorobenzene	0.18	U	0.057	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
2,4,5-Trichlorophenol	0.36	U	0.18	0.36	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 9:15:00 AM
Project: Camp Hero
Lab ID: 1606512-006 **Matrix:** Soil
Client Sample ID: H5-SS02-01 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.36	U	0.20	0.36	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
2,4-Dichlorophenol	0.89	U	0.31	0.89	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
2,4-Dimethyl phenol	0.89	U	0.34	0.89	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
2,4-Dinitrophenol	1.8	U	1.0	1.8	8.9	mg/Kg-dry	3	6/25/2016 10:15 PM
2,4-Dinitrotoluene	0.18	U	0.16	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
2,6-Dinitrotoluene	0.18	U	0.17	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
2-Chloronaphthalene	0.18	U	0.12	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
2-Chlorophenol	0.89	U	0.37	0.89	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
2-Methylphenol (o-Cresol)	0.89	U	0.38	0.89	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
2-Nitroaniline	0.18	U	0.087	0.18	3.4	mg/Kg-dry	3	6/25/2016 10:15 PM
2-Nitrophenol	0.89	U	0.44	0.89	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
3,3´-Dichlorobenzidine	7.2	UQ	4.6	7.2	11	mg/Kg-dry	3	6/25/2016 10:15 PM
3-Nitroaniline	0.18	U	0.13	0.18	3.4	mg/Kg-dry	3	6/25/2016 10:15 PM
3/4-Methylphenol [m/p-Cresol]	0.89	U	0.64	0.89	3.4	mg/Kg-dry	3	6/25/2016 10:15 PM
4,6-Dinitro-2-methylphenol	0.89	U	0.51	0.89	3.4	mg/Kg-dry	3	6/25/2016 10:15 PM
4-Bromophenyl phenyl ether	0.89	U	0.46	0.89	2.1	mg/Kg-dry	3	6/25/2016 10:15 PM
4-Chloro-3-methylphenol	0.36	U	0.19	0.36	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
4-Chloroaniline [p-Chloroaniline]	0.89	U	0.27	0.89	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
4-Chlorophenyl phenyl ether	0.18	U	0.11	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
4-Nitroaniline	0.89	U	0.26	0.89	3.4	mg/Kg-dry	3	6/25/2016 10:15 PM
4-Nitrophenol	3.6	UY	2.6	3.6	8.9	mg/Kg-dry	3	6/25/2016 10:15 PM
Benzoic acid	3.5	JYZ	1.4	3.6	11	mg/Kg-dry	3	6/25/2016 10:15 PM
Benzyl alcohol	0.18	U	0.086	0.18	7.1	mg/Kg-dry	3	6/25/2016 10:15 PM
Bis(2-chloroethoxy) methane	0.18	U	0.074	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Bis(2-chloroethyl) ether	0.36	U	0.19	0.36	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Bis(2-chloroisopropyl)ether	0.18	UYZ	0.082	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Bis(2-ethylhexyl) phthalate	0.36	U	0.32	0.36	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Butyl benzyl phthalate	0.36	U	0.21	0.36	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Carbazole	0.18	U	0.12	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Di-n-butyl phthalate	0.36	U	0.19	0.36	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Di-n-octyl phthalate	0.18	U	0.12	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Dibenzofuran	0.18	U	0.091	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Diethyl phthalate	0.18	U	0.13	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Dimethyl phthalate	0.18	U	0.12	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Hexachlorobenzene	0.18	U	0.097	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Hexachlorobutadiene	0.18	U	0.16	0.18	0.54	mg/Kg-dry	3	6/25/2016 10:15 PM
Hexachloroethane	0.18	U	0.082	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Isophorone	0.18	U	0.074	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
N-Nitroso-di-n-propylamine	0.18	U	0.099	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
N-Nitrosodimethylamine	0.18	UY	0.087	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
N-Nitrosodiphenylamine	0.18	U	0.087	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Nitrobenzene	0.18	U	0.11	0.18	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Pentachlorophenol	0.89	U	0.67	0.89	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Phenol	0.89	U	0.38	0.89	1.7	mg/Kg-dry	3	6/25/2016 10:15 PM
Surr: 2,4,6-Tribromophenol	53.2	J		39-132		%Rec	3	6/25/2016 10:15 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606512-006	**Matrix:**	Soil
Client Sample ID:	H5-SS02-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	43.3	JQ		44-115		%Rec	3	6/25/2016 10:15 PM
Surr: 2-Fluorophenol	38.8	J		35-115		%Rec	3	6/25/2016 10:15 PM
Surr: Nitrobenzene-d5	42.1	J		37-122		%Rec	3	6/25/2016 10:15 PM
Surr: Phenol-d5	34.1	J		33-122		%Rec	3	6/25/2016 10:15 PM
Surr: Terphenyl-d14	49.1	JQ		54-127		%Rec	3	6/25/2016 10:15 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
2-Methylnaphthalene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Acenaphthene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Acenaphthylene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Anthracene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Benzo(a)anthracene	0.051	Y	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Benzo(a)pyrene	0.042		0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Benzo(b)fluoranthene	0.11	Y	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Benzo(g,h,i)perylene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Benzo(k)fluoranthene	0.036	UY	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Chrysene	0.039		0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Dibenzo(a,h)anthracene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Fluoranthene	0.083		0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Fluorene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Indeno(1,2,3-cd)pyrene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Naphthalene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Phenanthrene	0.059		0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Pyrene	0.10		0.036	0.036	0.036	mg/Kg-dry	3	7/14/2016 6:35 PM
Surr: 2-Fluorobiphenyl	0	QU		46-115		%Rec	3	7/14/2016 6:35 PM
Surr: Nitrobenzene-d5	69.3			44-125		%Rec	3	7/14/2016 6:35 PM
Surr: Terphenyl-d14	73.7			58-133		%Rec	3	7/14/2016 6:35 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	72		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:20:00 AM
Project:	Camp Hero		
Lab ID:	1606512-007	**Matrix:**	Soil
Client Sample ID:	H5-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.010	U	0.0046	0.010	0.050	mg/Kg-dry	1	7/12/2016 2:13 AM
Aroclor 1221	0.010	U	0.0046	0.010	0.050	mg/Kg-dry	1	7/12/2016 2:13 AM
Aroclor 1232	0.010	U	0.0068	0.010	0.050	mg/Kg-dry	1	7/12/2016 2:13 AM
Aroclor 1242	0.010	U	0.0057	0.010	0.050	mg/Kg-dry	1	7/12/2016 2:13 AM
Aroclor 1248	0.010	U	0.0054	0.010	0.050	mg/Kg-dry	1	7/12/2016 2:13 AM
Aroclor 1254	0.010	U	0.0064	0.010	0.050	mg/Kg-dry	1	7/12/2016 2:13 AM
Aroclor 1260	0.010	U	0.0045	0.010	0.050	mg/Kg-dry	1	7/12/2016 2:13 AM
Aroclor 1262	0.010	U	0.0045	0.010	0.050	mg/Kg-dry	1	7/12/2016 2:13 AM
Aroclor 1268	0.010	U	0.0037	0.010	0.050	mg/Kg-dry	1	7/12/2016 2:13 AM
Surr: Tetrachloro-m-xylene	51.8			44-130		%Rec	1	7/12/2016 2:13 AM
Surr: Decachlorobiphenyl	60.8			60-125		%Rec	1	7/12/2016 2:13 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,000		76	200	510	mg/Kg-dry	100	7/5/2016 1:50 PM
Antimony	1.3		0.38	0.51	1.0	mg/Kg-dry	1	7/5/2016 12:35 PM
Arsenic	0.77	J	0.73	1.0	2.0	mg/Kg-dry	1	7/5/2016 12:35 PM
Barium	17		0.30	5.1	10	mg/Kg-dry	1	7/5/2016 12:35 PM
Beryllium	1.3		0.013	0.051	0.25	mg/Kg-dry	1	7/5/2016 12:35 PM
Cadmium	1.1		0.033	0.051	0.25	mg/Kg-dry	1	7/5/2016 12:35 PM
Calcium	240		3.0	10	51	mg/Kg-dry	1	7/5/2016 12:35 PM
Chromium	5.9		0.083	0.40	0.51	mg/Kg-dry	1	7/5/2016 12:35 PM
Cobalt	1.3		0.091	0.25	1.0	mg/Kg-dry	1	7/5/2016 12:35 PM
Copper	12		0.42	1.0	5.1	mg/Kg-dry	1	7/5/2016 12:35 PM
Iron	670		32	51	150	mg/Kg-dry	10	7/5/2016 1:22 PM
Lead	4.3	J	0.63	1.0	5.1	mg/Kg-dry	1	7/5/2016 12:35 PM
Magnesium	160		3.5	5.1	51	mg/Kg-dry	1	7/5/2016 12:35 PM
Manganese	14		0.19	0.25	1.0	mg/Kg-dry	1	7/5/2016 12:35 PM
Nickel	3.0	J	0.29	1.0	5.1	mg/Kg-dry	1	7/5/2016 12:35 PM
Potassium	330		2.4	10	20	mg/Kg-dry	1	7/5/2016 12:35 PM
Selenium	1.5	U	1.2	1.5	2.0	mg/Kg-dry	1	7/5/2016 12:35 PM
Silver	0.67	J	0.083	0.25	1.0	mg/Kg-dry	1	7/5/2016 12:35 PM
Sodium	130		2.1	5.1	51	mg/Kg-dry	1	7/5/2016 12:35 PM
Vanadium	7.5		0.13	1.0	2.5	mg/Kg-dry	1	7/5/2016 12:35 PM
Zinc	18		0.39	0.51	5.1	mg/Kg-dry	1	7/5/2016 12:35 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.068	J	0.050	0.051	0.21	mg/Kg-dry	10	7/21/2016 2:21 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.076	U	0.042	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
1,2-Dichlorobenzene	0.076	U	0.033	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
1,3-Dichlorobenzene	0.076	U	0.031	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
1,4-Dichlorobenzene	0.076	U	0.024	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
2,4,5-Trichlorophenol	0.15	U	0.075	0.15	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 9:20:00 AM
Project: Camp Hero
Lab ID: 1606512-007 **Matrix:** Soil
Client Sample ID: H5-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.15	U	0.085	0.15	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
2,4-Dichlorophenol	0.38	U	0.13	0.38	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
2,4-Dimethyl phenol	0.38	U	0.15	0.38	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
2,4-Dinitrophenol	0.76	U	0.43	0.76	3.8	mg/Kg-dry	3	6/25/2016 10:39 PM
2,4-Dinitrotoluene	0.076	U	0.066	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
2,6-Dinitrotoluene	0.076	U	0.072	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
2-Chloronaphthalene	0.076	U	0.051	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
2-Chlorophenol	0.38	U	0.16	0.38	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
2-Methylphenol (o-Cresol)	0.38	U	0.16	0.38	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
2-Nitroaniline	0.076	U	0.037	0.076	1.5	mg/Kg-dry	3	6/25/2016 10:39 PM
2-Nitrophenol	0.38	U	0.19	0.38	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
3,3´-Dichlorobenzidine	3.0	UQ	1.9	3.0	4.6	mg/Kg-dry	3	6/25/2016 10:39 PM
3-Nitroaniline	0.076	U	0.053	0.076	1.5	mg/Kg-dry	3	6/25/2016 10:39 PM
3/4-Methylphenol [m/p-Cresol]	0.38	U	0.27	0.38	1.5	mg/Kg-dry	3	6/25/2016 10:39 PM
4,6-Dinitro-2-methylphenol	0.38	U	0.22	0.38	1.5	mg/Kg-dry	3	6/25/2016 10:39 PM
4-Bromophenyl phenyl ether	0.38	U	0.19	0.38	0.91	mg/Kg-dry	3	6/25/2016 10:39 PM
4-Chloro-3-methylphenol	0.15	U	0.079	0.15	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
4-Chloroaniline [p-Chloroaniline]	0.38	U	0.11	0.38	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
4-Chlorophenyl phenyl ether	0.076	U	0.046	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
4-Nitroaniline	0.38	U	0.11	0.38	1.5	mg/Kg-dry	3	6/25/2016 10:39 PM
4-Nitrophenol	1.5	UY	1.1	1.5	3.8	mg/Kg-dry	3	6/25/2016 10:39 PM
Benzoic acid	1.5	UYZ	0.61	1.5	4.6	mg/Kg-dry	3	6/25/2016 10:39 PM
Benzyl alcohol	0.076	U	0.037	0.076	3.0	mg/Kg-dry	3	6/25/2016 10:39 PM
Bis(2-chloroethoxy) methane	0.076	U	0.032	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Bis(2-chloroethyl) ether	0.15	U	0.082	0.15	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Bis(2-chloroisopropyl)ether	0.076	UYZ	0.035	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Bis(2-ethylhexyl) phthalate	0.15	U	0.13	0.15	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Butyl benzyl phthalate	0.15	U	0.090	0.15	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Carbazole	0.076	U	0.052	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Di-n-butyl phthalate	0.15	U	0.082	0.15	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Di-n-octyl phthalate	0.076	U	0.052	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Dibenzofuran	0.076	U	0.039	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Diethyl phthalate	0.076	U	0.056	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Dimethyl phthalate	0.076	U	0.051	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Hexachlorobenzene	0.076	U	0.041	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Hexachlorobutadiene	0.076	U	0.069	0.076	0.23	mg/Kg-dry	3	6/25/2016 10:39 PM
Hexachloroethane	0.076	U	0.035	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Isophorone	0.076	U	0.031	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
N-Nitroso-di-n-propylamine	0.076	U	0.042	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
N-Nitrosodimethylamine	0.076	UY	0.037	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
N-Nitrosodiphenylamine	0.076	U	0.037	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Nitrobenzene	0.076	U	0.047	0.076	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Pentachlorophenol	0.38	U	0.29	0.38	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Phenol	0.38	U	0.16	0.38	0.73	mg/Kg-dry	3	6/25/2016 10:39 PM
Surr: 2,4,6-Tribromophenol	40.6	J		39-132		%Rec	3	6/25/2016 10:39 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:20:00 AM
Project:	Camp Hero		
Lab ID:	1606512-007	**Matrix:**	Soil
Client Sample ID:	H5-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	34.6	JQ		44-115		%Rec	3	6/25/2016 10:39 PM
Surr: 2-Fluorophenol	32.8	JQ		35-115		%Rec	3	6/25/2016 10:39 PM
Surr: Nitrobenzene-d5	36.1	JQ		37-122		%Rec	3	6/25/2016 10:39 PM
Surr: Phenol-d5	0	QU		33-122		%Rec	3	6/25/2016 10:39 PM
Surr: Terphenyl-d14	36.6	JQ		54-127		%Rec	3	6/25/2016 10:39 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0010	U	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
2-Methylnaphthalene	0.0010	U	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Acenaphthene	0.0010	U	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Acenaphthylene	0.0010	U	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Anthracene	0.0016		0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Benzo(a)anthracene	0.0010	UY	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Benzo(a)pyrene	0.0013		0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Benzo(b)fluoranthene	0.0020	Y	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Benzo(g,h,i)perylene	0.0010	U	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Benzo(k)fluoranthene	0.0010	UY	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Chrysene	0.0010		0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Dibenzo(a,h)anthracene	0.0010	U	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Fluoranthene	0.0010	U	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Fluorene	0.0010	U	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Indeno(1,2,3-cd)pyrene	0.0010	U	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Naphthalene	0.0010	U	0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Phenanthrene	0.0016		0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Pyrene	0.0018		0.0010	0.0010	0.0010	mg/Kg-dry	1	7/14/2016 7:02 PM
Surr: 2-Fluorobiphenyl	52.8			46-115		%Rec	1	7/14/2016 7:02 PM
Surr: Nitrobenzene-d5	61.4			44-125		%Rec	1	7/14/2016 7:02 PM
Surr: Terphenyl-d14	87.5			58-133		%Rec	1	7/14/2016 7:02 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	35		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:35:00 AM
Project:	Camp Hero		
Lab ID:	1606512-008	**Matrix:**	Soil
Client Sample ID:	H5-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.028	U	0.013	0.028	0.14	mg/Kg-dry	1	7/12/2016 2:38 AM
Aroclor 1221	0.028	U	0.013	0.028	0.14	mg/Kg-dry	1	7/12/2016 2:38 AM
Aroclor 1232	0.028	U	0.019	0.028	0.14	mg/Kg-dry	1	7/12/2016 2:38 AM
Aroclor 1242	0.028	U	0.016	0.028	0.14	mg/Kg-dry	1	7/12/2016 2:38 AM
Aroclor 1248	0.028	U	0.015	0.028	0.14	mg/Kg-dry	1	7/12/2016 2:38 AM
Aroclor 1254	0.028	U	0.018	0.028	0.14	mg/Kg-dry	1	7/12/2016 2:38 AM
Aroclor 1260	0.028	U	0.012	0.028	0.14	mg/Kg-dry	1	7/12/2016 2:38 AM
Aroclor 1262	0.028	U	0.012	0.028	0.14	mg/Kg-dry	1	7/12/2016 2:38 AM
Aroclor 1268	0.028	U	0.010	0.028	0.14	mg/Kg-dry	1	7/12/2016 2:38 AM
Surr: Tetrachloro-m-xylene	18.5	Q		44-130		%Rec	1	7/12/2016 2:38 AM
Surr: Decachlorobiphenyl	20.6	Q		60-125		%Rec	1	7/12/2016 2:38 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	18		1.8	2.8	14	mg/Kg-dry	1	6/30/2016 12:37 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	76		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606512-009	**Matrix:**	Soil
Client Sample ID:	H5-SS03-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.027	U	0.012	0.027	0.13	mg/Kg-dry	1	7/12/2016 3:02 AM
Aroclor 1221	0.027	U	0.012	0.027	0.13	mg/Kg-dry	1	7/12/2016 3:02 AM
Aroclor 1232	0.027	U	0.018	0.027	0.13	mg/Kg-dry	1	7/12/2016 3:02 AM
Aroclor 1242	0.027	U	0.015	0.027	0.13	mg/Kg-dry	1	7/12/2016 3:02 AM
Aroclor 1248	0.027	U	0.014	0.027	0.13	mg/Kg-dry	1	7/12/2016 3:02 AM
Aroclor 1254	0.027	U	0.017	0.027	0.13	mg/Kg-dry	1	7/12/2016 3:02 AM
Aroclor 1260	0.027	U	0.012	0.027	0.13	mg/Kg-dry	1	7/12/2016 3:02 AM
Aroclor 1262	0.027	U	0.012	0.027	0.13	mg/Kg-dry	1	7/12/2016 3:02 AM
Aroclor 1268	0.027	U	0.0098	0.027	0.13	mg/Kg-dry	1	7/12/2016 3:02 AM
Surr: Tetrachloro-m-xylene	29.5	Q		44-130		%Rec	1	7/12/2016 3:02 AM
Surr: Decachlorobiphenyl	31.3	Q		60-125		%Rec	1	7/12/2016 3:02 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	44		1.6	2.6	13	mg/Kg-dry	1	6/30/2016 12:39 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	75		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606512-010	**Matrix:**	Soil
Client Sample ID:	H5-SS04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.041	U	0.019	0.041	0.21	mg/Kg-dry	1	7/12/2016 3:26 AM
Aroclor 1221	0.041	U	0.019	0.041	0.21	mg/Kg-dry	1	7/12/2016 3:26 AM
Aroclor 1232	0.041	U	0.028	0.041	0.21	mg/Kg-dry	1	7/12/2016 3:26 AM
Aroclor 1242	0.041	U	0.023	0.041	0.21	mg/Kg-dry	1	7/12/2016 3:26 AM
Aroclor 1248	0.041	U	0.022	0.041	0.21	mg/Kg-dry	1	7/12/2016 3:26 AM
Aroclor 1254	0.041	U	0.026	0.041	0.21	mg/Kg-dry	1	7/12/2016 3:26 AM
Aroclor 1260	0.041	U	0.018	0.041	0.21	mg/Kg-dry	1	7/12/2016 3:26 AM
Aroclor 1262	0.041	U	0.018	0.041	0.21	mg/Kg-dry	1	7/12/2016 3:26 AM
Aroclor 1268	0.041	U	0.015	0.041	0.21	mg/Kg-dry	1	7/12/2016 3:26 AM
Surr: Tetrachloro-m-xylene	83.2			44-130		%Rec	1	7/12/2016 3:26 AM
Surr: Decachlorobiphenyl	74.7			60-125		%Rec	1	7/12/2016 3:26 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	7.7	J	2.6	4.2	21	mg/Kg-dry	1	6/30/2016 12:40 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	84		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:10:00 AM
Project:	Camp Hero		
Lab ID:	1606512-011	**Matrix:**	Soil
Client Sample ID:	H5-SS04-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.015	U	0.0068	0.015	0.075	mg/Kg-dry	1	7/12/2016 3:51 AM
Aroclor 1221	0.015	U	0.0068	0.015	0.075	mg/Kg-dry	1	7/12/2016 3:51 AM
Aroclor 1232	0.015	U	0.010	0.015	0.075	mg/Kg-dry	1	7/12/2016 3:51 AM
Aroclor 1242	0.015	U	0.0085	0.015	0.075	mg/Kg-dry	1	7/12/2016 3:51 AM
Aroclor 1248	0.015	U	0.0080	0.015	0.075	mg/Kg-dry	1	7/12/2016 3:51 AM
Aroclor 1254	0.015	U	0.0096	0.015	0.075	mg/Kg-dry	1	7/12/2016 3:51 AM
Aroclor 1260	0.015	U	0.0066	0.015	0.075	mg/Kg-dry	1	7/12/2016 3:51 AM
Aroclor 1262	0.015	U	0.0066	0.015	0.075	mg/Kg-dry	1	7/12/2016 3:51 AM
Aroclor 1268	0.015	U	0.0055	0.015	0.075	mg/Kg-dry	1	7/12/2016 3:51 AM
Surr: Tetrachloro-m-xylene	42.5	Q		44-130		%Rec	1	7/12/2016 3:51 AM
Surr: Decachlorobiphenyl	45.4	Q		60-125		%Rec	1	7/12/2016 3:51 AM
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	5.0	J	0.93	1.5	7.5	mg/Kg-dry	1	6/30/2016 12:41 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	57		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 1:20:00 PM
Project: Camp Hero
Lab ID: 1606512-012 **Matrix:** Soil
Client Sample ID: WDS-SB08-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0086	U	0.0039	0.0086	0.043	mg/Kg-dry	1	7/12/2016 7:49 PM
Aroclor 1221	0.0086	U	0.0039	0.0086	0.043	mg/Kg-dry	1	7/12/2016 7:49 PM
Aroclor 1232	0.0086	U	0.0058	0.0086	0.043	mg/Kg-dry	1	7/12/2016 7:49 PM
Aroclor 1242	0.0086	U	0.0048	0.0086	0.043	mg/Kg-dry	1	7/12/2016 7:49 PM
Aroclor 1248	0.0086	U	0.0046	0.0086	0.043	mg/Kg-dry	1	7/12/2016 7:49 PM
Aroclor 1254	0.0086	U	0.0055	0.0086	0.043	mg/Kg-dry	1	7/12/2016 7:49 PM
Aroclor 1260	0.0086	U	0.0038	0.0086	0.043	mg/Kg-dry	1	7/12/2016 7:49 PM
Aroclor 1262	0.0086	U	0.0038	0.0086	0.043	mg/Kg-dry	1	7/12/2016 7:49 PM
Aroclor 1268	0.0086	U	0.0032	0.0086	0.043	mg/Kg-dry	1	7/12/2016 7:49 PM
Surr: Tetrachloro-m-xylene	95.4			44-130		%Rec	1	7/12/2016 7:49 PM
Surr: Decachlorobiphenyl	107			60-125		%Rec	1	7/12/2016 7:49 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	13,000		65	170	430	mg/Kg-dry	100	7/5/2016 1:52 PM
Antimony	2.0		0.33	0.43	0.87	mg/Kg-dry	1	7/5/2016 12:36 PM
Arsenic	1.7	J	0.63	0.87	1.7	mg/Kg-dry	1	7/5/2016 12:36 PM
Barium	21		0.26	4.3	8.7	mg/Kg-dry	1	7/5/2016 12:36 PM
Beryllium	0.080	J	0.011	0.043	0.22	mg/Kg-dry	1	7/5/2016 12:36 PM
Cadmium	0.071	J	0.029	0.043	0.22	mg/Kg-dry	1	7/5/2016 12:36 PM
Calcium	2,600		25	87	430	mg/Kg-dry	10	7/5/2016 1:23 PM
Chromium	12		0.071	0.35	0.43	mg/Kg-dry	1	7/5/2016 12:36 PM
Cobalt	1.9		0.078	0.22	0.87	mg/Kg-dry	1	7/5/2016 12:36 PM
Copper	28		0.36	0.87	4.3	mg/Kg-dry	1	7/5/2016 12:36 PM
Iron	12,000		27	43	130	mg/Kg-dry	10	7/5/2016 1:23 PM
Lead	7.7		0.54	0.87	4.3	mg/Kg-dry	1	7/5/2016 12:36 PM
Magnesium	910		3.0	4.3	43	mg/Kg-dry	1	7/5/2016 12:36 PM
Manganese	120		0.16	0.22	0.87	mg/Kg-dry	1	7/5/2016 12:36 PM
Nickel	4.0	J	0.24	0.87	4.3	mg/Kg-dry	1	7/5/2016 12:36 PM
Potassium	440		2.0	8.7	17	mg/Kg-dry	1	7/5/2016 12:36 PM
Selenium	1.3	U	1.0	1.3	1.7	mg/Kg-dry	1	7/5/2016 12:36 PM
Silver	0.22	U	0.071	0.22	0.87	mg/Kg-dry	1	7/5/2016 12:36 PM
Sodium	59		1.8	4.3	43	mg/Kg-dry	1	7/5/2016 12:36 PM
Vanadium	22		0.11	0.87	2.2	mg/Kg-dry	1	7/5/2016 12:36 PM
Zinc	17		0.34	0.43	4.3	mg/Kg-dry	1	7/5/2016 12:36 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.10	JG	0.042	0.044	0.17	mg/Kg-dry	10	7/21/2016 2:09 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
1,2-Dichlorobenzene	0.022	U	0.0094	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
1,3-Dichlorobenzene	0.022	U	0.0090	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
1,4-Dichlorobenzene	0.022	U	0.0069	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
2,4,5-Trichlorophenol	0.043	U	0.021	0.043	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 1:20:00 PM
Project: Camp Hero
Lab ID: 1606512-012 **Matrix:** Soil
Client Sample ID: WDS-SB08-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.043	U	0.024	0.043	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
2,4-Dichlorophenol	0.11	U	0.037	0.11	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
2,4-Dimethyl phenol	0.11	U	0.041	0.11	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
2,4-Dinitrophenol	0.22	U	0.12	0.22	1.1	mg/Kg-dry	1	6/25/2016 11:04 PM
2,4-Dinitrotoluene	0.022	U	0.019	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
2,6-Dinitrotoluene	0.022	U	0.021	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
2-Chloronaphthalene	0.022	U	0.014	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
2-Chlorophenol	0.11	U	0.045	0.11	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
2-Methylphenol (o-Cresol)	0.11	U	0.047	0.11	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
2-Nitroaniline	0.022	U	0.011	0.022	0.42	mg/Kg-dry	1	6/25/2016 11:04 PM
2-Nitrophenol	0.11	U	0.054	0.11	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
3,3´-Dichlorobenzidine	0.87	UQ	0.55	0.87	1.3	mg/Kg-dry	1	6/25/2016 11:04 PM
3-Nitroaniline	0.022	U	0.015	0.022	0.42	mg/Kg-dry	1	6/25/2016 11:04 PM
3/4-Methylphenol [m/p-Cresol]	0.11	U	0.077	0.11	0.42	mg/Kg-dry	1	6/25/2016 11:04 PM
4,6-Dinitro-2-methylphenol	0.11	U	0.062	0.11	0.42	mg/Kg-dry	1	6/25/2016 11:04 PM
4-Bromophenyl phenyl ether	0.11	U	0.055	0.11	0.26	mg/Kg-dry	1	6/25/2016 11:04 PM
4-Chloro-3-methylphenol	0.043	U	0.023	0.043	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
4-Chloroaniline [p-Chloroaniline]	0.11	U	0.033	0.11	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
4-Chlorophenyl phenyl ether	0.022	U	0.013	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
4-Nitroaniline	0.11	U	0.031	0.11	0.42	mg/Kg-dry	1	6/25/2016 11:04 PM
4-Nitrophenol	0.43	UY	0.31	0.43	1.1	mg/Kg-dry	1	6/25/2016 11:04 PM
Benzoic acid	0.43	UYZ	0.18	0.43	1.3	mg/Kg-dry	1	6/25/2016 11:04 PM
Benzyl alcohol	0.022	U	0.010	0.022	0.86	mg/Kg-dry	1	6/25/2016 11:04 PM
Bis(2-chloroethoxy) methane	0.022	U	0.0090	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Bis(2-chloroethyl) ether	0.043	U	0.023	0.043	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Bis(2-chloroisopropyl)ether	0.022	UYZ	0.0099	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Bis(2-ethylhexyl) phthalate	0.043	U	0.038	0.043	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Butyl benzyl phthalate	0.043	U	0.026	0.043	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Carbazole	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Di-n-butyl phthalate	0.043	U	0.023	0.043	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Di-n-octyl phthalate	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Dibenzofuran	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Diethyl phthalate	0.022	U	0.016	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Dimethyl phthalate	0.022	U	0.014	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Hexachlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Hexachlorobutadiene	0.022	U	0.020	0.022	0.065	mg/Kg-dry	1	6/25/2016 11:04 PM
Hexachloroethane	0.022	U	0.010	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Isophorone	0.022	U	0.0090	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
N-Nitroso-di-n-propylamine	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
N-Nitrosodimethylamine	0.022	UY	0.011	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
N-Nitrosodiphenylamine	0.022	U	0.010	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Nitrobenzene	0.022	U	0.013	0.022	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Pentachlorophenol	0.11	U	0.081	0.11	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Phenol	0.11	U	0.046	0.11	0.21	mg/Kg-dry	1	6/25/2016 11:04 PM
Surr: 2,4,6-Tribromophenol	61.7			39-132		%Rec	1	6/25/2016 11:04 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 1:20:00 PM
Project:	Camp Hero		
Lab ID:	1606512-012	**Matrix:**	Soil
Client Sample ID:	WDS-SB08-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	51.6			44-115		%Rec	1	6/25/2016 11:04 PM
Surr: 2-Fluorophenol	53.3			35-115		%Rec	1	6/25/2016 11:04 PM
Surr: Nitrobenzene-d5	53.8			37-122		%Rec	1	6/25/2016 11:04 PM
Surr: Phenol-d5	50.1			33-122		%Rec	1	6/25/2016 11:04 PM
Surr: Terphenyl-d14	57.4			54-127		%Rec	1	6/25/2016 11:04 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00088	U	0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
2-Methylnaphthalene	0.0027		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Acenaphthene	0.0045		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Acenaphthylene	0.0050		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Anthracene	0.043		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Benzo(a)anthracene	0.025	H	0.0026	0.0026	0.0026	mg/Kg-dry	3	8/4/2016 2:43 PM
Benzo(a)pyrene	0.041		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Benzo(b)fluoranthene	0.031	H	0.0026	0.0026	0.0026	mg/Kg-dry	3	8/4/2016 2:43 PM
Benzo(g,h,i)perylene	0.020		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Benzo(k)fluoranthene	0.025		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Chrysene	0.024	H	0.0026	0.0026	0.0026	mg/Kg-dry	3	8/4/2016 2:43 PM
Dibenzo(a,h)anthracene	0.0012		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Fluoranthene	0.048	H	0.0026	0.0026	0.0026	mg/Kg-dry	3	8/4/2016 2:43 PM
Fluorene	0.0048		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Indeno(1,2,3-cd)pyrene	0.019		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Naphthalene	0.0028		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Phenanthrene	0.042		0.00088	0.00088	0.00088	mg/Kg-dry	1	7/21/2016 1:52 PM
Pyrene	0.043	H	0.0026	0.0026	0.0026	mg/Kg-dry	3	8/4/2016 2:43 PM
Surr: 2-Fluorobiphenyl	93.3			46-115		%Rec	1	7/21/2016 1:52 PM
Surr: Nitrobenzene-d5	103			44-125		%Rec	1	7/21/2016 1:52 PM
Surr: Terphenyl-d14	105			58-133		%Rec	1	7/21/2016 1:52 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	24		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 1:05:00 PM
Project:	Camp Hero		
Lab ID:	1606512-013	**Matrix:**	Soil
Client Sample ID:	WDS-SB09-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0074	U	0.0033	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:03 PM
Aroclor 1221	0.0074	U	0.0033	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:03 PM
Aroclor 1232	0.0074	U	0.0050	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:03 PM
Aroclor 1242	0.0074	U	0.0041	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:03 PM
Aroclor 1248	0.0074	U	0.0039	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:03 PM
Aroclor 1254	0.0074	U	0.0047	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:03 PM
Aroclor 1260	0.0074	U	0.0032	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:03 PM
Aroclor 1262	0.0074	U	0.0032	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:03 PM
Aroclor 1268	0.0074	U	0.0027	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:03 PM
Surr: Tetrachloro-m-xylene	97.2			44-130		%Rec	1	7/12/2016 9:03 PM
Surr: Decachlorobiphenyl	109			60-125		%Rec	1	7/12/2016 9:03 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	11,000		55	150	370	mg/Kg-dry	100	7/5/2016 1:53 PM
Antimony	2.7		0.28	0.37	0.73	mg/Kg-dry	1	7/5/2016 12:37 PM
Arsenic	0.69	J	0.53	0.73	1.5	mg/Kg-dry	1	7/5/2016 12:37 PM
Barium	29		0.22	3.7	7.3	mg/Kg-dry	1	7/5/2016 12:37 PM
Beryllium	0.15	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/5/2016 12:37 PM
Cadmium	0.037	U	0.024	0.037	0.18	mg/Kg-dry	1	7/5/2016 12:37 PM
Calcium	1,000		2.2	7.3	37	mg/Kg-dry	1	7/5/2016 12:37 PM
Chromium	15		0.060	0.29	0.37	mg/Kg-dry	1	7/5/2016 12:37 PM
Cobalt	2.7		0.066	0.18	0.73	mg/Kg-dry	1	7/5/2016 12:37 PM
Copper	24		0.31	0.73	3.7	mg/Kg-dry	1	7/5/2016 12:37 PM
Iron	8,200		23	37	110	mg/Kg-dry	10	7/5/2016 1:25 PM
Lead	2.9	J	0.46	0.73	3.7	mg/Kg-dry	1	7/5/2016 12:37 PM
Magnesium	2,100		26	37	370	mg/Kg-dry	10	7/5/2016 1:25 PM
Manganese	110		0.14	0.18	0.73	mg/Kg-dry	1	7/5/2016 12:37 PM
Nickel	7.5		0.21	0.73	3.7	mg/Kg-dry	1	7/5/2016 12:37 PM
Potassium	1,100		1.7	7.3	15	mg/Kg-dry	1	7/5/2016 12:37 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/5/2016 12:37 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/5/2016 12:37 PM
Sodium	100		1.5	3.7	37	mg/Kg-dry	1	7/5/2016 12:37 PM
Vanadium	17		0.093	0.73	1.8	mg/Kg-dry	1	7/5/2016 12:37 PM
Zinc	17		0.28	0.37	3.7	mg/Kg-dry	1	7/5/2016 12:37 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.091	J	0.037	0.038	0.15	mg/Kg-dry	10	7/26/2016 4:38 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
1,2-Dichlorobenzene	0.019	U	0.0082	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
1,3-Dichlorobenzene	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
1,4-Dichlorobenzene	0.019	U	0.0060	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 1:05:00 PM
Project: Camp Hero
Lab ID: 1606512-013 **Matrix:** Soil
Client Sample ID: WDS-SB09-06

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
2,4-Dichlorophenol	0.094	U	0.032	0.094	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
2,4-Dimethyl phenol	0.094	U	0.036	0.094	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
2,4-Dinitrophenol	0.19	U	0.11	0.19	0.94	mg/Kg-dry	1	6/25/2016 11:29 PM
2,4-Dinitrotoluene	0.019	U	0.016	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
2-Chlorophenol	0.094	U	0.039	0.094	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
2-Methylphenol (o-Cresol)	0.094	U	0.041	0.094	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
2-Nitroaniline	0.019	U	0.0092	0.019	0.36	mg/Kg-dry	1	6/25/2016 11:29 PM
2-Nitrophenol	0.094	U	0.047	0.094	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
3,3´-Dichlorobenzidine	0.76	UQ	0.48	0.76	1.1	mg/Kg-dry	1	6/25/2016 11:29 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.36	mg/Kg-dry	1	6/25/2016 11:29 PM
3/4-Methylphenol [m/p-Cresol]	0.094	U	0.067	0.094	0.36	mg/Kg-dry	1	6/25/2016 11:29 PM
4,6-Dinitro-2-methylphenol	0.094	U	0.054	0.094	0.36	mg/Kg-dry	1	6/25/2016 11:29 PM
4-Bromophenyl phenyl ether	0.094	U	0.048	0.094	0.23	mg/Kg-dry	1	6/25/2016 11:29 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
4-Chloroaniline [p-Chloroaniline]	0.094	U	0.028	0.094	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
4-Nitroaniline	0.094	U	0.027	0.094	0.36	mg/Kg-dry	1	6/25/2016 11:29 PM
4-Nitrophenol	0.38	UY	0.27	0.38	0.94	mg/Kg-dry	1	6/25/2016 11:29 PM
Benzoic acid	0.38	UYZ	0.15	0.38	1.1	mg/Kg-dry	1	6/25/2016 11:29 PM
Benzyl alcohol	0.019	U	0.0091	0.019	0.75	mg/Kg-dry	1	6/25/2016 11:29 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0086	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.033	0.038	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Butyl benzyl phthalate	0.038	U	0.022	0.038	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Carbazole	0.028	J	0.013	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Di-n-butyl phthalate	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Dibenzofuran	0.027	J	0.0096	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.057	mg/Kg-dry	1	6/25/2016 11:29 PM
Hexachloroethane	0.019	U	0.0087	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Isophorone	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
N-Nitroso-di-n-propylamine	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
N-Nitrosodimethylamine	0.019	UY	0.0092	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
N-Nitrosodiphenylamine	0.019	U	0.0091	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Pentachlorophenol	0.094	U	0.071	0.094	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Phenol	0.094	U	0.040	0.094	0.18	mg/Kg-dry	1	6/25/2016 11:29 PM
Surr: 2,4,6-Tribromophenol	93.1			39-132		%Rec	1	6/25/2016 11:29 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 1:05:00 PM
Project:	Camp Hero		
Lab ID:	1606512-013	**Matrix:**	Soil
Client Sample ID:	WDS-SB09-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	79.9			44-115		%Rec	1	6/25/2016 11:29 PM
Surr: 2-Fluorophenol	78.2			35-115		%Rec	1	6/25/2016 11:29 PM
Surr: Nitrobenzene-d5	83.0			37-122		%Rec	1	6/25/2016 11:29 PM
Surr: Phenol-d5	77.7			33-122		%Rec	1	6/25/2016 11:29 PM
Surr: Terphenyl-d14	88.9			54-127		%Rec	1	6/25/2016 11:29 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0077		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/21/2016 2:50 PM
2-Methylnaphthalene	0.0081		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/21/2016 2:50 PM
Acenaphthene	0.035		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Acenaphthylene	0.0021		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/21/2016 2:50 PM
Anthracene	0.12		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Benzo(a)anthracene	0.19		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Benzo(a)pyrene	0.14		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Benzo(b)fluoranthene	0.21		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Benzo(g,h,i)perylene	0.038		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Benzo(k)fluoranthene	0.064		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Chrysene	0.14		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Dibenzo(a,h)anthracene	0.038		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/21/2016 2:50 PM
Fluoranthene	0.42		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Fluorene	0.048		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Indeno(1,2,3-cd)pyrene	0.052		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Naphthalene	0.0088		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/21/2016 2:50 PM
Phenanthrene	0.31		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Pyrene	0.32		0.015	0.015	0.015	mg/Kg-dry	20	7/28/2016 4:13 PM
Surr: 2-Fluorobiphenyl	94.6			46-115		%Rec	1	7/21/2016 2:50 PM
Surr: Nitrobenzene-d5	105			44-125		%Rec	1	7/21/2016 2:50 PM
Surr: Terphenyl-d14	110			58-133		%Rec	1	7/21/2016 2:50 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:40:00 AM
Project:	Camp Hero		
Lab ID:	1606512-014	**Matrix:**	Soil
Client Sample ID:	WDS-SB11-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/12/2016 9:27 PM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/12/2016 9:27 PM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/12/2016 9:27 PM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	7/12/2016 9:27 PM
Aroclor 1248	0.0073	U	0.0038	0.0073	0.036	mg/Kg-dry	1	7/12/2016 9:27 PM
Aroclor 1254	0.0073	U	0.0046	0.0073	0.036	mg/Kg-dry	1	7/12/2016 9:27 PM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/12/2016 9:27 PM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/12/2016 9:27 PM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/12/2016 9:27 PM
Surr: Tetrachloro-m-xylene	87.9			44-130		%Rec	1	7/12/2016 9:27 PM
Surr: Decachlorobiphenyl	104			60-125		%Rec	1	7/12/2016 9:27 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	13,000		54	140	360	mg/Kg-dry	100	7/5/2016 1:54 PM
Antimony	2.9		0.27	0.36	0.72	mg/Kg-dry	1	7/5/2016 12:39 PM
Arsenic	1.7		0.52	0.72	1.4	mg/Kg-dry	1	7/5/2016 12:39 PM
Barium	28		0.21	3.6	7.2	mg/Kg-dry	1	7/5/2016 12:39 PM
Beryllium	0.071	J	0.0091	0.036	0.18	mg/Kg-dry	1	7/5/2016 12:39 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/5/2016 12:39 PM
Calcium	750		2.1	7.2	36	mg/Kg-dry	1	7/5/2016 12:39 PM
Chromium	15		0.059	0.29	0.36	mg/Kg-dry	1	7/5/2016 12:39 PM
Cobalt	2.9		0.065	0.18	0.72	mg/Kg-dry	1	7/5/2016 12:39 PM
Copper	22		0.30	0.72	3.6	mg/Kg-dry	1	7/5/2016 12:39 PM
Iron	7,000		23	36	110	mg/Kg-dry	10	7/5/2016 1:26 PM
Lead	3.6		0.45	0.72	3.6	mg/Kg-dry	1	7/5/2016 12:39 PM
Magnesium	2,300		25	36	360	mg/Kg-dry	10	7/5/2016 1:26 PM
Manganese	120		0.13	0.18	0.72	mg/Kg-dry	1	7/5/2016 12:39 PM
Nickel	9.3		0.20	0.72	3.6	mg/Kg-dry	1	7/5/2016 12:39 PM
Potassium	1,200		1.7	7.2	14	mg/Kg-dry	1	7/5/2016 12:39 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/5/2016 12:39 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/5/2016 12:39 PM
Sodium	100		1.5	3.6	36	mg/Kg-dry	1	7/5/2016 12:39 PM
Vanadium	18		0.091	0.72	1.8	mg/Kg-dry	1	7/5/2016 12:39 PM
Zinc	21		0.28	0.36	3.6	mg/Kg-dry	1	7/5/2016 12:39 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.10	JG	0.036	0.037	0.15	mg/Kg-dry	10	7/21/2016 2:11 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM

RTI Laboratories - Analytical Report

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 10:40:00 AM
Project: Camp Hero
Lab ID: 1606512-014 **Matrix:** Soil
Client Sample ID: WDS-SB11-08

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
2,4-Dichlorophenol	0.091	U	0.031	0.091	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
2,4-Dimethyl phenol	0.091	U	0.035	0.091	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.90	mg/Kg-dry	1	6/25/2016 11:53 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
2-Chlorophenol	0.091	U	0.038	0.091	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
2-Methylphenol (o-Cresol)	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
2-Nitroaniline	0.018	U	0.0088	0.018	0.35	mg/Kg-dry	1	6/25/2016 11:53 PM
2-Nitrophenol	0.091	U	0.045	0.091	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
3,3´-Dichlorobenzidine	0.72	UQ	0.46	0.72	1.1	mg/Kg-dry	1	6/25/2016 11:53 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/25/2016 11:53 PM
3/4-Methylphenol [m/p-Cresol]	0.091	U	0.065	0.091	0.35	mg/Kg-dry	1	6/25/2016 11:53 PM
4,6-Dinitro-2-methylphenol	0.091	U	0.052	0.091	0.35	mg/Kg-dry	1	6/25/2016 11:53 PM
4-Bromophenyl phenyl ether	0.091	U	0.046	0.091	0.22	mg/Kg-dry	1	6/25/2016 11:53 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
4-Chloroaniline [p-Chloroaniline]	0.091	U	0.027	0.091	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
4-Nitroaniline	0.091	U	0.026	0.091	0.35	mg/Kg-dry	1	6/25/2016 11:53 PM
4-Nitrophenol	0.36	UY	0.26	0.36	0.90	mg/Kg-dry	1	6/25/2016 11:53 PM
Benzoic acid	0.36	UYZ	0.15	0.36	1.1	mg/Kg-dry	1	6/25/2016 11:53 PM
Benzyl alcohol	0.018	U	0.0087	0.018	0.72	mg/Kg-dry	1	6/25/2016 11:53 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0083	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Di-n-butyl phthalate	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.054	mg/Kg-dry	1	6/25/2016 11:53 PM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
N-Nitrosodimethylamine	0.018	UY	0.0088	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
N-Nitrosodiphenylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Pentachlorophenol	0.091	U	0.068	0.091	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Phenol	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	6/25/2016 11:53 PM
Surr: 2,4,6-Tribromophenol	95.3			39-132		%Rec	1	6/25/2016 11:53 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:40:00 AM
Project:	Camp Hero		
Lab ID:	1606512-014	**Matrix:**	Soil
Client Sample ID:	WDS-SB11-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	79.6			44-115		%Rec	1	6/25/2016 11:53 PM
Surr: 2-Fluorophenol	81.5			35-115		%Rec	1	6/25/2016 11:53 PM
Surr: Nitrobenzene-d5	85.2			37-122		%Rec	1	6/25/2016 11:53 PM
Surr: Phenol-d5	79.5			33-122		%Rec	1	6/25/2016 11:53 PM
Surr: Terphenyl-d14	85.7			54-127		%Rec	1	6/25/2016 11:53 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
2-Methylnaphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Benzo(a)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Benzo(a)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Benzo(b)fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Benzo(g,h,i)perylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Benzo(k)fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Chrysene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Fluorene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Indeno(1,2,3-cd)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Naphthalene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Phenanthrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/21/2016 3:17 PM
Surr: 2-Fluorobiphenyl	110			46-115		%Rec	1	7/21/2016 3:17 PM
Surr: Nitrobenzene-d5	121			44-125		%Rec	1	7/21/2016 3:17 PM
Surr: Terphenyl-d14	122			58-133		%Rec	1	7/21/2016 3:17 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.9		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - DATES REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606512-001A	WDS-SB12-05	6/13/2016 8:35 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/9/2016 1:18 AM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 8:12 PM
1606512-001B	WDS-SB12-05	6/13/2016 8:35 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/11/2016 10:09 PM
1606512-001C	WDS-SB12-05	6/13/2016 8:35 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:53 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 2:55 PM
				SW_6010S-Metals, ICP/OES		6/28/2016 12:08 PM	7/14/2016 3:46 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606512-002A	WDS-SB13-05	6/13/2016 8:20 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/9/2016 1:47 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/28/2016 2:21 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 8:37 PM
1606512-002B	WDS-SB13-05	6/13/2016 8:20 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/12/2016 12:11 AM
1606512-002C	WDS-SB13-05	6/13/2016 8:20 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:53 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:28 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:16 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:44 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606512-003A	H5-SS01-01	6/13/2016 9:50 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/9/2016 2:15 AM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/26/2016 2:42 PM
1606512-003B	H5-SS01-01	6/13/2016 9:50 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/12/2016 12:36 AM
1606512-003C	H5-SS01-01	6/13/2016 9:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:54 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:29 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:17 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:45 PM

RTI Laboratories - DATES REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606512-003C	H5-SS01-01	6/13/2016 9:50 AM	Soil				
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606512-004A	H5-SS01-02	6/13/2016 9:55 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/9/2016 2:44 AM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 9:26 PM
1606512-004B	H5-SS01-02	6/13/2016 9:55 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/12/2016 1:00 AM
1606512-004C	H5-SS01-02	6/13/2016 9:55 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:41 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:31 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:18 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:46 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606512-005A	H5-SS02-01	6/13/2016 9:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/14/2016 6:08 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/21/2016 4:50 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/27/2016 8:36 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 9:51 PM
1606512-005B	H5-SS02-01	6/13/2016 9:15 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/12/2016 1:25 AM
1606512-005C	H5-SS02-01	6/13/2016 9:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:39 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:32 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:20 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:48 PM
				PMOIST-Percent Moisture		6/16/2016 2:30 PM	6/16/2016 2:30 PM
1606512-006A	H5-SS02-01 DUP	6/13/2016 9:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/14/2016 6:35 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/27/2016 9:03 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 10:15 PM
1606512-006B	H5-SS02-01 DUP	6/13/2016 9:15 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/12/2016 1:49 AM

RTI Laboratories - DATES REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606512-006C	H5-SS02-01 DUP	6/13/2016 9:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:08 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:33 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:21 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:49 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606512-007A	H5-SS02-02	6/13/2016 9:20 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:18 AM	7/14/2016 7:02 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 10:39 PM
1606512-007B	H5-SS02-02	6/13/2016 9:20 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/12/2016 2:13 AM
1606512-007C	H5-SS02-02	6/13/2016 9:20 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:21 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:35 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:22 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:50 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606512-008A	H5-SS03-01	6/13/2016 9:35 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/12/2016 2:38 AM
1606512-008B	H5-SS03-01	6/13/2016 9:35 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:37 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606512-009A	H5-SS03-02	6/13/2016 9:40 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/12/2016 3:02 AM
1606512-009B	H5-SS03-02	6/13/2016 9:40 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:39 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606512-010A	H5-SS04-01	6/13/2016 9:05 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/12/2016 3:26 AM
1606512-010B	H5-SS04-01	6/13/2016 9:05 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:40 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM

RTI Laboratories - DATES REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606512-011A	H5-SS04-02	6/13/2016 9:10 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/5/2016 8:43 AM	7/12/2016 3:51 AM
1606512-011B	H5-SS04-02	6/13/2016 9:10 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:41 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606512-012A	WDS-SB08-05	6/13/2016 1:20 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 11:04 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 1:52 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	8/4/2016 2:43 PM
1606512-012B	WDS-SB08-05	6/13/2016 1:20 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/12/2016 7:49 PM
1606512-012C	WDS-SB08-05	6/13/2016 1:20 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:09 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:36 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:23 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:52 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606512-013A	WDS-SB09-06	6/13/2016 1:05 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 11:29 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 2:50 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/22/2016 5:49 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/28/2016 4:13 PM
1606512-013B	WDS-SB09-06	6/13/2016 1:05 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/12/2016 9:03 PM
1606512-013C	WDS-SB09-06	6/13/2016 1:05 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:38 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:37 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:25 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:53 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606512-014A	WDS-SB11-08	6/13/2016 10:40 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/25/2016 11:53 PM

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WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606512-014A	WDS-SB11-08	6/13/2016 10:40 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 3:17 PM
1606512-014B	WDS-SB11-08	6/13/2016 10:40 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/12/2016 9:27 PM
1606512-014C	WDS-SB11-08	6/13/2016 10:40 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:11 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:39 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:26 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:54 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID:	**MB-40214**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/21/2016**	RunNo:	**87666**
Client ID:	**PBS**	Batch ID:	**40214**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/8/2016**	SeqNo:	**1703029**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									UY
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	13		16.59		79.0	46	115				
Surr: Nitrobenzene-d5	14		16.59		87.0	44	125				
Surr: Terphenyl-d14	16		16.59		94.3	58	133				

Sample ID:	**LCS-40214**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/21/2016**	RunNo:	**87666**
Client ID:	**LCSS**	Batch ID:	**40214**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/8/2016**	SeqNo:	**1703030**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.011	0.00067	0.013	0	85.3	43	111				
2-Methylnaphthalene	0.011	0.00067	0.013	0	85.3	39	114				
Acenaphthene	0.011	0.00067	0.013	0	79.3	44	111				
Acenaphthylene	0.010	0.00067	0.013	0	78.3	39	116				
Anthracene	0.0099	0.00067	0.013	0	74.8	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID:	LCS-40214	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87666
Client ID:	LCSS	Batch ID:	40214	TestNo:	SW8270C	SW3550C		Analysis Date:	7/8/2016	SeqNo:	1703030

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.013	0.00067	0.013	0	101	54	122				Y
Benzo(a)pyrene	0.0099	0.00067	0.013	0	74.3	50	125				
Benzo(b)fluoranthene	0.014	0.00067	0.013	0	106	53	128				
Benzo(g,h,i)perylene	0.012	0.00067	0.013	0	91.3	49	127				
Benzo(k)fluoranthene	0.0095	0.00067	0.013	0	71.4	56	123				
Chrysene	0.0095	0.00067	0.013	0	71.8	57	118				
Dibenzo(a,h)anthracene	0.013	0.00067	0.013	0	95.7	50	129				
Fluoranthene	0.0097	0.00067	0.013	0	73.1	55	119				
Fluorene	0.011	0.00067	0.013	0	85.3	47	114				
Indeno(1,2,3-cd)pyrene	0.010	0.00067	0.013	0	76.6	49	130				
Naphthalene	0.010	0.00067	0.013	0	75.8	38	111				
Phenanthrene	0.013	0.00067	0.013	0	96.9	49	113				
Pyrene	0.012	0.00067	0.013	0	87.1	55	117				
Surr: 2-Fluorobiphenyl	15		16.59		89.3	46	115				
Surr: Nitrobenzene-d5	16		16.59		94.3	44	125				
Surr: Terphenyl-d14	18		16.59		110	58	133				

Sample ID:	1606506-006AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87666
Client ID:	ZZZZZZ	Batch ID:	40214	TestNo:	SW8270C	SW3550C		Analysis Date:	7/8/2016	SeqNo:	1703032

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.014	0.00073	0.015	0.0023	84.0	43	111				
2-Methylnaphthalene	0.015	0.00073	0.015	0.0023	86.7	39	114				
Acenaphthene	0.014	0.00073	0.015	0.0031	75.8	44	111				
Acenaphthylene	0.012	0.00073	0.015	0.00095	78.7	39	116				
Anthracene	0.020	0.00073	0.015	0.0089	78.1	50	114				
Benzo(a)anthracene	0.079	0.00073	0.015	0.058	145	54	122				JQY
Benzo(a)pyrene	0.054	0.00073	0.015	0.041	89.1	50	125				J
Benzo(b)fluoranthene	0.099	0.00073	0.015	0.094	31.0	53	128				JQ
Benzo(g,h,i)perylene	0.041	0.00073	0.015	0.029	80.3	49	127				J
Benzo(k)fluoranthene	0.021	0.00073	0.015	0.077	-380	56	123				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID:	1606506-006AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87666
Client ID:	ZZZZZZ	Batch ID:	40214	TestNo:	SW8270C	SW3550C		Analysis Date:	7/8/2016	SeqNo:	1703032

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.052	0.00073	0.015	0.042	74.1	57	118				J
Dibenzo(a,h)anthracene	0.021	0.00073	0.015	0.0053	111	50	129				
Fluoranthene	0.10	0.00073	0.015	0.091	90.4	55	119				J
Fluorene	0.015	0.00073	0.015	0.0035	81.8	47	114				
Indeno(1,2,3-cd)pyrene	0.034	0.00073	0.015	0.024	66.3	49	130				
Naphthalene	0.013	0.00073	0.015	0.0022	74.1	38	111				
Phenanthrene	0.070	0.00073	0.015	0.054	111	49	113				J
Pyrene	0.11	0.00073	0.015	0.086	132	55	117				JQ
Surr: 2-Fluorobiphenyl	15		18.14		82.8	46	115				
Surr: Nitrobenzene-d5	18		18.14		98.7	44	125				
Surr: Terphenyl-d14	19		18.14		107	58	133				

Sample ID:	1606506-006AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/21/2016	RunNo:	87666
Client ID:	ZZZZZZ	Batch ID:	40214	TestNo:	SW8270C	SW3550C		Analysis Date:	7/8/2016	SeqNo:	1703033

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.014	0.00073	0.014	0.0023	82.6	43	111	0.014	1.75	25	
2-Methylnaphthalene	0.014	0.00073	0.014	0.0023	83.3	39	114	0.015	3.65	25	
Acenaphthene	0.016	0.00073	0.014	0.0031	87.1	44	111	0.014	10.7	25	
Acenaphthylene	0.012	0.00073	0.014	0.00095	79.5	39	116	0.012	0.638	25	
Anthracene	0.021	0.00073	0.014	0.0089	84.5	50	114	0.020	4.30	25	
Benzo(a)anthracene	0.091	0.00073	0.014	0.058	230	54	122	0.079	14.3	25	JQY
Benzo(a)pyrene	0.059	0.00073	0.014	0.041	121	50	125	0.054	8.19	25	J
Benzo(b)fluoranthene	0.10	0.00073	0.014	0.094	64.7	53	128	0.099	4.79	25	J
Benzo(g,h,i)perylene	0.042	0.00073	0.014	0.029	92.7	49	127	0.041	4.24	25	J
Benzo(k)fluoranthene	0.024	0.00073	0.014	0.077	-361	56	123	0.021	12.8	25	Q
Chrysene	0.053	0.00073	0.014	0.042	77.8	57	118	0.052	0.923	25	J
Dibenzo(a,h)anthracene	0.023	0.00073	0.014	0.0053	122	50	129	0.021	7.47	25	
Fluoranthene	0.12	0.00073	0.014	0.091	171	55	119	0.10	10.6	25	JQ
Fluorene	0.017	0.00073	0.014	0.0035	91.7	47	114	0.015	8.65	25	
Indeno(1,2,3-cd)pyrene	0.036	0.00073	0.014	0.024	77.8	49	130	0.034	4.69	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40214**

Sample ID:	**1606506-006AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/21/2016**	RunNo:	**87666**
Client ID:	**ZZZZZZ**	Batch ID:	**40214**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/8/2016**	SeqNo:	**1703033**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.013	0.00073	0.014	0.0022	71.8	38	111	0.013	2.91	25	
Phenanthrene	0.082	0.00073	0.014	0.054	198	49	113	0.070	16.5	25	JQ
Pyrene	0.12	0.00073	0.014	0.086	203	55	117	0.11	9.26	25	JQ
Surr: 2-Fluorobiphenyl	15		18.07		83.1	46	115		0	25	
Surr: Nitrobenzene-d5	18		18.07		96.9	44	125		0	25	
Surr: Terphenyl-d14	18		18.07		102	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40223

Sample ID:	MB-40223	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	PBS	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1687565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.16	0.16									U
1,2-Dichlorobenzene	0.16	0.16									U
1,3-Dichlorobenzene	0.16	0.16									U
1,4-Dichlorobenzene	0.16	0.16									U
2,4,5-Trichlorophenol	0.16	0.16									U
2,4,6-Trichlorophenol	0.16	0.16									U
2,4-Dichlorophenol	0.16	0.16									U
2,4-Dimethyl phenol	0.16	0.16									U
2,4-Dinitrophenol	0.82	0.82									U
2,4-Dinitrotoluene	0.16	0.16									U
2,6-Dinitrotoluene	0.16	0.16									U
2-Chloronaphthalene	0.16	0.16									U
2-Chlorophenol	0.16	0.16									U
2-Methylphenol (o-Cresol)	0.16	0.16									U
2-Nitroaniline	0.32	0.32									U
2-Nitrophenol	0.16	0.16									U
3,3´-Dichlorobenzidine	0.99	0.99									U
3-Nitroaniline	0.32	0.32									U
3/4-Methylphenol [m/p-Cresol]	0.32	0.32									U
4,6-Dinitro-2-methylphenol	0.32	0.32									U
4-Bromophenyl phenyl ether	0.20	0.20									U
4-Chloro-3-methylphenol	0.16	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.16	0.16									U
4-Chlorophenyl phenyl ether	0.16	0.16									U
4-Nitroaniline	0.32	0.32									U
4-Nitrophenol	0.82	0.82									UY
Benzoic acid	0.99	0.99									UYZ
Benzyl alcohol	0.65	0.65									U
Bis(2-chloroethoxy) methane	0.16	0.16									U
Bis(2-chloroethyl) ether	0.16	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	MB-40223	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	PBS	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1687565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.16	0.16									UYZ
Bis(2-ethylhexyl) phthalate	0.16	0.16									U
Butyl benzyl phthalate	0.16	0.16									U
Carbazole	0.16	0.16									U
Di-n-butyl phthalate	0.16	0.16									U
Di-n-octyl phthalate	0.16	0.16									U
Dibenzofuran	0.16	0.16									U
Diethyl phthalate	0.16	0.16									U
Dimethyl phthalate	0.16	0.16									U
Hexachlorobenzene	0.16	0.16									U
Hexachlorobutadiene	0.049	0.049									U
Hexachloroethane	0.16	0.16									U
Isophorone	0.16	0.16									U
N-Nitroso-di-n-propylamine	0.16	0.16									U
N-Nitrosodimethylamine	0.16	0.16									UY
N-Nitrosodiphenylamine	0.16	0.16									U
Nitrobenzene	0.16	0.16									U
Pentachlorophenol	0.16	0.16									U
Phenol	0.16	0.16									U
Surr: 2,4,6-Tribromophenol	630		821.6		76.8	39	132				
Surr: 2-Fluorobiphenyl	600		821.6		73.6	44	115				
Surr: 2-Fluorophenol	590		821.6		72.2	35	115				
Surr: Nitrobenzene-d5	640		821.6		77.8	37	122				
Surr: Phenol-d5	570		821.6		69.3	33	122				
Surr: Terphenyl-d14	660		821.6		80.2	54	127				

Sample ID:	LCS-40223	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	LCSS	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711442

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.40	0.16	0.66	0	61.4	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**LCS-40223**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**LCSS**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711442**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.39	0.16	0.66	0	59.6	33	117				
1,3-Dichlorobenzene	0.38	0.16	0.66	0	58.0	30	115				
1,4-Dichlorobenzene	0.38	0.16	0.66	0	57.5	31	115				
2,4,5-Trichlorophenol	0.43	0.16	0.66	0	65.0	41	124				
2,4,6-Trichlorophenol	0.46	0.16	0.66	0	70.1	39	126				
2,4-Dichlorophenol	0.46	0.16	0.66	0	70.2	40	122				
2,4-Dimethyl phenol	0.38	0.16	0.66	0	58.6	30	127				
2,4-Dinitrophenol	1.3	0.82	1.6	0	80.8	50	130				
2,4-Dinitrotoluene	0.47	0.16	0.66	0	72.0	48	126				
2,6-Dinitrotoluene	0.42	0.16	0.66	0	63.2	46	124				
2-Chloronaphthalene	0.36	0.16	0.66	0	55.3	41	114				
2-Chlorophenol	0.41	0.16	0.66	0	61.7	34	121				
2-Methylphenol (o-Cresol)	0.44	0.16	0.66	0	67.0	32	122				
2-Nitroaniline	0.39	0.32	0.66	0	58.7	44	127				
2-Nitrophenol	0.44	0.16	0.66	0	67.6	36	123				
3,3´-Dichlorobenzidine	0.99	0.99	0.66	0	0	22	121				QU
3-Nitroaniline	0.45	0.32	0.66	0	69.0	33	119				
3/4-Methylphenol [m/p-Cresol]	0.80	0.32	1.3	0	61.2	34	119				
4,6-Dinitro-2-methylphenol	0.52	0.32	0.66	0	79.8	29	132				
4-Bromophenyl phenyl ether	0.36	0.20	0.66	0	55.0	46	124				
4-Chloro-3-methylphenol	0.48	0.16	0.66	0	73.5	45	122				
4-Chloroaniline [p-Chloroaniline]	0.35	0.16	0.66	0	53.3	17	106				
4-Chlorophenyl phenyl ether	0.45	0.16	0.66	0	67.8	45	121				
4-Nitroaniline	0.37	0.32	0.66	0	56.2	50	130				
4-Nitrophenol	0.88	0.82	1.6	0	53.7	30	132				Y
Benzoic acid	0.58	0.99	1.3	0	44.1	40	117				JYZ
Benzyl alcohol	0.35	0.65	0.66	0	53.4	29	122				J
Bis(2-chloroethoxy) methane	0.36	0.16	0.66	0	54.6	36	121				
Bis(2-chloroethyl) ether	0.35	0.16	0.66	0	53.4	31	120				
Bis(2-chloroisopropyl)ether	0.38	0.16	0.66	0	57.4	33	131				YZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	LCS-40223	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	LCSS	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711442

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.42	0.16	0.66	0	64.4	51	133				
Butyl benzyl phthalate	0.41	0.16	0.66	0	61.7	48	132				
Carbazole	0.41	0.16	0.66	0	62.6	50	123				
Di-n-butyl phthalate	0.41	0.16	0.66	0	62.8	51	128				
Di-n-octyl phthalate	0.39	0.16	0.66	0	58.6	45	140				
Dibenzofuran	0.41	0.16	0.66	0	63.0	44	120				
Diethyl phthalate	0.44	0.16	0.66	0	67.5	50	124				
Dimethyl phthalate	0.41	0.16	0.66	0	63.0	48	124				
Hexachlorobenzene	0.37	0.16	0.66	0	55.8	45	122				
Hexachlorobutadiene	0.44	0.049	0.66	0	66.9	32	123				
Hexachloroethane	0.40	0.16	0.66	0	61.0	28	117				
Isophorone	0.37	0.16	0.66	0	56.4	30	122				
N-Nitroso-di-n-propylamine	0.40	0.16	0.66	0	61.1	50	130				
N-Nitrosodimethylamine	0.31	0.16	0.66	0	47.3	23	120				Y
N-Nitrosodiphenylamine	0.34	0.16	0.66	0	52.1	38	127				
Nitrobenzene	0.40	0.16	0.66	0	61.2	34	122				
Pentachlorophenol	0.39	0.16	0.66	0	59.4	25	133				
Phenol	0.40	0.16	0.66	0	61.3	34	121				
Surr: 2,4,6-Tribromophenol	620		821.0		75.2	39	132				
Surr: 2-Fluorobiphenyl	540		821.0		65.6	44	115				
Surr: 2-Fluorophenol	530		821.0		64.2	35	115				
Surr: Nitrobenzene-d5	570		821.0		70.0	37	122				
Surr: Phenol-d5	530		821.0		64.4	33	122				
Surr: Terphenyl-d14	600		821.0		72.8	54	127				

Sample ID:	1606467-010DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	ZZZZZZ	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711443

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.48	0.18	0.73	0	65.7	34	118				
1,2-Dichlorobenzene	0.48	0.18	0.73	0	65.5	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**1606467-010DMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**ZZZZZZ**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711443**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.46	0.18	0.73	0	62.9	30	115				
1,4-Dichlorobenzene	0.46	0.18	0.73	0	62.4	31	115				
2,4,5-Trichlorophenol	0.55	0.18	0.73	0	75.4	41	124				
2,4,6-Trichlorophenol	0.57	0.18	0.73	0	77.8	39	126				
2,4-Dichlorophenol	0.55	0.18	0.73	0	75.2	40	122				
2,4-Dimethyl phenol	0.46	0.18	0.73	0	62.9	30	127				
2,4-Dinitrophenol	1.9	0.91	1.8	0	101	50	130				J
2,4-Dinitrotoluene	0.59	0.18	0.73	0	80.2	48	126				
2,6-Dinitrotoluene	0.52	0.18	0.73	0	70.4	46	124				
2-Chloronaphthalene	0.44	0.18	0.73	0	60.5	41	114				
2-Chlorophenol	0.50	0.18	0.73	0	68.2	34	121				
2-Methylphenol (o-Cresol)	0.52	0.18	0.73	0	70.7	32	122				
2-Nitroaniline	0.48	0.35	0.73	0	65.0	44	127				
2-Nitrophenol	0.54	0.18	0.73	0	73.5	36	123				
3,3´-Dichlorobenzidine	1.1	1.1	0.73	0	0	22	121				QU
3-Nitroaniline	0.54	0.35	0.73	0	73.2	33	119				
3/4-Methylphenol [m/p-Cresol]	0.97	0.35	1.5	0	66.4	42	126				
4,6-Dinitro-2-methylphenol	0.64	0.35	0.73	0	86.6	29	132				
4-Bromophenyl phenyl ether	0.45	0.22	0.73	0	61.8	46	124				
4-Chloro-3-methylphenol	0.57	0.18	0.73	0	77.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.41	0.18	0.73	0	56.0	17	106				
4-Chlorophenyl phenyl ether	0.53	0.18	0.73	0	72.6	45	121				
4-Nitroaniline	0.44	0.35	0.73	0	60.0	50	130				
4-Nitrophenol	1.2	0.91	1.8	0	67.2	30	132				Y
Benzoic acid	1.5	1.1	1.5	0	105	40	117				YZ
Benzyl alcohol	0.41	0.73	0.73	0	56.0	29	122				J
Bis(2-chloroethoxy) methane	0.44	0.18	0.73	0	59.6	36	121				
Bis(2-chloroethyl) ether	0.44	0.18	0.73	0	59.7	31	120				
Bis(2-chloroisopropyl)ether	0.47	0.18	0.73	0	63.8	33	131				YZ
Bis(2-ethylhexyl) phthalate	0.52	0.18	0.73	0	71.1	51	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40223

Sample ID:	1606467-010DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	ZZZZZZ	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711443

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.49	0.18	0.73	0	66.6	48	132				
Carbazole	0.50	0.18	0.73	0	68.0	50	123				
Di-n-butyl phthalate	0.50	0.18	0.73	0	68.0	51	128				
Di-n-octyl phthalate	0.48	0.18	0.73	0	65.9	45	140				
Dibenzofuran	0.51	0.18	0.73	0	69.0	44	120				
Diethyl phthalate	0.54	0.18	0.73	0	74.2	50	124				
Dimethyl phthalate	0.51	0.18	0.73	0	69.1	48	124				
Hexachlorobenzene	0.46	0.18	0.73	0	62.4	45	122				
Hexachlorobutadiene	0.53	0.055	0.73	0	72.6	32	123				
Hexachloroethane	0.48	0.18	0.73	0	65.7	28	117				
Isophorone	0.45	0.18	0.73	0	61.1	30	122				
N-Nitroso-di-n-propylamine	0.47	0.18	0.73	0	63.9	50	130				
N-Nitrosodimethylamine	0.38	0.18	0.73	0	51.6	23	120				Y
N-Nitrosodiphenylamine	0.43	0.18	0.73	0	58.2	38	127				
Nitrobenzene	0.51	0.18	0.73	0	69.5	34	122				
Pentachlorophenol	0.56	0.18	0.73	0	77.0	25	133				
Phenol	0.49	0.18	0.73	0	67.1	34	121				
Surr: 2,4,6-Tribromophenol	750		916.4		82.3	39	132				
Surr: 2-Fluorobiphenyl	660		916.4		71.9	44	115				
Surr: 2-Fluorophenol	630		916.4		68.8	35	115				
Surr: Nitrobenzene-d5	690		916.4		75.0	37	122				
Surr: Phenol-d5	640		916.4		70.2	33	122				
Surr: Terphenyl-d14	720		916.4		78.9	54	127				

Sample ID:	1606467-010DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	ZZZZZZ	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711444

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.45	0.18	0.73	0	61.9	34	118	0.48	5.92	25	
1,2-Dichlorobenzene	0.45	0.18	0.73	0	61.2	33	117	0.48	6.75	25	
1,3-Dichlorobenzene	0.43	0.18	0.73	0	59.0	30	115	0.46	6.28	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**1606467-010DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**ZZZZZZ**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711444**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.44	0.18	0.73	0	60.0	31	115	0.46	3.89	25	
2,4,5-Trichlorophenol	0.51	0.18	0.73	0	69.0	41	124	0.55	8.76	25	
2,4,6-Trichlorophenol	0.52	0.18	0.73	0	70.7	39	126	0.57	9.59	25	
2,4-Dichlorophenol	0.53	0.18	0.73	0	72.2	40	122	0.55	3.97	25	
2,4-Dimethyl phenol	0.41	0.18	0.73	0	56.5	30	127	0.46	10.8	25	
2,4-Dinitrophenol	1.6	0.91	1.8	0	86.0	50	130	1.9	16.3	25	
2,4-Dinitrotoluene	0.54	0.18	0.73	0	73.4	48	126	0.59	8.82	25	
2,6-Dinitrotoluene	0.48	0.18	0.73	0	65.0	46	124	0.52	7.94	25	
2-Chloronaphthalene	0.40	0.18	0.73	0	54.9	41	114	0.44	9.58	25	
2-Chlorophenol	0.46	0.18	0.73	0	62.3	34	121	0.50	8.93	25	
2-Methylphenol (o-Cresol)	0.47	0.18	0.73	0	63.4	32	122	0.52	10.8	25	
2-Nitroaniline	0.42	0.35	0.73	0	57.8	44	127	0.48	11.7	25	
2-Nitrophenol	0.51	0.18	0.73	0	68.9	36	123	0.54	6.36	25	
3,3´-Dichlorobenzidine	1.1	1.1	0.73	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.50	0.35	0.73	0	67.6	33	119	0.54	7.92	25	
3/4-Methylphenol [m/p-Cresol]	0.91	0.35	1.5	0	62.0	42	126	0.97	6.83	25	
4,6-Dinitro-2-methylphenol	0.58	0.35	0.73	0	79.7	29	132	0.64	8.32	25	
4-Bromophenyl phenyl ether	0.42	0.22	0.73	0	57.9	46	124	0.45	6.48	25	
4-Chloro-3-methylphenol	0.54	0.18	0.73	0	73.3	45	122	0.57	5.15	25	
4-Chloroaniline [p-Chloroaniline]	0.39	0.18	0.73	0	52.6	17	106	0.41	6.22	25	
4-Chlorophenyl phenyl ether	0.50	0.18	0.73	0	68.0	45	121	0.53	6.58	25	
4-Nitroaniline	0.38	0.35	0.73	0	51.2	50	130	0.44	15.8	25	
4-Nitrophenol	1.1	0.91	1.8	0	58.8	30	132	1.2	13.2	25	Y
Benzoic acid	1.6	1.1	1.5	0	108	40	117	1.5	3.39	25	YZ
Benzyl alcohol	0.37	0.73	0.73	0	51.1	29	122	0.41	9.12	25	J
Bis(2-chloroethoxy) methane	0.41	0.18	0.73	0	56.3	36	121	0.44	5.66	25	
Bis(2-chloroethyl) ether	0.41	0.18	0.73	0	55.7	31	120	0.44	6.98	25	
Bis(2-chloroisopropyl)ether	0.44	0.18	0.73	0	59.7	33	131	0.47	6.60	25	YZ
Bis(2-ethylhexyl) phthalate	0.45	0.18	0.73	0	61.6	51	133	0.52	14.4	25	
Butyl benzyl phthalate	0.43	0.18	0.73	0	58.8	48	132	0.49	12.4	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**1606467-010DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**ZZZZZZ**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711444**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.44	0.18	0.73	0	60.4	50	123	0.50	11.9	25	
Di-n-butyl phthalate	0.44	0.18	0.73	0	60.0	51	128	0.50	12.4	25	
Di-n-octyl phthalate	0.42	0.18	0.73	0	56.9	45	140	0.48	14.6	25	
Dibenzofuran	0.47	0.18	0.73	0	63.7	44	120	0.51	7.95	25	
Diethyl phthalate	0.49	0.18	0.73	0	66.8	50	124	0.54	10.5	25	
Dimethyl phthalate	0.46	0.18	0.73	0	63.4	48	124	0.51	8.57	25	
Hexachlorobenzene	0.41	0.18	0.73	0	55.3	45	122	0.46	12.1	25	
Hexachlorobutadiene	0.49	0.055	0.73	0	66.7	32	123	0.53	8.51	25	
Hexachloroethane	0.45	0.18	0.73	0	61.1	28	117	0.48	7.30	25	
Isophorone	0.42	0.18	0.73	0	57.7	30	122	0.45	5.60	25	
N-Nitroso-di-n-propylamine	0.44	0.18	0.73	0	59.8	50	130	0.47	6.59	25	
N-Nitrosodimethylamine	0.37	0.18	0.73	0	50.2	23	120	0.38	2.81	25	Y
N-Nitrosodiphenylamine	0.38	0.18	0.73	0	52.3	38	127	0.43	10.6	25	
Nitrobenzene	0.45	0.18	0.73	0	61.2	34	122	0.51	12.7	25	
Pentachlorophenol	0.55	0.18	0.73	0	75.2	25	133	0.56	2.33	25	
Phenol	0.47	0.18	0.73	0	63.5	34	121	0.49	5.48	25	
Surr: 2,4,6-Tribromophenol	630		916.7		68.7	39	132		0	25	
Surr: 2-Fluorobiphenyl	590		916.7		64.6	44	115		0	25	
Surr: 2-Fluorophenol	570		916.7		62.2	35	115		0	25	
Surr: Nitrobenzene-d5	640		916.7		70.0	37	122		0	25	
Surr: Phenol-d5	600		916.7		65.3	33	122		0	25	
Surr: Terphenyl-d14	630		916.7		68.8	54	127		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	**MB-40228**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**87669**
Client ID:	**PBS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1703112**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00066	0.00066									U
2-Methylnaphthalene	0.00066	0.00066									U
Acenaphthene	0.00066	0.00066									U
Acenaphthylene	0.00066	0.00066									U
Anthracene	0.00066	0.00066									U
Benzo(a)anthracene	0.00066	0.00066									U
Benzo(a)pyrene	0.00066	0.00066									U
Benzo(b)fluoranthene	0.00066	0.00066									U
Benzo(g,h,i)perylene	0.00066	0.00066									U
Benzo(k)fluoranthene	0.00066	0.00066									U
Chrysene	0.00066	0.00066									U
Dibenzo(a,h)anthracene	0.00066	0.00066									U
Fluoranthene	0.00066	0.00066									U
Fluorene	0.00066	0.00066									U
Indeno(1,2,3-cd)pyrene	0.00066	0.00066									U
Naphthalene	0.00066	0.00066									U
Phenanthrene	0.00066	0.00066									U
Pyrene	0.00066	0.00066									U
Surr: 2-Fluorobiphenyl	16		16.48		99.5	46	115				
Surr: Nitrobenzene-d5	17		16.48		105	44	125				
Surr: Terphenyl-d14	18		16.48		108	58	133				

Sample ID:	**LCS-40228**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**87669**
Client ID:	**LCSS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1703113**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00067	0.013	0	95.9	43	111				
2-Methylnaphthalene	0.012	0.00067	0.013	0	87.4	39	114				
Acenaphthene	0.012	0.00067	0.013	0	92.4	44	111				
Acenaphthylene	0.012	0.00067	0.013	0	91.9	39	116				
Anthracene	0.012	0.00067	0.013	0	90.3	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	LCS-40228	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	87669
Client ID:	LCSS	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1703113

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.013	0.00067	0.013	0	98.3	54	122				
Benzo(a)pyrene	0.012	0.00067	0.013	0	90.5	50	125				
Benzo(b)fluoranthene	0.012	0.00067	0.013	0	92.6	53	128				
Benzo(g,h,i)perylene	0.012	0.00067	0.013	0	93.9	49	127				
Benzo(k)fluoranthene	0.0095	0.00067	0.013	0	71.9	56	123				
Chrysene	0.012	0.00067	0.013	0	91.9	57	118				
Dibenzo(a,h)anthracene	0.012	0.00067	0.013	0	93.9	50	129				
Fluoranthene	0.013	0.00067	0.013	0	95.3	55	119				
Fluorene	0.012	0.00067	0.013	0	90.4	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00067	0.013	0	93.9	49	130				
Naphthalene	0.011	0.00067	0.013	0	86.4	38	111				
Phenanthrene	0.012	0.00067	0.013	0	93.0	49	113				
Pyrene	0.013	0.00067	0.013	0	94.7	55	117				
Surr: 2-Fluorobiphenyl	18		16.57		107	46	115				
Surr: Nitrobenzene-d5	17		16.57		104	44	125				
Surr: Terphenyl-d14	20		16.57		118	58	133				

Sample ID:	1606512-012AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87825
Client ID:	WDS-SB08-05MS1	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1707066

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.033	0.00087	0.017	0.0045	168	44	111				Q
Acenaphthylene	0.047	0.00087	0.017	0.0050	245	39	116				JQ
Anthracene	0.063	0.00087	0.017	0.043	117	50	114				JQ
Benzo(a)anthracene	0.19	0.00087	0.017	0.045	859	54	122				JQ
Benzo(a)pyrene	0.18	0.00087	0.017	0.041	800	50	125				JQ
Benzo(b)fluoranthene	0.29	0.00087	0.017	0.066	1,290	53	128				JQ
Benzo(g,h,i)perylene	0.060	0.00087	0.017	0.020	233	49	127				JQ
Benzo(k)fluoranthene	0.064	0.00087	0.017	0.025	221	56	123				JQ
Chrysene	0.18	0.00087	0.017	0.044	808	57	118				JQ
Dibenzo(a,h)anthracene	0.027	0.00087	0.017	0.0012	149	50	129				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40228

Sample ID:	1606512-012AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87825
Client ID:	WDS-SB08-05MS1	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1707066

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Fluoranthene	0.33	0.00087	0.017	0.089	1,420	55	119				JQ
Fluorene	0.037	0.00087	0.017	0.0048	189	47	114				Q
Indeno(1,2,3-cd)pyrene	0.061	0.00087	0.017	0.019	246	49	130				JQ
Phenanthrene	0.19	0.00087	0.017	0.042	846	49	113				JQ
Pyrene	0.30	0.00087	0.017	0.075	1,280	55	117				JQ
Surr: 2-Fluorobiphenyl	22		21.54		103	46	115				
Surr: Nitrobenzene-d5	25		21.54		114	44	125				
Surr: Terphenyl-d14	26		21.54		123	58	133				

Sample ID:	1606512-012AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87825
Client ID:	WDS-SB08-05SD1	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1707067

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.022	0.00088	0.017	0.0045	103	44	111	0.033	39.3	25	R
Acenaphthylene	0.027	0.00088	0.017	0.0050	129	39	116	0.047	52.9	25	RQ
Anthracene	0.030	0.00088	0.017	0.043	-74.8	50	114	0.063	70.8	25	RQ
Benzo(a)anthracene	0.062	0.00088	0.017	0.045	102	54	122	0.19	102	25	JR
Benzo(a)pyrene	0.057	0.00088	0.017	0.041	93.7	50	125	0.18	103	25	JR
Benzo(b)fluoranthene	0.076	0.00088	0.017	0.066	57.6	53	128	0.29	117	25	JR
Benzo(g,h,i)perylene	0.022	0.00088	0.017	0.020	14.2	49	127	0.060	91.2	25	RQ
Benzo(k)fluoranthene	0.044	0.00088	0.017	0.025	108	56	123	0.064	35.5	25	JR
Chrysene	0.058	0.00088	0.017	0.044	78.3	57	118	0.18	104	25	JR
Dibenzo(a,h)anthracene	0.015	0.00088	0.017	0.0012	80.7	50	129	0.027	55.4	25	R
Fluoranthene	0.10	0.00088	0.017	0.089	81.8	55	119	0.33	106	25	JR
Fluorene	0.022	0.00088	0.017	0.0048	99.2	47	114	0.037	51.3	25	R
Indeno(1,2,3-cd)pyrene	0.024	0.00088	0.017	0.019	27.8	49	130	0.061	87.6	25	RQ
Phenanthrene	0.048	0.00088	0.017	0.042	33.7	49	113	0.19	119	25	JRQ
Pyrene	0.093	0.00088	0.017	0.075	103	55	117	0.30	104	25	JR
Surr: 2-Fluorobiphenyl	24		21.78		112	46	115		0	25	
Surr: Nitrobenzene-d5	28		21.78		127	44	125		0	25	Q
Surr: Terphenyl-d14	29		21.78		132	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	**MB-1-40228**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**88044**
Client ID:	**PBS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1711881**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.00066	0.00066									U
Acenaphthylene	0.00066	0.00066									U
Anthracene	0.00066	0.00066									U
Benzo(a)anthracene	0.00066	0.00066									U
Benzo(a)pyrene	0.00066	0.00066									U
Benzo(b)fluoranthene	0.00066	0.00066									U
Benzo(g,h,i)perylene	0.00066	0.00066									U
Benzo(k)fluoranthene	0.00066	0.00066									U
Chrysene	0.00066	0.00066									U
Dibenzo(a,h)anthracene	0.00066	0.00066									U
Fluoranthene	0.00066	0.00066									U
Fluorene	0.00066	0.00066									U
Indeno(1,2,3-cd)pyrene	0.00066	0.00066									U
Phenanthrene	0.00066	0.00066									U
Pyrene	0.00066	0.00066									U
Surr: 2-Fluorobiphenyl	16		16.48		99.5	46	115				
Surr: Nitrobenzene-d5	17		16.48		105	44	125				
Surr: Terphenyl-d14	18		16.48		108	58	133				

Sample ID:	**LCS-1-40228**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**88044**
Client ID:	**LCSS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1711882**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.012	0.00067	0.013	0	92.4	44	111				
Acenaphthylene	0.012	0.00067	0.013	0	91.9	39	116				
Anthracene	0.012	0.00067	0.013	0	90.3	50	114				
Benzo(a)anthracene	0.013	0.00067	0.013	0	98.3	54	122				
Benzo(a)pyrene	0.012	0.00067	0.013	0	90.5	50	125				
Benzo(b)fluoranthene	0.012	0.00067	0.013	0	92.6	53	128				
Benzo(g,h,i)perylene	0.012	0.00067	0.013	0	93.9	49	127				
Benzo(k)fluoranthene	0.0095	0.00067	0.013	0	71.9	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	**LCS-1-40228**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**88044**
Client ID:	**LCSS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1711882**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.012	0.00067	0.013	0	91.9	57	118				
Dibenzo(a,h)anthracene	0.012	0.00067	0.013	0	93.9	50	129				
Fluoranthene	0.013	0.00067	0.013	0	95.3	55	119				
Fluorene	0.012	0.00067	0.013	0	90.4	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00067	0.013	0	93.9	49	130				
Phenanthrene	0.012	0.00067	0.013	0	93.0	49	113				
Pyrene	0.013	0.00067	0.013	0	94.7	55	117				
Surr: 2-Fluorobiphenyl	18		16.57		107	46	115				
Surr: Nitrobenzene-d5	17		16.57		104	44	125				
Surr: Terphenyl-d14	20		16.57		118	58	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	**LCS-40258**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**%Rec**	Prep Date:	**6/26/2016**	RunNo:	**87786**
Client ID:	**LCSS**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/1/2016**	SeqNo:	**1706011**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	20		16.26		124	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		145	44	125				Q
Surr: Terphenyl-d14	22		16.26		134	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40280

Sample ID:	MB-40280	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	PBS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706006

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	19		16.27		116	46	115				Q
Surr: Nitrobenzene-d5	21		16.27		126	44	125				Q
Surr: Terphenyl-d14	21		16.27		128	58	133				

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	21		16.66		125	46	115				Q
Surr: Nitrobenzene-d5	23		16.66		140	44	125				Q
Surr: Terphenyl-d14	22		16.66		133	58	133				Q

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	23		19.72		119	46	115				Q
Surr: Nitrobenzene-d5	28		19.72		142	44	125				Q
Surr: Terphenyl-d14	28		19.72		144	58	133				Q

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706920

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	25		19.41		129	46	115		0	25	Q
Surr: Nitrobenzene-d5	29		19.41		151	44	125		0	25	Q
Surr: Terphenyl-d14	29		19.41		150	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40282**

Sample ID:	MB-40282	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	PBS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697068

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									UG
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40282	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	LCSS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697069

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	26	5.0	25	0	104	74	119				
Antimony	23	1.0	25	0	90.1	79	114				
Arsenic	23	2.0	25	0	91.3	82	111				
Barium	25	10	25	0	98.9	83	113				
Beryllium	24	0.25	25	0	95.9	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40282

Sample ID:	LCS-40282	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	LCSS	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697069

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	22	0.25	25	0	89.8	82	113				
Calcium	230	50	250	0	90.7	81	116				
Chromium	23	0.50	25	0	92.6	85	113				
Cobalt	24	1.0	25	0	95.3	85	112				G
Copper	26	5.0	25	0	103	81	117				
Iron	230	15	250	0	93.4	81	118				
Lead	24	5.0	25	0	97.2	81	112				
Magnesium	230	50	250	0	93.4	78	115				
Manganese	26	1.0	25	0	104	84	114				
Nickel	23	5.0	25	0	90.5	83	113				
Potassium	240	20	250	0	94.4	81	116				
Selenium	25	2.0	25	0	100	78	111				
Silver	23	1.0	25	0	90.1	82	112				
Sodium	230	50	250	0	93.0	83	118				
Vanadium	23	2.5	25	0	93.0	82	114				
Zinc	23	5.0	25	0	91.5	82	113				

Sample ID:	1606506-006CMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	ZZZZZZ	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,200	3.5	18	7,700	2,770	74	119				Q
Antimony	17	0.71	18	2.4	83.7	79	114				
Arsenic	17	1.4	18	2.7	79.2	82	111				Q
Barium	39	7.1	18	16	128	83	113				Q
Beryllium	16	0.18	18	0	88.7	83	113				
Cadmium	16	0.18	18	0.032	87.6	82	113				
Calcium	1,100	35	180	660	240	81	116				Q
Chromium	27	0.35	18	12	86.0	85	113				
Cobalt	17	0.71	18	2.6	83.3	85	112				QG
Copper	44	3.5	18	25	106	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40282**

Sample ID:	1606506-006CMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	ZZZZZZ	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,800	11	180	9,500	133	81	118				JQ
Lead	27	3.5	18	8.1	108	81	112				
Magnesium	1,300	35	180	960	178	78	115				Q
Manganese	180	0.71	18	140	202	84	114				Q
Nickel	22	3.5	18	5.3	91.9	83	113				
Potassium	720	14	180	420	169	81	116				Q
Selenium	12	1.4	18	0	69.3	78	111				Q
Silver	15	0.71	18	0	86.7	82	112				
Sodium	240	35	180	66	95.6	83	118				
Vanadium	33	1.8	18	19	82.2	82	114				
Zinc	32	3.5	18	14	97.6	82	113				

Sample ID:	1606506-006CMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87406
Client ID:	ZZZZZZ	Batch ID:	40282	TestNo:	SW6010B	SW3050B		Analysis Date:	7/14/2016	SeqNo:	1697109

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,200	3.5	18	7,700	-3,020	74	119	8,200	13.3	20	Q
Antimony	17	0.70	18	2.4	85.5	79	114	17	1.25	20	
Arsenic	17	1.4	18	2.7	81.7	82	111	17	2.06	20	Q
Barium	35	7.0	18	16	105	83	113	39	11.4	20	
Beryllium	16	0.18	18	0	92.1	83	113	16	3.05	20	
Cadmium	16	0.18	18	0.032	89.8	82	113	16	1.88	20	
Calcium	890	35	180	660	133	81	116	1,100	19.3	20	Q
Chromium	26	0.35	18	12	84.5	85	113	27	1.33	20	Q
Cobalt	18	0.70	18	2.6	87.0	85	112	17	3.23	20	G
Copper	41	3.5	18	25	91.2	81	117	44	6.29	20	
Iron	8,900	11	180	9,500	-384	81	118	9,800	9.77	20	JQ
Lead	26	3.5	18	8.1	101	81	112	27	5.11	20	
Magnesium	1,100	35	180	960	83.6	78	115	1,300	14.1	20	
Manganese	160	0.70	18	140	134	84	114	180	7.10	20	Q
Nickel	21	3.5	18	5.3	89.5	83	113	22	2.46	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40282**

Sample ID:	**1606506-006CMSD**	Samp Type:	**MSD**	Test Code:	**SW_6010S**	Units:	**mg/Kg-dry**	Prep Date:	**6/28/2016**	RunNo:	**87406**
Client ID:	**ZZZZZZ**	Batch ID:	**40282**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**7/14/2016**	SeqNo:	**1697109**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	620	14	180	420	118	81	116	720	13.8	20	Q
Selenium	15	1.4	18	0	83.4	78	111	12	17.8	20	
Silver	15	0.70	18	0	88.1	82	112	15	0.935	20	
Sodium	240	35	180	66	98.0	83	118	240	1.32	20	
Vanadium	33	1.8	18	19	80.2	82	114	33	1.31	20	Q
Zinc	30	3.5	18	14	87.3	82	113	32	6.21	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40297**

Sample ID:	MB-40297	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87077
Client ID:	PBS	Batch ID:	40297	TestNo:	SW6010B	SW3050B		Analysis Date:	6/30/2016	SeqNo:	1689247

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	5.0	5.0									U

Sample ID:	LCS-40297	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87077
Client ID:	LCSS	Batch ID:	40297	TestNo:	SW6010B	SW3050B		Analysis Date:	6/30/2016	SeqNo:	1689248

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	25	5.0	25	0	99.7	81	112				

Sample ID:	1606603-010AMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87077
Client ID:	ZZZZZZ	Batch ID:	40297	TestNo:	SW6010B	SW3050B		Analysis Date:	6/30/2016	SeqNo:	1689250

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	22	3.8	19	3.5	100	81	112				

Sample ID:	1606603-010AMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87077
Client ID:	ZZZZZZ	Batch ID:	40297	TestNo:	SW6010B	SW3050B		Analysis Date:	6/30/2016	SeqNo:	1689251

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	22	3.8	19	3.5	98.2	81	112	22	0.429	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40326**

Sample ID:	MB-40326	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	PBS	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691398

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	8.6	20									J
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40326	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	LCSS	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691399

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	113	74	119				
Antimony	26	1.0	25	0	104	79	114				
Arsenic	24	2.0	25	0	95.2	82	111				
Barium	25	10	25	0	98.8	83	113				
Beryllium	25	0.25	25	0	101	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40326

Sample ID:	LCS-40326	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	LCSS	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691399

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	25	0.25	25	0	98.7	82	113				
Calcium	250	50	250	0	102	81	116				
Chromium	26	0.50	25	0	106	85	113				
Cobalt	26	1.0	25	0	105	85	112				
Copper	27	5.0	25	0	109	81	117				
Iron	260	15	250	0	102	81	118				
Lead	26	5.0	25	0	103	81	112				
Magnesium	250	50	250	0	102	78	115				
Manganese	28	1.0	25	0	110	84	114				
Nickel	25	5.0	25	0	101	83	113				
Potassium	220	20	250	0	89.5	81	116				
Selenium	26	2.0	25	0	105	78	111				
Silver	25	1.0	25	0	99.5	82	112				
Sodium	240	50	250	0	96.9	83	118				
Vanadium	26	2.5	25	0	103	82	114				
Zinc	25	5.0	25	0	99.2	82	113				

Sample ID:	1606601-008CMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	ZZZZZZ	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691401

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	14,000	3.8	19	10,000	16,900	74	119				Q
Antimony	23	0.76	19	3.8	103	79	114				
Arsenic	20	1.5	19	2.5	94.8	82	111				
Barium	64	7.6	19	35	152	83	113				Q
Beryllium	19	0.19	19	0.20	100	83	113				
Cadmium	19	0.19	19	0.14	102	82	113				
Calcium	1,100	38	190	650	229	81	116				Q
Chromium	40	0.38	19	18	117	85	113				Q
Cobalt	23	0.76	19	3.8	101	85	112				
Copper	72	3.8	19	42	162	81	117				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40326

Sample ID: **1606601-008CMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/1/2016** RunNo: **87158**

Client ID: **ZZZZZZ** Batch ID: **40326** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/5/2016** SeqNo: **1691401**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	17,000	11	190	14,000	1,820	81	118				JQ
Lead	26	3.8	19	7.4	97.5	81	112				
Magnesium	3,000	38	190	2,100	453	78	115				JQ
Manganese	310	0.76	19	230	414	84	114				JQ
Nickel	30	3.8	19	9.3	109	83	113				
Potassium	2,000	15	190	1,400	328	81	116				JQ
Selenium	16	1.5	19	0	83.2	78	111				
Silver	19	0.76	19	0	100	82	112				
Sodium	330	38	190	83	129	83	118				Q
Vanadium	47	1.9	19	23	123	82	114				JQ
Zinc	150	3.8	19	110	214	82	113				Q

Sample ID: **1606601-008CMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/1/2016** RunNo: **87158**

Client ID: **ZZZZZZ** Batch ID: **40326** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/5/2016** SeqNo: **1691402**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	13,000	3.8	19	10,000	14,300	74	119	14,000	3.36	20	Q
Antimony	24	0.76	19	3.8	106	79	114	23	3.50	20	
Arsenic	22	1.5	19	2.5	99.9	82	111	20	5.78	20	
Barium	60	7.6	19	35	134	83	113	64	4.99	20	Q
Beryllium	20	0.19	19	0.20	103	83	113	19	3.94	20	
Cadmium	20	0.19	19	0.14	103	82	113	19	2.60	20	
Calcium	990	38	190	650	181	81	116	1,100	8.25	20	Q
Chromium	41	0.38	19	18	123	85	113	40	3.22	20	Q
Cobalt	23	0.76	19	3.8	103	85	112	23	2.93	20	
Copper	69	3.8	19	42	146	81	117	72	3.82	20	Q
Iron	16,000	11	190	14,000	1,250	81	118	17,000	6.27	20	JQ
Lead	27	3.8	19	7.4	104	81	112	26	5.94	20	
Magnesium	2,700	38	190	2,100	289	78	115	3,000	10.7	20	JQ
Manganese	290	0.76	19	230	303	84	114	310	6.78	20	JQ
Nickel	31	3.8	19	9.3	112	83	113	30	2.91	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40326**

Sample ID:	1606601-008CMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	ZZZZZZ	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691402

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,800	15	190	1,400	244	81	116	2,000	7.91	20	Q
Selenium	16	1.5	19	0	84.4	78	111	16	2.75	20	
Silver	20	0.76	19	0	102	82	112	19	3.49	20	
Sodium	320	38	190	83	122	83	118	330	2.96	20	Q
Vanadium	46	1.9	19	23	120	82	114	47	0.470	20	JQ
Zinc	150	3.8	19	110	208	82	113	150	0.517	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40331**

Sample ID:	1606506-006BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/5/2016	RunNo:	87353
Client ID:	ZZZZZZ	Batch ID:	40331	TestNo:	SW8082	SW3546		Analysis Date:	7/11/2016	SeqNo:	1695516

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.036	0.18	0	69.3	46	129				
Aroclor 1260	0.13	0.036	0.18	0	69.2	45	134				
Surr: Tetrachloro-m-xylene	5.0		9.078		55.6	44	130				
Surr: Decachlorobiphenyl	6.2		9.078		67.8	40	135				

Sample ID:	1606506-006BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/5/2016	RunNo:	87353
Client ID:	ZZZZZZ	Batch ID:	40331	TestNo:	SW8082	SW3546		Analysis Date:	7/11/2016	SeqNo:	1695517

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.036	0.18	0	77.3	46	129	0.13	11.8	25	
Aroclor 1260	0.14	0.036	0.18	0	78.9	45	134	0.13	13.9	25	
Surr: Tetrachloro-m-xylene	5.7		9.156		61.8	44	130		0	25	
Surr: Decachlorobiphenyl	7.1		9.156		77.4	40	135		0	25	

Sample ID:	LCS-40331	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87353
Client ID:	LCSS	Batch ID:	40331	TestNo:	SW8082	SW3546		Analysis Date:	7/11/2016	SeqNo:	1695542

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.033	0.17	0	90.4	46	129				
Aroclor 1260	0.15	0.033	0.17	0	92.9	45	134				
Surr: Tetrachloro-m-xylene	6.7		8.317		80.4	44	130				
Surr: Decachlorobiphenyl	7.8		8.317		93.4	40	135				

Sample ID:	MB-40331	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87353
Client ID:	PBS	Batch ID:	40331	TestNo:	SW8082	SW3546		Analysis Date:	7/11/2016	SeqNo:	1695543

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40331**

Sample ID:	**MB-40331**	Samp Type:	**MBLK**	Test Code:	**SW_8082S**	Units:	**mg/Kg**	Prep Date:	**7/5/2016**	RunNo:	**87353**
Client ID:	**PBS**	Batch ID:	**40331**	TestNo:	**SW8082**	**SW3546**		Analysis Date:	**7/11/2016**	SeqNo:	**1695543**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.1		8.231		86.2	44	130				
Surr: Decachlorobiphenyl	8.1		8.231		98.6	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40377**

Sample ID:	1606512-012BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	WDS-SB08-05MS1	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697231

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.21	0.043	0.22	0	94.9	46	129				
Aroclor 1260	0.21	0.043	0.22	0	96.9	45	134				
Surr: Tetrachloro-m-xylene	9.5		10.96		86.4	44	130				
Surr: Decachlorobiphenyl	10		10.96		94.0	40	135				

Sample ID:	1606512-012BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	WDS-SB08-05SD1	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697232

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.21	0.043	0.22	0	97.2	46	129	0.21	1.93	25	
Aroclor 1260	0.22	0.043	0.22	0	103	45	134	0.21	5.54	25	
Surr: Tetrachloro-m-xylene	9.9		10.91		90.8	44	130		0	25	
Surr: Decachlorobiphenyl	11		10.91		103	40	135		0	25	

Sample ID:	LCS-40377	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	LCSS	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697259

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.033	0.17	0	87.5	46	129				
Aroclor 1260	0.15	0.033	0.17	0	91.9	45	134				
Surr: Tetrachloro-m-xylene	6.5		8.317		78.5	44	130				
Surr: Decachlorobiphenyl	7.6		8.317		91.5	40	135				

Sample ID:	MB-40377	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	PBS	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697260

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40377

Sample ID:	MB-40377	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	PBS	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697260

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	8.6		8.330		103	44	130				
Surr: Decachlorobiphenyl	9.6		8.330		116	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40482**

Sample ID:	**1606467-020FMS**	Samp Type:	**MS**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**ZZZZZZ**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699649**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	6.4	0.13	6.7	0.041	94.6	83	118				G	

Sample ID:	**1606467-020FMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**ZZZZZZ**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699650**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.4	0.14	6.8	0.041	108	83	118	6.4	13.5	20	G	

Sample ID:	**LCS-40482**	Samp Type:	**LCS**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**LCSS**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699651**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	10	0.20	10	0	100	83	118				G	

Sample ID:	**MB-40482**	Samp Type:	**MBLK**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**PBS**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699652**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	0.20	0.20									UG	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40501**

Sample ID:	**LCS-40501**	Samp Type:	**LCS**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/21/2016**	RunNo:	**87609**
Client ID:	**LCSS**	Batch ID:	**40501**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/26/2016**	SeqNo:	**1702241**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	10	0.20	10	0	104	83	118				

Sample ID:	**MB-40501**	Samp Type:	**MBLK**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/21/2016**	RunNo:	**87609**
Client ID:	**PBS**	Batch ID:	**40501**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/26/2016**	SeqNo:	**1702242**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	**1606506-006CMS**	Samp Type:	**MS**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/21/2016**	RunNo:	**87609**
Client ID:	**ZZZZZZ**	Batch ID:	**40501**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/26/2016**	SeqNo:	**1702244**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.2	0.14	7.2	0.10	98.6	83	118				

Sample ID:	**1606506-006CMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/21/2016**	RunNo:	**87609**
Client ID:	**ZZZZZZ**	Batch ID:	**40501**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/26/2016**	SeqNo:	**1702245**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.2	0.14	7.0	0.10	101	83	118	7.2	0.247	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86766**

Sample ID:	**1606506-006C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86766**
Client ID:	**ZZZZZZ**	Batch ID:	**R86766**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683355**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	9.9	1.0						9.378	5.75	20	

Sample ID:	**1606512-005C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86766**
Client ID:	**H5-SS02-01LR1**	Batch ID:	**R86766**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683367**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	72	1.0						72.95	1.15	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86767**

Sample ID:	**1606512-006C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86767**
Client ID:	**H5-SS02-01 DUPLR1**	Batch ID:	**R86767**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683369**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	73	1.0						72.02	0.899	20	

Sample ID:	**1606524-006A DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/16/2016**	RunNo:	**86767**
Client ID:	**ZZZZZZ**	Batch ID:	**R86767**	TestNo:	**D2216**			Analysis Date:	**6/16/2016**	SeqNo:	**1683384**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	7.8	1.0						8.428	8.12	20	

RTI Laboratories - Definitions and Acronyms

WO#: 1606512

Date Reported: 8/25/2016
Revision v2

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606512

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	061416-02
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	WDS-SB12	04	05	N	1	WDS-SB12-05	6/13/16	0835	SO	3	034	1				1			X	1			
2	WDS-SB13	04	05	N	1	WDS-SB13-05		0820	SO	3		1				1			X	1			
3	HS-SS01	00	01	N	1	HS-SS01-01		0950	SS	3		1				1			X	1			
4	↓	01	02	N	1	HS-SS01-02		0955	SO	3		1				1			X	1			
5	HS-SS02	00	01	N	1	HS-SS02-01		0915	SS	3		1				1			X	1			
6	↓	00	01	FD	1	HS-SS02-01DUP		0915	SS	3		1				1			X	1			
7	↓	01	02	N	1	HS-SS02-02		0920	SO	3		1				1			X	1			
8	HS-SS03	00	01	N	1	HS-SS03-01		0935	SS	2									1		1		
9	HS-SS03	01	02	N	1	HS-SS03-02		0940	SO	2									1		1		
10	HS-SS04	00	01	N	1	HS-SS03-01		0905	SS	2									1		1		*
11	HS-SS04	01	02	N	1	HS-SS03-02		0910	SO	2									1		1		*
12	WDS-SB08	04	05	N	1	WDS-SB08-05		1320	SO	3						1			1	1			
13	WDS-SB01	05	06	N	1	WDS-SB01-06		1305	SO	3						1			1	1			

		Date	Time		Date	Time
1.	Relinquished By / Company: Amanda Martin AECOM	6/14/16	1900	1. Received By / Company: Transferred to FedEx 6/14/16		1900
2.	Relinquished By / Company			2. Received By / Company: Frank Moulton RTI	6/15/16	0900
3.	Relinquished By / Company			3. Received By / Company		

Comments: ACS: HS, WDS

Shipment Method/Airbill No.: 8103 0102 5784

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

VOC analysis for WDS/HS Samples on water

TA Buffalo

⊗ Lid cracked replaced @ login

* Bottles Labeled HS-SS04-01
HS-SS04-02

X - Added PCB's per workplan - bottles rec'd - KG

1606512

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	06141616-02
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
WDS-SB11	07	08	N	1	WDS-SB11-08	6/13/16	1040	SO	3	034					(1)			1	1			

Amanda Martin AECOM

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/14/16	Time: 1400	1. Received By / Company: Transfer to FedEx	Date: 6/14/16	Time: 1400
2. Relinquished By / Company:	Date:	Time:	2. Received By / Company: Kathryn Hutton	Date: 6/15/16	Time: 0935
3. Relinquished By / Company:	Date:	Time:	3. Received By / Company:	Date:	Time:

Comments: (1) Lid cracked - replaced @ Login

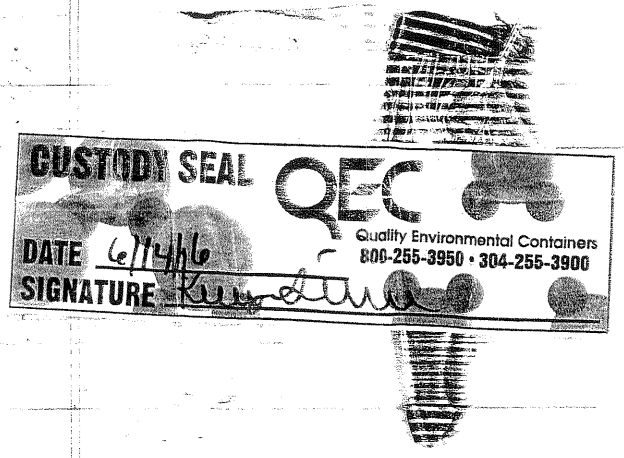
Shipment Method/Airbill No.: 8105 0202 5784

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

TA Buffalo

6/15/16



Cooler ID A595
track# 8103 0202 5740
Cooler # 039
CoC 061416-07
Cooler Temp Blank 3.6°C

Cooler # 034
Cooler ID: TA Buffalo
CoC ID: 061416-02
TRACKING # 5703 0202 5784
Cooler Temp Blank: 2.4°C

Cooler # 037
Cooler ID Serenity 818
CoC ID 061416-05
TRACKING # 8103 0202 5729
Cooler Temp Blank 2.8°C

Cooler # 033
Cooler ID QDL
CoC ID 061416-01
tracking 8103 0202 5773
Temp (Cooler) Blank 3.8°C

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Monday, August 29, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606524

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606524-001A	MP-SS02-01		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606524-001B	MP-SS02-01		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606524-002A	MP-SS02-01 DUP		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606524-002B	MP-SS02-01 DUP		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606524-003A	MP-SB02-11		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606524-003B	MP-SB02-11		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606524-004A	MP-SS03-01		6/13/2016 11:15 AM	6/15/2016 9:50 AM	Soil
1606524-004B	MP-SS03-01		6/13/2016 11:15 AM	6/15/2016 9:50 AM	Soil
1606524-004C	MP-SS03-01		6/13/2016 11:15 AM	6/15/2016 9:50 AM	Soil
1606524-005A	MP-SB03-09		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606524-005B	MP-SB03-09		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606524-005C	MP-SB03-09		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606524-006A	EFO-SS01-01		6/13/2016 10:05 AM	6/15/2016 9:50 AM	Soil
1606524-007A	EFO-SB01-08		6/13/2016 10:15 AM	6/15/2016 9:50 AM	Soil
1606524-008A	H16-SS01-01		6/13/2016 10:50 AM	6/15/2016 9:50 AM	Soil
1606524-008B	H16-SS01-01		6/13/2016 10:50 AM	6/15/2016 9:50 AM	Soil
1606524-008C	H16-SS01-01		6/13/2016 10:50 AM	6/15/2016 9:50 AM	Soil
1606524-009A	H16-SB01-05		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606524-009B	H16-SB01-05		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606524-009C	H16-SB01-05		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606524-010A	H16-SB01-05 DUP		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606524-010B	H16-SB01-05 DUP		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606524-010C	H16-SB01-05 DUP		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606524-011A	H14-SS01-01		6/13/2016 2:50 PM	6/15/2016 9:50 AM	Soil
1606524-011B	H14-SS01-01		6/13/2016 2:50 PM	6/15/2016 9:50 AM	Soil
1606524-012A	H14-SB01-07		6/13/2016 3:10 PM	6/15/2016 9:50 AM	Soil
1606524-012B	H14-SB01-07		6/13/2016 3:10 PM	6/15/2016 9:50 AM	Soil
1606524-013A	H14-SB01-07 DUP		6/13/2016 3:10 PM	6/15/2016 9:50 AM	Soil
1606524-013B	H14-SB01-07 DUP		6/13/2016 3:10 PM	6/15/2016 9:50 AM	Soil
1606524-014A	H14-SS02-01		6/13/2016 2:10 PM	6/15/2016 9:50 AM	Soil
1606524-014B	H14-SS02-01		6/13/2016 2:10 PM	6/15/2016 9:50 AM	Soil
1606524-015A	H14-SB02-25		6/13/2016 3:55 PM	6/15/2016 9:50 AM	Soil
1606524-015B	H14-SB02-25		6/13/2016 3:55 PM	6/15/2016 9:50 AM	Soil
1606524-016A	H14-SS03-01		6/13/2016 3:25 PM	6/15/2016 9:50 AM	Soil
1606524-016B	H14-SS03-01		6/13/2016 3:25 PM	6/15/2016 9:50 AM	Soil
1606524-017A	H14-SB03-06		6/13/2016 3:35 PM	6/15/2016 9:50 AM	Soil
1606524-017B	H14-SB03-06		6/13/2016 3:35 PM	6/15/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical report revised 9/7/2016: Reference to MB-40244 and LCS-40244 was removed from QC report.

Analytical Report revised 8/11/2016: Compound 3,3´-Dichlorobenzidine and Di-N-Butyl Phthalate was missing in the SVOC analysis. Also Benzoic Acid was missing in the QC Summary report for the LCS, MS and MSD.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A
- Polychlorinated Biphenyls - 8082A
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM
- Semi-Volatile Organic Compounds - 8270D-SIM-STAR
- Explosives - 8330B

Analytical Comments for Test SW_8270S-LL, Analytical Run No 86974, Batch ID R86974:
Sample ICV S8 050216: ICV results for Benzoic acid and Bis(2-chloroisopropyl) ether exceeded control limits.
Sample CCV S8 062516: CCV results for 4-Nitrophenol, Benzoic acid, Bis(2-chloroisopropyl) ether and N-Nitrosodimethylamine exceeded control limits.
Sample CCVE S8 062516: Ending CCV result for Benzoic acid exceeded recovery control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87145, Batch ID 40226:
No samples from work order 1606524 were reported in this analytical run.
Sample LCS-40226: Recovery for Dibenzo(a,h)pyrene was outside control criteria.
Sample 1606593-006AMS: Multiple recovery failures detected for sample. Sample is not associated with work order.
Sample 1606593-006AMSD: Multiple recovery failures detected for sample. The RPD percentage for 4-Nitrophenol was above control criteria. Sample is not associated with work order.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87747, Batch ID R87747:
Sample ICV S8 070216: ICV result for Bis(2-chloroisopropyl) ether exceeded control limits, high.
Sample CCV S8 070816: CCV results for 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline and 4-Nitrophenol exceeded control criteria, all high.
Sample CCVE S8 070816: Ending CCV results for Benzoic acid and N-nitrosodipropylamine exceeded recovery control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87828, Batch ID R87828:
Sample ICV S8 080216: ICV results for 4,6-Dinitro-2-methylphenol, Bis (2-chloroisopropyl)ether, Dibenzo(a,h)pyrene exceeded control limits.
Sample CCV S8 080316: CCV results for 4,6-Dinitro-2-methylphenol, Benzoic acid, Bis (2-chloroisopropyl)ether, Dibenzo(a,h)pyrene and Pentachlorophenol exceeded control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87828, Batch ID 40226:
Sample 1606524-008: Re-analysis reported due to failure of internal standards in original analysis.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87669, Batch ID 87669:
Sample CCVE SIM S7 072116: Ending CCV results for Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Dibenz(a,h)anthracene and Indeno (1,2,3-cd)pyrene exceeded the 50% criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87669, Batch ID 40228:
Sample 1606524-017A: Surrogate Nitrobenzene-d5 was outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87786, Batch ID 87786:
Sample CCV SIM S7 080116 : Results for 1-Methylnaphthalene exceeded QC LIMIT.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87786, Batch ID 40228:
Sample 1606524-003A: Surrogate recovery for Terphenyl-d14 was outside control criteria.
Sample 1606524-008A: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were diluted out of sample. Sample was originally analyzed at a lower dilution, (3x), were surrogates had passed. However, all analyses were detected above calibration range and not reported. Surrogates were reported with 200x dilution results.

Analytical Comments for Test SW_8330S, Analytical Run No 87217, Batch ID 40255:
Sample Grinding LCS: Elevated recoveries for most compounds. All associated samples were non detect for all analytes.
Sample Grinding LCS 5X: Elevated recoveries for most compounds. All associated samples were non detect for all analytes.
Sample 1606524-006AMS: Recovery for 2,6-Dinitrotoluene exceeded control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87158, Batch ID 40326:
Sample 1606601-008CMS: Recoveries for multiple analytes failed control criteria. Sample is not associated with work order.
Sample 1606601-008CMSD: Recoveries for multiple analytes failed control criteria. Sample is not associated with work order.

Analytical Comments for Test SW_6010S, Analytical Run No 87450, Batch ID 40376:
Sample 1606606-002BMS: Recoveries for multiple analytes were outside control criteria. Sample is not associated with work order.
Sample 1606606-002BMSD: Recoveries for Aluminum, Iron, Magnesium, Manganese and Zinc were outside control criteria. Sample is not associated with work order.

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 9:25:00 AM
Project: Camp Hero
Lab ID: 1606524-001 **Matrix:** Soil
Client Sample ID: MP-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene	0.037	U	0.0066	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
1,3-Dinitrobenzene [1,3-DNB]	0.037	U	0.017	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
2,4,6-Trinitrotoluene	0.037	U	0.0042	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
2,4-Dinitrotoluene	0.037	U	0.010	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
2,6-Dinitrotoluene	0.037	U	0.012	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
2-Amino-4,6-dinitrotoluene	0.037	U	0.013	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
2-Nitrotoluene	0.037	U	0.0097	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
3-Nitrotoluene	0.037	U	0.0097	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
4-Amino-2,6-dinitrotoluene	0.037	U	0.0083	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
4-Nitrotoluene	0.037	U	0.014	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.037	U	0.0032	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
Nitrobenzene	0.037	U	0.0084	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.037	U	0.0025	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
Tetryl	0.037	U	0.0027	0.037	0.075	mg/Kg	1	6/29/2016 6:04 AM
Surr: 4-Nitroaniline	99.8			70-130		%Rec	1	6/29/2016 6:04 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
1,2-Dichlorobenzene	0.018	U	0.0077	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
1,3-Dichlorobenzene	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
1,4-Dichlorobenzene	0.018	U	0.0057	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
2,4,5-Trichlorophenol	0.035	U	0.018	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
2,4,6-Trichlorophenol	0.035	U	0.020	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
2,4-Dichlorophenol	0.089	U	0.030	0.089	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
2,4-Dimethyl phenol	0.089	U	0.034	0.089	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.88	mg/Kg-dry	1	6/26/2016 12:18 AM
2,4-Dinitrotoluene	0.018	U	0.015	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
2-Chlorophenol	0.089	U	0.037	0.089	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
2-Methylphenol (o-Cresol)	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
2-Nitroaniline	0.018	U	0.0086	0.018	0.34	mg/Kg-dry	1	6/26/2016 12:18 AM
2-Nitrophenol	0.089	U	0.044	0.089	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
3,3´-Dichlorobenzidine	0.71	UQ	0.45	0.71	1.1	mg/Kg-dry	1	6/26/2016 12:18 AM
3-Nitroaniline	0.018	U	0.012	0.018	0.34	mg/Kg-dry	1	6/26/2016 12:18 AM
3/4-Methylphenol [m/p-Cresol]	0.089	U	0.063	0.089	0.34	mg/Kg-dry	1	6/26/2016 12:18 AM
4,6-Dinitro-2-methylphenol	0.089	U	0.051	0.089	0.34	mg/Kg-dry	1	6/26/2016 12:18 AM
4-Bromophenyl phenyl ether	0.089	U	0.045	0.089	0.21	mg/Kg-dry	1	6/26/2016 12:18 AM
4-Chloro-3-methylphenol	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
4-Chloroaniline [p-Chloroaniline]	0.089	U	0.027	0.089	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
4-Nitroaniline	0.089	U	0.026	0.089	0.34	mg/Kg-dry	1	6/26/2016 12:18 AM
4-Nitrophenol	0.35	UY	0.25	0.35	0.88	mg/Kg-dry	1	6/26/2016 12:18 AM
Benzoic acid	0.35	UYZ	0.14	0.35	1.1	mg/Kg-dry	1	6/26/2016 12:18 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 9:25:00 AM
Project: Camp Hero
Lab ID: 1606524-001 **Matrix:** Soil
Client Sample ID: MP-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzyl alcohol	0.018	U	0.0086	0.018	0.70	mg/Kg-dry	1	6/26/2016 12:18 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Bis(2-chloroethyl) ether	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0081	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Bis(2-ethylhexyl) phthalate	0.035	U	0.031	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Butyl benzyl phthalate	0.035	U	0.021	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Carbazole	0.058	J	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Di-n-butyl phthalate	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Dibenzofuran	0.030	J	0.0090	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Hexachlorobenzene	0.018	U	0.0096	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.053	mg/Kg-dry	1	6/26/2016 12:18 AM
Hexachloroethane	0.018	U	0.0082	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Isophorone	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
N-Nitrosodi-n-propylamine	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
N-Nitrosodimethylamine	0.018	UY	0.0086	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
N-Nitrosodiphenylamine	0.018	U	0.0086	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Pentachlorophenol	0.089	U	0.067	0.089	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Phenol	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	6/26/2016 12:18 AM
Surr: 2,4,6-Tribromophenol	71.7			39-132		%Rec	1	6/26/2016 12:18 AM
Surr: 2-Fluorobiphenyl	62.4			44-115		%Rec	1	6/26/2016 12:18 AM
Surr: 2-Fluorophenol	60.6			35-115		%Rec	1	6/26/2016 12:18 AM
Surr: Nitrobenzene-d5	66.6			37-122		%Rec	1	6/26/2016 12:18 AM
Surr: Phenol-d5	59.7			33-122		%Rec	1	6/26/2016 12:18 AM
Surr: Terphenyl-d14	68.0			54-127		%Rec	1	6/26/2016 12:18 AM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.055		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Acenaphthylene	0.0029		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 3:45 PM
Anthracene	0.16		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Benzo(a)anthracene	0.32		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Benzo(a)pyrene	0.24		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Benzo(b)fluoranthene	0.34		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Benzo(g,h,i)perylene	0.093		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Benzo(k)fluoranthene	0.14		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Chrysene	0.26		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Dibenzo(a,h)anthracene	0.015		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 3:45 PM
Fluoranthene	0.76		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Fluorene	0.062		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Indeno(1,2,3-cd)pyrene	0.12		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Phenanthrene	0.51		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM
Pyrene	0.57		0.028	0.028	0.028	mg/Kg-dry	40	7/28/2016 2:49 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:25:00 AM
Project:	Camp Hero		
Lab ID:	1606524-001	**Matrix:**	Soil
Client Sample ID:	MP-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	89.3			46-115		%Rec	1	7/21/2016 3:45 PM
Surr: Nitrobenzene-d5	100			44-125		%Rec	1	7/21/2016 3:45 PM
Surr: Terphenyl-d14	105			58-133		%Rec	1	7/21/2016 3:45 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	7.2		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 9:25:00 AM
Project: Camp Hero
Lab ID: 1606524-002 **Matrix:** Soil
Client Sample ID: MP-SS02-01 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene	0.039	U	0.0067	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
1,3-Dinitrobenzene [1,3-DNB]	0.039	U	0.017	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
2,4,6-Trinitrotoluene	0.039	U	0.0044	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
2,4-Dinitrotoluene	0.039	U	0.010	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
2,6-Dinitrotoluene	0.039	U	0.012	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
2-Amino-4,6-dinitrotoluene	0.039	U	0.013	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
2-Nitrotoluene	0.039	U	0.0099	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
3-Nitrotoluene	0.039	U	0.010	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
4-Amino-2,6-dinitrotoluene	0.039	U	0.0086	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
4-Nitrotoluene	0.039	U	0.014	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.039	U	0.0033	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
Nitrobenzene	0.039	U	0.0086	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.039	U	0.0026	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
Tetryl	0.039	U	0.0028	0.039	0.077	mg/Kg	1	6/29/2016 10:18 AM
Surr: 4-Nitroaniline	104			70-130		%Rec	1	6/29/2016 10:18 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
1,2-Dichlorobenzene	0.018	U	0.0076	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
1,3-Dichlorobenzene	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
1,4-Dichlorobenzene	0.018	U	0.0056	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
2,4,5-Trichlorophenol	0.035	U	0.017	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
2,4,6-Trichlorophenol	0.035	U	0.020	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
2,4-Dichlorophenol	0.088	U	0.030	0.088	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
2,4-Dimethyl phenol	0.088	U	0.034	0.088	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.87	mg/Kg-dry	1	6/26/2016 12:42 AM
2,4-Dinitrotoluene	0.018	U	0.015	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
2-Chlorophenol	0.088	U	0.037	0.088	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
2-Methylphenol (o-Cresol)	0.088	U	0.038	0.088	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
2-Nitroaniline	0.018	U	0.0085	0.018	0.34	mg/Kg-dry	1	6/26/2016 12:42 AM
2-Nitrophenol	0.088	U	0.043	0.088	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
3,3´-Dichlorobenzidine	0.70	UQ	0.45	0.70	1.1	mg/Kg-dry	1	6/26/2016 12:42 AM
3-Nitroaniline	0.018	U	0.012	0.018	0.34	mg/Kg-dry	1	6/26/2016 12:42 AM
3/4-Methylphenol [m/p-Cresol]	0.088	U	0.063	0.088	0.34	mg/Kg-dry	1	6/26/2016 12:42 AM
4,6-Dinitro-2-methylphenol	0.088	U	0.050	0.088	0.34	mg/Kg-dry	1	6/26/2016 12:42 AM
4-Bromophenyl phenyl ether	0.088	U	0.045	0.088	0.21	mg/Kg-dry	1	6/26/2016 12:42 AM
4-Chloro-3-methylphenol	0.035	U	0.018	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
4-Chloroaniline [p-Chloroaniline]	0.088	U	0.026	0.088	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
4-Nitroaniline	0.088	U	0.025	0.088	0.34	mg/Kg-dry	1	6/26/2016 12:42 AM
4-Nitrophenol	0.35	UY	0.25	0.35	0.87	mg/Kg-dry	1	6/26/2016 12:42 AM
Benzoic acid	0.35	UYZ	0.14	0.35	1.1	mg/Kg-dry	1	6/26/2016 12:42 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 9:25:00 AM
Project: Camp Hero
Lab ID: 1606524-002 **Matrix:** Soil
Client Sample ID: MP-SS02-01 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzyl alcohol	0.018	U	0.0085	0.018	0.69	mg/Kg-dry	1	6/26/2016 12:42 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Bis(2-chloroethyl) ether	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0080	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Bis(2-ethylhexyl) phthalate	0.035	U	0.031	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Butyl benzyl phthalate	0.035	U	0.021	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Di-n-butyl phthalate	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Dibenzofuran	0.018	U	0.0089	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Hexachlorobenzene	0.018	U	0.0095	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.053	mg/Kg-dry	1	6/26/2016 12:42 AM
Hexachloroethane	0.018	U	0.0081	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Isophorone	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
N-Nitrosodi-n-propylamine	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
N-Nitrosodimethylamine	0.018	UY	0.0085	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
N-Nitrosodiphenylamine	0.018	U	0.0085	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Pentachlorophenol	0.088	U	0.066	0.088	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Phenol	0.088	U	0.038	0.088	0.17	mg/Kg-dry	1	6/26/2016 12:42 AM
Surr: 2,4,6-Tribromophenol	92.5			39-132		%Rec	1	6/26/2016 12:42 AM
Surr: 2-Fluorobiphenyl	79.0			44-115		%Rec	1	6/26/2016 12:42 AM
Surr: 2-Fluorophenol	77.7			35-115		%Rec	1	6/26/2016 12:42 AM
Surr: Nitrobenzene-d5	81.4			37-122		%Rec	1	6/26/2016 12:42 AM
Surr: Phenol-d5	76.4			33-122		%Rec	1	6/26/2016 12:42 AM
Surr: Terphenyl-d14	83.0			54-127		%Rec	1	6/26/2016 12:42 AM

Semi-Volatile Organic Compounds **Method: 8270D-SIM-STAR** **SW3550C** **Analyst: STM**

Acenaphthene	0.0071		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 4:13 PM
Acenaphthylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 4:13 PM
Anthracene	0.018		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 4:13 PM
Benzo(a)anthracene	0.046		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/28/2016 3:17 PM
Benzo(a)pyrene	0.032		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/28/2016 3:17 PM
Benzo(b)fluoranthene	0.054		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/28/2016 3:17 PM
Benzo(g,h,i)perylene	0.022		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 4:13 PM
Benzo(k)fluoranthene	0.021		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 4:13 PM
Chrysene	0.033		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/28/2016 3:17 PM
Dibenzo(a,h)anthracene	0.0096		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 4:13 PM
Fluoranthene	0.099		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/28/2016 3:17 PM
Fluorene	0.0072		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 4:13 PM
Indeno(1,2,3-cd)pyrene	0.022		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 4:13 PM
Phenanthrene	0.058		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/28/2016 3:17 PM
Pyrene	0.074		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/28/2016 3:17 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:25:00 AM
Project:	Camp Hero		
Lab ID:	1606524-002	**Matrix:**	Soil
Client Sample ID:	MP-SS02-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	82.1			46-115		%Rec	1	7/21/2016 4:13 PM
Surr: Nitrobenzene-d5	80.8			44-125		%Rec	1	7/21/2016 4:13 PM
Surr: Terphenyl-d14	95.9			58-133		%Rec	1	7/21/2016 4:13 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	7.5		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 11:30:00 AM
Project: Camp Hero
Lab ID: 1606524-003 **Matrix:** Soil
Client Sample ID: MP-SB02-11

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene	0.039	U	0.0068	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
1,3-Dinitrobenzene [1,3-DNB]	0.039	U	0.017	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
2,4,6-Trinitrotoluene	0.039	U	0.0044	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
2,4-Dinitrotoluene	0.039	U	0.010	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
2,6-Dinitrotoluene	0.039	U	0.012	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
2-Amino-4,6-dinitrotoluene	0.039	U	0.013	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
2-Nitrotoluene	0.039	U	0.010	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
3-Nitrotoluene	0.039	U	0.010	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
4-Amino-2,6-dinitrotoluene	0.039	U	0.0086	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
4-Nitrotoluene	0.039	U	0.014	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.039	U	0.0033	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
Nitrobenzene	0.039	U	0.0086	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.039	U	0.0026	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
Tetryl	0.039	U	0.0028	0.039	0.078	mg/Kg	1	6/29/2016 11:42 AM
Surr: 4-Nitroaniline	100			70-130		%Rec	1	6/29/2016 11:42 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
1,2-Dichlorobenzene	0.018	U	0.0077	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
1,3-Dichlorobenzene	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
1,4-Dichlorobenzene	0.018	U	0.0057	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
2,4-Dichlorophenol	0.089	U	0.031	0.089	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
2,4-Dimethyl phenol	0.089	U	0.034	0.089	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.89	mg/Kg-dry	1	6/26/2016 1:07 AM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
2-Chlorophenol	0.089	U	0.037	0.089	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
2-Methylphenol (o-Cresol)	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
2-Nitroaniline	0.018	U	0.0087	0.018	0.34	mg/Kg-dry	1	6/26/2016 1:07 AM
2-Nitrophenol	0.089	U	0.044	0.089	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
3,3´-Dichlorobenzidine	0.71	UQ	0.46	0.71	1.1	mg/Kg-dry	1	6/26/2016 1:07 AM
3-Nitroaniline	0.018	U	0.012	0.018	0.34	mg/Kg-dry	1	6/26/2016 1:07 AM
3/4-Methylphenol [m/p-Cresol]	0.089	U	0.064	0.089	0.34	mg/Kg-dry	1	6/26/2016 1:07 AM
4,6-Dinitro-2-methylphenol	0.089	U	0.051	0.089	0.34	mg/Kg-dry	1	6/26/2016 1:07 AM
4-Bromophenyl phenyl ether	0.089	U	0.045	0.089	0.21	mg/Kg-dry	1	6/26/2016 1:07 AM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
4-Chloroaniline [p-Chloroaniline]	0.089	U	0.027	0.089	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
4-Nitroaniline	0.089	U	0.026	0.089	0.34	mg/Kg-dry	1	6/26/2016 1:07 AM
4-Nitrophenol	0.36	UY	0.26	0.36	0.89	mg/Kg-dry	1	6/26/2016 1:07 AM
Benzoic acid	0.36	UYZ	0.14	0.36	1.1	mg/Kg-dry	1	6/26/2016 1:07 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 11:30:00 AM
Project: Camp Hero
Lab ID: 1606524-003 **Matrix:** Soil
Client Sample ID: MP-SB02-11

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzyl alcohol	0.018	U	0.0086	0.018	0.71	mg/Kg-dry	1	6/26/2016 1:07 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0081	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Bis(2-ethylhexyl) phthalate	0.036	U	0.031	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Dibenzofuran	0.018	U	0.0091	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Hexachlorobenzene	0.018	U	0.0097	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.053	mg/Kg-dry	1	6/26/2016 1:07 AM
Hexachloroethane	0.018	U	0.0082	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Isophorone	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
N-Nitrosodi-n-propylamine	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
N-Nitrosodimethylamine	0.018	UY	0.0087	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
N-Nitrosodiphenylamine	0.018	U	0.0086	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Pentachlorophenol	0.089	U	0.067	0.089	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Phenol	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	6/26/2016 1:07 AM
Surr: 2,4,6-Tribromophenol	90.0			39-132		%Rec	1	6/26/2016 1:07 AM
Surr: 2-Fluorobiphenyl	79.4			44-115		%Rec	1	6/26/2016 1:07 AM
Surr: 2-Fluorophenol	77.7			35-115		%Rec	1	6/26/2016 1:07 AM
Surr: Nitrobenzene-d5	65.6			37-122		%Rec	1	6/26/2016 1:07 AM
Surr: Phenol-d5	77.6			33-122		%Rec	1	6/26/2016 1:07 AM
Surr: Terphenyl-d14	85.4			54-127		%Rec	1	6/26/2016 1:07 AM

Semi-Volatile Organic Compounds **Method: 8270D-SIM-SW3550C STAR** **Analyst: STM**

Acenaphthene	0.00072		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Acenaphthylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Anthracene	0.0023		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Benzo(a)anthracene	0.0072		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Benzo(a)pyrene	0.0054		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Benzo(b)fluoranthene	0.0089		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Benzo(g,h,i)perylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Benzo(k)fluoranthene	0.0042		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Chrysene	0.0053		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Dibenzo(a,h)anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Fluoranthene	0.014		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Fluorene	0.00077		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Indeno(1,2,3-cd)pyrene	0.0017		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Phenanthrene	0.0082		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM
Pyrene	0.013		0.00071	0.00071	0.00071	mg/Kg-dry	1	8/1/2016 9:52 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 11:30:00 AM
Project:	Camp Hero		
Lab ID:	1606524-003	**Matrix:**	Soil
Client Sample ID:	MP-SB02-11		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	34.3	Q		46-115		%Rec	1	8/1/2016 9:52 PM
Surr: Nitrobenzene-d5	35.8	Q		44-125		%Rec	1	8/1/2016 9:52 PM
Surr: Terphenyl-d14	45.6	Q		58-133		%Rec	1	8/1/2016 9:52 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	8.0		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 11:15:00 AM
Project:	Camp Hero		
Lab ID:	1606524-004	**Matrix:**	Soil
Client Sample ID:	MP-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0074	U	0.0033	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:51 PM
Aroclor 1221	0.0074	U	0.0033	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:51 PM
Aroclor 1232	0.0074	U	0.0050	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:51 PM
Aroclor 1242	0.0074	U	0.0041	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:51 PM
Aroclor 1248	0.0074	U	0.0039	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:51 PM
Aroclor 1254	0.0074	U	0.0047	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:51 PM
Aroclor 1260	0.0074	U	0.0032	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:51 PM
Aroclor 1262	0.0074	U	0.0032	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:51 PM
Aroclor 1268	0.0074	U	0.0027	0.0074	0.036	mg/Kg-dry	1	7/12/2016 9:51 PM
Surr: Tetrachloro-m-xylene	82.3			44-130		%Rec	1	7/12/2016 9:51 PM
Surr: Decachlorobiphenyl	96.3			60-125		%Rec	1	7/12/2016 9:51 PM
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene	0.040	U	0.0069	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
1,3-Dinitrobenzene [1,3-DNB]	0.040	U	0.018	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
2,4,6-Trinitrotoluene	0.040	U	0.0045	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
2,4-Dinitrotoluene	0.040	U	0.011	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
2,6-Dinitrotoluene	0.040	U	0.013	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
2-Amino-4,6-dinitrotoluene	0.040	U	0.014	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
2-Nitrotoluene	0.040	U	0.010	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
3-Nitrotoluene	0.040	U	0.010	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
4-Amino-2,6-dinitrotoluene	0.040	U	0.0088	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
4-Nitrotoluene	0.040	U	0.015	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.040	U	0.0033	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
Nitrobenzene	0.040	U	0.0088	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.040	U	0.0027	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
Tetryl	0.040	U	0.0029	0.040	0.079	mg/Kg	1	6/29/2016 1:07 PM
Surr: 4-Nitroaniline	100			70-130		%Rec	1	6/29/2016 1:07 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
2,4-Dichlorophenol	0.090	U	0.031	0.090	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
2,4-Dimethyl phenol	0.090	U	0.034	0.090	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.90	mg/Kg-dry	1	6/26/2016 1:32 AM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
2-Chlorophenol	0.090	U	0.038	0.090	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
2-Methylphenol (o-Cresol)	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606524-004 **Matrix:** Soil
Client Sample ID: MP-SS03-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2-Nitroaniline	0.018	U	0.0088	0.018	0.35	mg/Kg-dry	1	6/26/2016 1:32 AM
2-Nitrophenol	0.090	U	0.045	0.090	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
3,3´-Dichlorobenzidine	0.72	UQ	0.46	0.72	1.1	mg/Kg-dry	1	6/26/2016 1:32 AM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	6/26/2016 1:32 AM
3/4-Methylphenol [m/p-Cresol]	0.090	U	0.064	0.090	0.35	mg/Kg-dry	1	6/26/2016 1:32 AM
4,6-Dinitro-2-methylphenol	0.090	U	0.052	0.090	0.35	mg/Kg-dry	1	6/26/2016 1:32 AM
4-Bromophenyl phenyl ether	0.090	U	0.046	0.090	0.22	mg/Kg-dry	1	6/26/2016 1:32 AM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
4-Chloroaniline [p-Chloroaniline]	0.090	U	0.027	0.090	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
4-Nitroaniline	0.090	U	0.026	0.090	0.35	mg/Kg-dry	1	6/26/2016 1:32 AM
4-Nitrophenol	0.36	UY	0.26	0.36	0.90	mg/Kg-dry	1	6/26/2016 1:32 AM
Benzoic acid	0.36	UYZ	0.15	0.36	1.1	mg/Kg-dry	1	6/26/2016 1:32 AM
Benzyl alcohol	0.018	U	0.0087	0.018	0.71	mg/Kg-dry	1	6/26/2016 1:32 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0082	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.054	mg/Kg-dry	1	6/26/2016 1:32 AM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
N-Nitrosodi-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
N-Nitrosodimethylamine	0.018	UY	0.0088	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
N-Nitrosodiphenylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Pentachlorophenol	0.090	U	0.068	0.090	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Phenol	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	6/26/2016 1:32 AM
Surr: 2,4,6-Tribromophenol	65.7			39-132		%Rec	1	6/26/2016 1:32 AM
Surr: 2-Fluorobiphenyl	55.4			44-115		%Rec	1	6/26/2016 1:32 AM
Surr: 2-Fluorophenol	52.4			35-115		%Rec	1	6/26/2016 1:32 AM
Surr: Nitrobenzene-d5	55.8			37-122		%Rec	1	6/26/2016 1:32 AM
Surr: Phenol-d5	53.3			33-122		%Rec	1	6/26/2016 1:32 AM
Surr: Terphenyl-d14	61.4			54-127		%Rec	1	6/26/2016 1:32 AM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.0037		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 11:15:00 AM
Project:	Camp Hero		
Lab ID:	1606524-004	**Matrix:**	Soil
Client Sample ID:	MP-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Acenaphthylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Anthracene	0.0055		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Benzo(a)anthracene	0.025		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Benzo(a)pyrene	0.020		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Benzo(b)fluoranthene	0.026		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Benzo(g,h,i)perylene	0.0022		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Benzo(k)fluoranthene	0.014		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Chrysene	0.021		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Fluoranthene	0.055		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Fluorene	0.0033		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Indeno(1,2,3-cd)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Phenanthrene	0.033		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Pyrene	0.044		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 1:29 PM
Surr: 2-Fluorobiphenyl	104			46-115		%Rec	3	8/2/2016 1:29 PM
Surr: Nitrobenzene-d5	110			44-125		%Rec	3	8/2/2016 1:29 PM
Surr: Terphenyl-d14	119			58-133		%Rec	3	8/2/2016 1:29 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.7		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 11:30:00 AM
Project: Camp Hero
Lab ID: 1606524-005 **Matrix:** Soil
Client Sample ID: MP-SB03-09

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/12/2016 10:16 PM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/12/2016 10:16 PM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/12/2016 10:16 PM
Aroclor 1242	0.0073	U	0.0040	0.0073	0.036	mg/Kg-dry	1	7/12/2016 10:16 PM
Aroclor 1248	0.0073	U	0.0038	0.0073	0.036	mg/Kg-dry	1	7/12/2016 10:16 PM
Aroclor 1254	0.0073	U	0.0046	0.0073	0.036	mg/Kg-dry	1	7/12/2016 10:16 PM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/12/2016 10:16 PM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/12/2016 10:16 PM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/12/2016 10:16 PM
Surr: Tetrachloro-m-xylene	93.3			44-130		%Rec	1	7/12/2016 10:16 PM
Surr: Decachlorobiphenyl	110			60-125		%Rec	1	7/12/2016 10:16 PM
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene	0.039	U	0.0068	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
1,3-Dinitrobenzene [1,3-DNB]	0.039	U	0.017	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
2,4,6-Trinitrotoluene	0.039	U	0.0044	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
2,4-Dinitrotoluene	0.039	U	0.011	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
2,6-Dinitrotoluene	0.039	U	0.012	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
2-Amino-4,6-dinitrotoluene	0.039	U	0.013	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
2-Nitrotoluene	0.039	U	0.010	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
3-Nitrotoluene	0.039	U	0.010	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
4-Amino-2,6-dinitrotoluene	0.039	U	0.0087	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
4-Nitrotoluene	0.039	U	0.014	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.039	U	0.0033	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
Nitrobenzene	0.039	U	0.0087	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.039	U	0.0026	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
Tetryl	0.039	U	0.0028	0.039	0.078	mg/Kg	1	6/29/2016 2:31 PM
Surr: 4-Nitroaniline	110			70-130		%Rec	1	6/29/2016 2:31 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
1,2-Dichlorobenzene	0.018	U	0.0077	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
1,3-Dichlorobenzene	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
1,4-Dichlorobenzene	0.018	U	0.0057	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
2,4,6-Trichlorophenol	0.036	UY	0.020	0.036	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
2,4-Dichlorophenol	0.090	U	0.031	0.090	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
2,4-Dimethyl phenol	0.090	U	0.034	0.090	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.89	mg/Kg-dry	1	7/8/2016 11:14 PM
2,4-Dinitrotoluene	0.018	UY	0.016	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
2-Chlorophenol	0.090	U	0.037	0.090	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
2-Methylphenol (o-Cresol)	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 11:30:00 AM
Project: Camp Hero
Lab ID: 1606524-005 **Matrix:** Soil
Client Sample ID: MP-SB03-09

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2-Nitroaniline	0.018	UY	0.0087	0.018	0.34	mg/Kg-dry	1	7/8/2016 11:14 PM
2-Nitrophenol	0.090	UY	0.044	0.090	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
3,3´-Dichlorobenzidine	0.72	U	0.46	0.72	1.1	mg/Kg-dry	1	7/8/2016 11:14 PM
3-Nitroaniline	0.018	UY	0.013	0.018	0.34	mg/Kg-dry	1	7/8/2016 11:14 PM
3/4-Methylphenol [m/p-Cresol]	0.090	U	0.064	0.090	0.34	mg/Kg-dry	1	7/8/2016 11:14 PM
4,6-Dinitro-2-methylphenol	0.090	UY	0.052	0.090	0.34	mg/Kg-dry	1	7/8/2016 11:14 PM
4-Bromophenyl phenyl ether	0.090	U	0.046	0.090	0.21	mg/Kg-dry	1	7/8/2016 11:14 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
4-Chloroaniline [p-Chloroaniline]	0.090	U	0.027	0.090	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
4-Nitroaniline	0.090	UY	0.026	0.090	0.34	mg/Kg-dry	1	7/8/2016 11:14 PM
4-Nitrophenol	0.36	UY	0.26	0.36	0.89	mg/Kg-dry	1	7/8/2016 11:14 PM
Benzoic acid	0.36	U	0.14	0.36	1.1	mg/Kg-dry	1	7/8/2016 11:14 PM
Benzyl alcohol	0.018	U	0.0086	0.018	0.71	mg/Kg-dry	1	7/8/2016 11:14 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0082	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Dibenzofuran	0.018	U	0.0091	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Hexachlorobenzene	0.018	U	0.0097	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.054	mg/Kg-dry	1	7/8/2016 11:14 PM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Isophorone	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
N-Nitrosodi-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
N-Nitrosodimethylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
N-Nitrosodiphenylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Pentachlorophenol	0.090	U	0.067	0.090	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Phenol	0.090	U	0.038	0.090	0.17	mg/Kg-dry	1	7/8/2016 11:14 PM
Surr: 2,4,6-Tribromophenol	59.5			39-132		%Rec	1	7/8/2016 11:14 PM
Surr: 2-Fluorobiphenyl	68.6			44-115		%Rec	1	7/8/2016 11:14 PM
Surr: 2-Fluorophenol	57.6			35-115		%Rec	1	7/8/2016 11:14 PM
Surr: Nitrobenzene-d5	76.1			37-122		%Rec	1	7/8/2016 11:14 PM
Surr: Phenol-d5	59.1			33-122		%Rec	1	7/8/2016 11:14 PM
Surr: Terphenyl-d14	68.0			54-127		%Rec	1	7/8/2016 11:14 PM
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 11:30:00 AM
Project:	Camp Hero		
Lab ID:	1606524-005	**Matrix:**	Soil
Client Sample ID:	MP-SB03-09		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzo(a)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Benzo(a)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Benzo(b)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Benzo(g,h,i)perylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Benzo(k)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Chrysene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Fluorene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Indeno(1,2,3-cd)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Phenanthrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/2/2016 3:49 PM
Surr: 2-Fluorobiphenyl	101			46-115		%Rec	1	8/2/2016 3:49 PM
Surr: Nitrobenzene-d5	104			44-125		%Rec	1	8/2/2016 3:49 PM
Surr: Terphenyl-d14	114			58-133		%Rec	1	8/2/2016 3:49 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	8.5		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:05:00 AM
Project:	Camp Hero		
Lab ID:	1606524-006	**Matrix:**	Soil
Client Sample ID:	EFO-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene	0.039	U	0.0068	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
1,3-Dinitrobenzene [1,3-DNB]	0.039	U	0.017	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
2,4,6-Trinitrotoluene	0.039	U	0.0044	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
2,4-Dinitrotoluene	0.039	U	0.011	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
2,6-Dinitrotoluene	0.039	UX	0.012	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
2-Amino-4,6-dinitrotoluene	0.039	U	0.013	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
2-Nitrotoluene	0.039	U	0.010	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
3-Nitrotoluene	0.039	U	0.010	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
4-Amino-2,6-dinitrotoluene	0.039	U	0.0087	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
4-Nitrotoluene	0.039	U	0.014	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.039	U	0.0033	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
Nitrobenzene	0.039	U	0.0087	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.039	U	0.0026	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
Tetryl	0.039	U	0.0028	0.039	0.078	mg/Kg	1	6/29/2016 3:56 PM
Surr: 4-Nitroaniline	99.2			70-130		%Rec	1	6/29/2016 3:56 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	8.4		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:15:00 AM
Project:	Camp Hero		
Lab ID:	1606524-007	**Matrix:**	Soil
Client Sample ID:	EFO-SB01-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene	0.038	U	0.0066	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
1,3-Dinitrobenzene [1,3-DNB]	0.038	U	0.017	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
2,4,6-Trinitrotoluene	0.038	U	0.0043	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
2,4-Dinitrotoluene	0.038	U	0.010	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
2,6-Dinitrotoluene	0.038	U	0.012	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
2-Amino-4,6-dinitrotoluene	0.038	U	0.013	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
2-Nitrotoluene	0.038	U	0.0097	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
3-Nitrotoluene	0.038	U	0.0098	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
4-Amino-2,6-dinitrotoluene	0.038	U	0.0084	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
4-Nitrotoluene	0.038	U	0.014	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.038	U	0.0032	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
Nitrobenzene	0.038	U	0.0084	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.038	U	0.0026	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
Tetryl	0.038	U	0.0027	0.038	0.075	mg/Kg	1	6/29/2016 8:10 PM
Surr: 4-Nitroaniline	103			70-130		%Rec	1	6/29/2016 8:10 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.1		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:50:00 AM
Project:	Camp Hero		
Lab ID:	1606524-008	**Matrix:**	Soil
Client Sample ID:	H16-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0089	U	0.0040	0.0089	0.044	mg/Kg-dry	1	7/12/2016 10:40 PM
Aroclor 1221	0.0089	U	0.0040	0.0089	0.044	mg/Kg-dry	1	7/12/2016 10:40 PM
Aroclor 1232	0.0089	U	0.0060	0.0089	0.044	mg/Kg-dry	1	7/12/2016 10:40 PM
Aroclor 1242	0.0089	U	0.0050	0.0089	0.044	mg/Kg-dry	1	7/12/2016 10:40 PM
Aroclor 1248	0.0089	U	0.0047	0.0089	0.044	mg/Kg-dry	1	7/12/2016 10:40 PM
Aroclor 1254	0.0089	U	0.0057	0.0089	0.044	mg/Kg-dry	1	7/12/2016 10:40 PM
Aroclor 1260	0.0089	U	0.0039	0.0089	0.044	mg/Kg-dry	1	7/12/2016 10:40 PM
Aroclor 1262	0.0089	U	0.0039	0.0089	0.044	mg/Kg-dry	1	7/12/2016 10:40 PM
Aroclor 1268	0.0089	U	0.0033	0.0089	0.044	mg/Kg-dry	1	7/12/2016 10:40 PM
Surr: Tetrachloro-m-xylene	60.7			44-130		%Rec	1	7/12/2016 10:40 PM
Surr: Decachlorobiphenyl	73.6			60-125		%Rec	1	7/12/2016 10:40 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	14,000		66	180	440	mg/Kg-dry	100	7/5/2016 3:33 PM
Antimony	4.1		0.33	0.44	0.88	mg/Kg-dry	1	7/5/2016 12:57 PM
Arsenic	2.3		0.64	0.88	1.8	mg/Kg-dry	1	7/5/2016 12:57 PM
Barium	34		0.26	4.4	8.8	mg/Kg-dry	1	7/5/2016 12:57 PM
Beryllium	0.23		0.011	0.044	0.22	mg/Kg-dry	1	7/5/2016 12:57 PM
Cadmium	0.13	J	0.029	0.044	0.22	mg/Kg-dry	1	7/5/2016 12:57 PM
Calcium	1,200		2.6	8.8	44	mg/Kg-dry	1	7/5/2016 12:57 PM
Chromium	18		0.072	0.35	0.44	mg/Kg-dry	1	7/5/2016 12:57 PM
Cobalt	4.0		0.079	0.22	0.88	mg/Kg-dry	1	7/5/2016 12:57 PM
Copper	38		0.36	0.88	4.4	mg/Kg-dry	1	7/5/2016 12:57 PM
Iron	12,000		27	44	130	mg/Kg-dry	10	7/5/2016 3:07 PM
Lead	20		0.55	0.88	4.4	mg/Kg-dry	1	7/5/2016 12:57 PM
Magnesium	2,600		31	44	440	mg/Kg-dry	10	7/5/2016 3:07 PM
Manganese	240		1.6	2.2	8.8	mg/Kg-dry	10	7/5/2016 3:07 PM
Nickel	10		0.25	0.88	4.4	mg/Kg-dry	1	7/5/2016 12:57 PM
Potassium	1,200		2.0	8.8	18	mg/Kg-dry	1	7/5/2016 12:57 PM
Selenium	1.3	U	1.0	1.3	1.8	mg/Kg-dry	1	7/5/2016 12:57 PM
Silver	0.22	U	0.072	0.22	0.88	mg/Kg-dry	1	7/5/2016 12:57 PM
Sodium	130		1.8	4.4	44	mg/Kg-dry	1	7/5/2016 12:57 PM
Vanadium	24		0.11	0.88	2.2	mg/Kg-dry	1	7/5/2016 12:57 PM
Zinc	31		0.34	0.44	4.4	mg/Kg-dry	1	7/5/2016 12:57 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.13	JG	0.043	0.044	0.18	mg/Kg-dry	10	7/21/2016 2:11 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.22	U	0.12	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
1,2-Dichlorobenzene	0.22	U	0.095	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
1,3-Dichlorobenzene	0.22	U	0.092	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
1,4-Dichlorobenzene	0.22	U	0.071	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
2,4,5-Trichlorophenol	0.44	U	0.22	0.44	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 10:50:00 AM
Project: Camp Hero
Lab ID: 1606524-008 **Matrix:** Soil
Client Sample ID: H16-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.44	U	0.25	0.44	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
2,4-Dichlorophenol	1.1	U	0.38	1.1	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
2,4-Dimethyl phenol	1.1	U	0.42	1.1	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
2,4-Dinitrophenol	2.2	U	1.3	2.2	11	mg/Kg-dry	10	8/3/2016 4:26 PM
2,4-Dinitrotoluene	0.22	U	0.19	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
2,6-Dinitrotoluene	0.22	U	0.21	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
2-Chloronaphthalene	0.22	U	0.15	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
2-Chlorophenol	1.1	U	0.46	1.1	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
2-Methylphenol (o-Cresol)	1.1	U	0.48	1.1	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
2-Nitroaniline	0.22	U	0.11	0.22	4.2	mg/Kg-dry	10	8/3/2016 4:26 PM
2-Nitrophenol	1.1	U	0.55	1.1	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
3,3´-Dichlorobenzidine	8.8	U	5.7	8.8	13	mg/Kg-dry	10	8/3/2016 4:26 PM
3-Nitroaniline	0.22	U	0.15	0.22	4.2	mg/Kg-dry	10	8/3/2016 4:26 PM
3/4-Methylphenol [m/p-Cresol]	1.1	U	0.79	1.1	4.2	mg/Kg-dry	10	8/3/2016 4:26 PM
4,6-Dinitro-2-methylphenol	1.1	U	0.64	1.1	4.2	mg/Kg-dry	10	8/3/2016 4:26 PM
4-Bromophenyl phenyl ether	1.1	U	0.56	1.1	2.7	mg/Kg-dry	10	8/3/2016 4:26 PM
4-Chloro-3-methylphenol	0.44	U	0.23	0.44	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
4-Chloroaniline [p-Chloroaniline]	1.1	U	0.33	1.1	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
4-Chlorophenyl phenyl ether	0.22	U	0.13	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
4-Nitroaniline	1.1	U	0.32	1.1	4.2	mg/Kg-dry	10	8/3/2016 4:26 PM
4-Nitrophenol	4.4	U	3.2	4.4	11	mg/Kg-dry	10	8/3/2016 4:26 PM
Benzoic acid	4.4	UY	1.8	4.4	13	mg/Kg-dry	10	8/3/2016 4:26 PM
Benzyl alcohol	0.22	U	0.11	0.22	8.7	mg/Kg-dry	10	8/3/2016 4:26 PM
Bis(2-chloroethoxy) methane	0.22	U	0.092	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Bis(2-chloroethyl) ether	0.44	U	0.24	0.44	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Bis(2-chloroisopropyl)ether	0.22	UYZ	0.10	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Bis(2-ethylhexyl) phthalate	0.44	U	0.39	0.44	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Butyl benzyl phthalate	0.44	U	0.26	0.44	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Carbazole	0.89	J	0.15	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Di-n-butyl phthalate	0.44	U	0.24	0.44	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Di-n-octyl phthalate	0.22	U	0.15	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Dibenzofuran	0.16	J	0.11	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Diethyl phthalate	0.22	U	0.16	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Dimethyl phthalate	0.22	U	0.15	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Hexachlorobenzene	0.22	U	0.12	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Hexachlorobutadiene	0.22	U	0.20	0.22	0.66	mg/Kg-dry	10	8/3/2016 4:26 PM
Hexachloroethane	0.22	U	0.10	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Isophorone	0.22	U	0.092	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
N-Nitrosodi-n-propylamine	0.22	U	0.12	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
N-Nitrosodimethylamine	0.22	U	0.11	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
N-Nitrosodiphenylamine	0.22	U	0.11	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Nitrobenzene	0.22	U	0.14	0.22	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Pentachlorophenol	1.1	UY	0.83	1.1	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Phenol	1.1	U	0.47	1.1	2.1	mg/Kg-dry	10	8/3/2016 4:26 PM
Surr: 2,4,6-Tribromophenol	127	J		39-132		%Rec	10	8/3/2016 4:26 PM
Surr: 2-Fluorobiphenyl	82.8	J		44-115		%Rec	10	8/3/2016 4:26 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:50:00 AM
Project:	Camp Hero		
Lab ID:	1606524-008	**Matrix:**	Soil
Client Sample ID:	H16-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	0	QU		35-115		%Rec	10	8/3/2016 4:26 PM
Surr: Nitrobenzene-d5	82.4	J		37-122		%Rec	10	8/3/2016 4:26 PM
Surr: Phenol-d5	0	QU		33-122		%Rec	10	8/3/2016 4:26 PM
Surr: Terphenyl-d14	91.6	J		54-127		%Rec	10	8/3/2016 4:26 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.18	U	0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
2-Methylnaphthalene	0.18	U	0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Acenaphthene	0.42		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Acenaphthylene	0.18	U	0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Anthracene	1.2		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Benzo(a)anthracene	7.3		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Benzo(a)pyrene	7.0		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Benzo(b)fluoranthene	12		1.8	1.8	1.8	mg/Kg-dry	2000	8/2/2016 4:17 PM
Benzo(g,h,i)perylene	2.5		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Benzo(k)fluoranthene	4.6		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Chrysene	7.4		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Dibenzo(a,h)anthracene	0.26		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Fluoranthene	18		1.8	1.8	1.8	mg/Kg-dry	2000	8/2/2016 4:17 PM
Fluorene	0.48		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Indeno(1,2,3-cd)pyrene	2.5		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Naphthalene	0.18	U	0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Phenanthrene	5.8		0.18	0.18	0.18	mg/Kg-dry	200	8/1/2016 7:06 PM
Pyrene	15		1.8	1.8	1.8	mg/Kg-dry	2000	8/2/2016 4:17 PM
Surr: 2-Fluorobiphenyl	0	QU		46-115		%Rec	200	8/1/2016 7:06 PM
Surr: Nitrobenzene-d5	0	QU		44-125		%Rec	200	8/1/2016 7:06 PM
Surr: Terphenyl-d14	0	QU		58-133		%Rec	200	8/1/2016 7:06 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	26		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606524-009	**Matrix:**	Soil
Client Sample ID:	H16-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0082	U	0.0037	0.0082	0.040	mg/Kg-dry	1	7/12/2016 11:04 PM
Aroclor 1221	0.0082	U	0.0037	0.0082	0.040	mg/Kg-dry	1	7/12/2016 11:04 PM
Aroclor 1232	0.0082	U	0.0055	0.0082	0.040	mg/Kg-dry	1	7/12/2016 11:04 PM
Aroclor 1242	0.0082	U	0.0046	0.0082	0.040	mg/Kg-dry	1	7/12/2016 11:04 PM
Aroclor 1248	0.0082	U	0.0043	0.0082	0.040	mg/Kg-dry	1	7/12/2016 11:04 PM
Aroclor 1254	0.0082	U	0.0052	0.0082	0.040	mg/Kg-dry	1	7/12/2016 11:04 PM
Aroclor 1260	0.0082	U	0.0036	0.0082	0.040	mg/Kg-dry	1	7/12/2016 11:04 PM
Aroclor 1262	0.0082	U	0.0036	0.0082	0.040	mg/Kg-dry	1	7/12/2016 11:04 PM
Aroclor 1268	0.0082	U	0.0030	0.0082	0.040	mg/Kg-dry	1	7/12/2016 11:04 PM
Surr: Tetrachloro-m-xylene	63.9			44-130		%Rec	1	7/12/2016 11:04 PM
Surr: Decachlorobiphenyl	70.4			60-125		%Rec	1	7/12/2016 11:04 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	13,000		60	160	400	mg/Kg-dry	100	7/5/2016 3:34 PM
Antimony	1.9		0.30	0.40	0.80	mg/Kg-dry	1	7/5/2016 12:59 PM
Arsenic	1.3	J	0.58	0.80	1.6	mg/Kg-dry	1	7/5/2016 12:59 PM
Barium	23		0.24	4.0	8.0	mg/Kg-dry	1	7/5/2016 12:59 PM
Beryllium	0.12	J	0.010	0.040	0.20	mg/Kg-dry	1	7/5/2016 12:59 PM
Cadmium	0.066	J	0.026	0.040	0.20	mg/Kg-dry	1	7/5/2016 12:59 PM
Calcium	830		2.4	8.0	40	mg/Kg-dry	1	7/5/2016 12:59 PM
Chromium	14		0.066	0.32	0.40	mg/Kg-dry	1	7/5/2016 12:59 PM
Cobalt	1.9		0.072	0.20	0.80	mg/Kg-dry	1	7/5/2016 12:59 PM
Copper	16		0.33	0.80	4.0	mg/Kg-dry	1	7/5/2016 12:59 PM
Iron	5,000		25	40	120	mg/Kg-dry	10	7/5/2016 3:08 PM
Lead	5.0		0.50	0.80	4.0	mg/Kg-dry	1	7/5/2016 12:59 PM
Magnesium	2,000		2.8	4.0	40	mg/Kg-dry	1	7/5/2016 12:59 PM
Manganese	82		0.15	0.20	0.80	mg/Kg-dry	1	7/5/2016 12:59 PM
Nickel	7.0		0.23	0.80	4.0	mg/Kg-dry	1	7/5/2016 12:59 PM
Potassium	820		1.9	8.0	16	mg/Kg-dry	1	7/5/2016 12:59 PM
Selenium	1.2	U	0.93	1.2	1.6	mg/Kg-dry	1	7/5/2016 12:59 PM
Silver	0.20	U	0.066	0.20	0.80	mg/Kg-dry	1	7/5/2016 12:59 PM
Sodium	110		1.6	4.0	40	mg/Kg-dry	1	7/5/2016 12:59 PM
Vanadium	14		0.10	0.80	2.0	mg/Kg-dry	1	7/5/2016 12:59 PM
Zinc	18		0.31	0.40	4.0	mg/Kg-dry	1	7/5/2016 12:59 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.075	J	0.039	0.040	0.16	mg/Kg-dry	10	7/21/2016 2:27 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.020	U	0.011	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
1,2-Dichlorobenzene	0.020	U	0.0088	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
1,3-Dichlorobenzene	0.020	U	0.0085	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
1,4-Dichlorobenzene	0.020	U	0.0065	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
2,4,5-Trichlorophenol	0.041	U	0.020	0.041	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606524-009 **Matrix:** Soil
Client Sample ID: H16-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.041	UY	0.023	0.041	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
2,4-Dichlorophenol	0.10	U	0.035	0.10	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
2,4-Dimethyl phenol	0.10	U	0.039	0.10	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
2,4-Dinitrophenol	0.20	UY	0.12	0.20	1.0	mg/Kg-dry	1	7/9/2016 12:03 AM
2,4-Dinitrotoluene	0.020	UY	0.018	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
2,6-Dinitrotoluene	0.020	U	0.019	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
2-Chloronaphthalene	0.020	U	0.014	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
2-Chlorophenol	0.10	U	0.043	0.10	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
2-Methylphenol (o-Cresol)	0.10	U	0.044	0.10	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
2-Nitroaniline	0.020	UY	0.0099	0.020	0.39	mg/Kg-dry	1	7/9/2016 12:03 AM
2-Nitrophenol	0.10	UY	0.051	0.10	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
3,3´-Dichlorobenzidine	0.82	U	0.52	0.82	1.2	mg/Kg-dry	1	7/9/2016 12:03 AM
3-Nitroaniline	0.020	UY	0.014	0.020	0.39	mg/Kg-dry	1	7/9/2016 12:03 AM
3/4-Methylphenol [m/p-Cresol]	0.10	U	0.073	0.10	0.39	mg/Kg-dry	1	7/9/2016 12:03 AM
4,6-Dinitro-2-methylphenol	0.10	UY	0.059	0.10	0.39	mg/Kg-dry	1	7/9/2016 12:03 AM
4-Bromophenyl phenyl ether	0.10	U	0.052	0.10	0.24	mg/Kg-dry	1	7/9/2016 12:03 AM
4-Chloro-3-methylphenol	0.041	U	0.021	0.041	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
4-Chloroaniline [p-Chloroaniline]	0.10	U	0.031	0.10	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
4-Chlorophenyl phenyl ether	0.020	U	0.012	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
4-Nitroaniline	0.10	UY	0.029	0.10	0.39	mg/Kg-dry	1	7/9/2016 12:03 AM
4-Nitrophenol	0.41	UY	0.29	0.41	1.0	mg/Kg-dry	1	7/9/2016 12:03 AM
Benzoic acid	0.25	J	0.16	0.41	1.2	mg/Kg-dry	1	7/9/2016 12:03 AM
Benzyl alcohol	0.020	U	0.0098	0.020	0.81	mg/Kg-dry	1	7/9/2016 12:03 AM
Bis(2-chloroethoxy) methane	0.020	U	0.0085	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Bis(2-chloroethyl) ether	0.041	U	0.022	0.041	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Bis(2-chloroisopropyl)ether	0.020	UZ	0.0093	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Bis(2-ethylhexyl) phthalate	0.041	U	0.036	0.041	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Butyl benzyl phthalate	0.041	U	0.024	0.041	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Carbazole	0.020	U	0.014	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Di-n-butyl phthalate	0.041	U	0.022	0.041	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Di-n-octyl phthalate	0.020	U	0.014	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Dibenzofuran	0.020	U	0.010	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Diethyl phthalate	0.020	U	0.015	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Dimethyl phthalate	0.020	U	0.014	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Hexachlorobenzene	0.020	U	0.011	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Hexachlorobutadiene	0.020	U	0.019	0.020	0.061	mg/Kg-dry	1	7/9/2016 12:03 AM
Hexachloroethane	0.020	U	0.0094	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Isophorone	0.020	U	0.0085	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
N-Nitrosodi-n-propylamine	0.020	U	0.011	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
N-Nitrosodimethylamine	0.020	U	0.0099	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
N-Nitrosodiphenylamine	0.020	U	0.0099	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Nitrobenzene	0.020	U	0.013	0.020	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Pentachlorophenol	0.10	U	0.077	0.10	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Phenol	0.10	U	0.044	0.10	0.20	mg/Kg-dry	1	7/9/2016 12:03 AM
Surr: 2,4,6-Tribromophenol	71.3			39-132		%Rec	1	7/9/2016 12:03 AM
Surr: 2-Fluorobiphenyl	68.6			44-115		%Rec	1	7/9/2016 12:03 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606524-009	**Matrix:**	Soil
Client Sample ID:	H16-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	62.6			35-115		%Rec	1	7/9/2016 12:03 AM
Surr: Nitrobenzene-d5	73.6			37-122		%Rec	1	7/9/2016 12:03 AM
Surr: Phenol-d5	64.4			33-122		%Rec	1	7/9/2016 12:03 AM
Surr: Terphenyl-d14	63.8			54-127		%Rec	1	7/9/2016 12:03 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
2-Methylnaphthalene	0.0011		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Acenaphthene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Acenaphthylene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Anthracene	0.0015		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Benzo(a)anthracene	0.014		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Benzo(a)pyrene	0.015		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Benzo(b)fluoranthene	0.027		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Benzo(g,h,i)perylene	0.0063		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Benzo(k)fluoranthene	0.0098		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Chrysene	0.013		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Dibenzo(a,h)anthracene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Fluoranthene	0.027		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Fluorene	0.00083	U	0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Indeno(1,2,3-cd)pyrene	0.0063		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Naphthalene	0.0013		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Phenanthrene	0.0080		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Pyrene	0.024		0.00083	0.00083	0.00083	mg/Kg-dry	1	7/21/2016 4:41 PM
Surr: 2-Fluorobiphenyl	95.3			46-115		%Rec	1	7/21/2016 4:41 PM
Surr: Nitrobenzene-d5	108			44-125		%Rec	1	7/21/2016 4:41 PM
Surr: Terphenyl-d14	111			58-133		%Rec	1	7/21/2016 4:41 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	20		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606524-010	**Matrix:**	Soil
Client Sample ID:	H16-SB01-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.024	U	0.011	0.024	0.12	mg/Kg-dry	1	7/12/2016 11:29 PM
Aroclor 1221	0.024	U	0.011	0.024	0.12	mg/Kg-dry	1	7/12/2016 11:29 PM
Aroclor 1232	0.024	U	0.016	0.024	0.12	mg/Kg-dry	1	7/12/2016 11:29 PM
Aroclor 1242	0.024	U	0.013	0.024	0.12	mg/Kg-dry	1	7/12/2016 11:29 PM
Aroclor 1248	0.024	U	0.013	0.024	0.12	mg/Kg-dry	1	7/12/2016 11:29 PM
Aroclor 1254	0.024	U	0.015	0.024	0.12	mg/Kg-dry	1	7/12/2016 11:29 PM
Aroclor 1260	0.024	U	0.011	0.024	0.12	mg/Kg-dry	1	7/12/2016 11:29 PM
Aroclor 1262	0.024	U	0.011	0.024	0.12	mg/Kg-dry	1	7/12/2016 11:29 PM
Aroclor 1268	0.024	U	0.0088	0.024	0.12	mg/Kg-dry	1	7/12/2016 11:29 PM
Surr: Tetrachloro-m-xylene	101			44-130		%Rec	1	7/12/2016 11:29 PM
Surr: Decachlorobiphenyl	109			60-125		%Rec	1	7/12/2016 11:29 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	14,000		170	470	1,200	mg/Kg-dry	100	7/5/2016 3:35 PM
Antimony	2.6		0.88	1.2	2.3	mg/Kg-dry	1	7/5/2016 1:00 PM
Arsenic	2.9	J	1.7	2.3	4.7	mg/Kg-dry	1	7/5/2016 1:00 PM
Barium	89		0.69	12	23	mg/Kg-dry	1	7/5/2016 1:00 PM
Beryllium	0.57	J	0.030	0.12	0.58	mg/Kg-dry	1	7/5/2016 1:00 PM
Cadmium	0.59		0.077	0.12	0.58	mg/Kg-dry	1	7/5/2016 1:00 PM
Calcium	4,200		6.8	23	120	mg/Kg-dry	1	7/5/2016 1:00 PM
Chromium	11		0.19	0.93	1.2	mg/Kg-dry	1	7/5/2016 1:00 PM
Cobalt	2.4		0.21	0.58	2.3	mg/Kg-dry	1	7/5/2016 1:00 PM
Copper	30		0.97	2.3	12	mg/Kg-dry	1	7/5/2016 1:00 PM
Iron	6,600		73	120	350	mg/Kg-dry	10	7/5/2016 3:10 PM
Lead	22		1.5	2.3	12	mg/Kg-dry	1	7/5/2016 1:00 PM
Magnesium	1,600		8.1	12	120	mg/Kg-dry	1	7/5/2016 1:00 PM
Manganese	63		0.43	0.58	2.3	mg/Kg-dry	1	7/5/2016 1:00 PM
Nickel	12	J	0.66	2.3	12	mg/Kg-dry	1	7/5/2016 1:00 PM
Potassium	870		5.4	23	47	mg/Kg-dry	1	7/5/2016 1:00 PM
Selenium	3.5	U	2.7	3.5	4.7	mg/Kg-dry	1	7/5/2016 1:00 PM
Silver	0.58	U	0.19	0.58	2.3	mg/Kg-dry	1	7/5/2016 1:00 PM
Sodium	460		4.8	12	120	mg/Kg-dry	1	7/5/2016 1:00 PM
Vanadium	15		0.30	2.3	5.8	mg/Kg-dry	1	7/5/2016 1:00 PM
Zinc	86		0.90	1.2	12	mg/Kg-dry	1	7/5/2016 1:00 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	UG	0.12	0.12	0.49	mg/Kg-dry	10	7/21/2016 2:12 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.060	U	0.034	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
1,2-Dichlorobenzene	0.060	U	0.026	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
1,3-Dichlorobenzene	0.060	U	0.025	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
1,4-Dichlorobenzene	0.060	U	0.019	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
2,4,5-Trichlorophenol	0.12	U	0.059	0.12	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606524-010 **Matrix:** Soil
Client Sample ID: H16-SB01-05 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.12	UY	0.067	0.12	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
2,4-Dichlorophenol	0.30	U	0.10	0.30	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
2,4-Dimethyl phenol	0.30	U	0.11	0.30	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
2,4-Dinitrophenol	0.60	UY	0.34	0.60	3.0	mg/Kg-dry	1	7/9/2016 12:28 AM
2,4-Dinitrotoluene	0.060	UY	0.052	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
2,6-Dinitrotoluene	0.060	U	0.057	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
2-Chloronaphthalene	0.060	U	0.040	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
2-Chlorophenol	0.30	U	0.13	0.30	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
2-Methylphenol (o-Cresol)	0.30	U	0.13	0.30	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
2-Nitroaniline	0.060	UY	0.029	0.060	1.2	mg/Kg-dry	1	7/9/2016 12:28 AM
2-Nitrophenol	0.30	UY	0.15	0.30	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
3,3´-Dichlorobenzidine	2.4	U	1.5	2.4	3.6	mg/Kg-dry	1	7/9/2016 12:28 AM
3-Nitroaniline	0.060	UY	0.042	0.060	1.2	mg/Kg-dry	1	7/9/2016 12:28 AM
3/4-Methylphenol [m/p-Cresol]	0.30	U	0.21	0.30	1.2	mg/Kg-dry	1	7/9/2016 12:28 AM
4,6-Dinitro-2-methylphenol	0.30	UY	0.17	0.30	1.2	mg/Kg-dry	1	7/9/2016 12:28 AM
4-Bromophenyl phenyl ether	0.30	U	0.15	0.30	0.72	mg/Kg-dry	1	7/9/2016 12:28 AM
4-Chloro-3-methylphenol	0.12	U	0.063	0.12	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
4-Chloroaniline [p-Chloroaniline]	0.30	U	0.090	0.30	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
4-Chlorophenyl phenyl ether	0.060	U	0.036	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
4-Nitroaniline	0.30	UY	0.086	0.30	1.2	mg/Kg-dry	1	7/9/2016 12:28 AM
4-Nitrophenol	1.2	UY	0.86	1.2	3.0	mg/Kg-dry	1	7/9/2016 12:28 AM
Benzoic acid	0.60	J	0.48	1.2	3.6	mg/Kg-dry	1	7/9/2016 12:28 AM
Benzyl alcohol	0.060	U	0.029	0.060	2.4	mg/Kg-dry	1	7/9/2016 12:28 AM
Bis(2-chloroethoxy) methane	0.060	U	0.025	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Bis(2-chloroethyl) ether	0.12	U	0.064	0.12	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Bis(2-chloroisopropyl)ether	0.060	UZ	0.027	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Bis(2-ethylhexyl) phthalate	0.12	U	0.11	0.12	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Butyl benzyl phthalate	0.12	U	0.071	0.12	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Carbazole	0.060	U	0.041	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Di-n-butyl phthalate	0.12	U	0.065	0.12	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Di-n-octyl phthalate	0.060	U	0.041	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Dibenzofuran	0.060	U	0.031	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Diethyl phthalate	0.060	U	0.044	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Dimethyl phthalate	0.060	U	0.040	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Hexachlorobenzene	0.060	U	0.033	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Hexachlorobutadiene	0.060	U	0.055	0.060	0.18	mg/Kg-dry	1	7/9/2016 12:28 AM
Hexachloroethane	0.060	U	0.028	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Isophorone	0.060	U	0.025	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
N-Nitrosodi-n-propylamine	0.060	U	0.033	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
N-Nitrosodimethylamine	0.060	U	0.029	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
N-Nitrosodiphenylamine	0.060	U	0.029	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Nitrobenzene	0.060	U	0.037	0.060	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Pentachlorophenol	0.30	U	0.23	0.30	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Phenol	0.30	U	0.13	0.30	0.58	mg/Kg-dry	1	7/9/2016 12:28 AM
Surr: 2,4,6-Tribromophenol	72.7			39-132		%Rec	1	7/9/2016 12:28 AM
Surr: 2-Fluorobiphenyl	67.2			44-115		%Rec	1	7/9/2016 12:28 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606524-010	**Matrix:**	Soil
Client Sample ID:	H16-SB01-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	63.6			35-115		%Rec	1	7/9/2016 12:28 AM
Surr: Nitrobenzene-d5	74.2			37-122		%Rec	1	7/9/2016 12:28 AM
Surr: Phenol-d5	65.9			33-122		%Rec	1	7/9/2016 12:28 AM
Surr: Terphenyl-d14	64.4			54-127		%Rec	1	7/9/2016 12:28 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
2-Methylnaphthalene	0.0027		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Acenaphthene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Acenaphthylene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Anthracene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Benzo(a)anthracene	0.012		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Benzo(a)pyrene	0.012		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Benzo(b)fluoranthene	0.024		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Benzo(g,h,i)perylene	0.0063		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Benzo(k)fluoranthene	0.0078		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Chrysene	0.012		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Dibenzo(a,h)anthracene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Fluoranthene	0.023		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Fluorene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Indeno(1,2,3-cd)pyrene	0.0063		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Naphthalene	0.0034		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Phenanthrene	0.0081		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Pyrene	0.020		0.0024	0.0024	0.0024	mg/Kg-dry	1	7/21/2016 5:09 PM
Surr: 2-Fluorobiphenyl	108			46-115		%Rec	1	7/21/2016 5:09 PM
Surr: Nitrobenzene-d5	122			44-125		%Rec	1	7/21/2016 5:09 PM
Surr: Terphenyl-d14	121			58-133		%Rec	1	7/21/2016 5:09 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	73		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 2:50:00 PM
Project:	Camp Hero		
Lab ID:	1606524-011	**Matrix:**	Soil
Client Sample ID:	H14-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	13,000		54	140	360	mg/Kg-dry	100	7/5/2016 3:37 PM
Antimony	5.5		0.27	0.36	0.72	mg/Kg-dry	1	7/5/2016 1:01 PM
Arsenic	2.6		0.52	0.72	1.4	mg/Kg-dry	1	7/5/2016 1:01 PM
Barium	42		0.21	3.6	7.2	mg/Kg-dry	1	7/5/2016 1:01 PM
Beryllium	0.18	J	0.0091	0.036	0.18	mg/Kg-dry	1	7/5/2016 1:01 PM
Cadmium	0.065	J	0.024	0.036	0.18	mg/Kg-dry	1	7/5/2016 1:01 PM
Calcium	800		2.1	7.2	36	mg/Kg-dry	1	7/5/2016 1:01 PM
Chromium	22		0.059	0.29	0.36	mg/Kg-dry	1	7/5/2016 1:01 PM
Cobalt	5.5		0.065	0.18	0.72	mg/Kg-dry	1	7/5/2016 1:01 PM
Copper	44		0.30	0.72	3.6	mg/Kg-dry	1	7/5/2016 1:01 PM
Iron	15,000		23	36	110	mg/Kg-dry	10	7/5/2016 3:11 PM
Lead	3.3	J	0.45	0.72	3.6	mg/Kg-dry	1	7/5/2016 1:01 PM
Magnesium	3,800		25	36	360	mg/Kg-dry	10	7/5/2016 3:11 PM
Manganese	190		1.3	1.8	7.2	mg/Kg-dry	10	7/5/2016 3:11 PM
Nickel	13		0.20	0.72	3.6	mg/Kg-dry	1	7/5/2016 1:01 PM
Potassium	2,200		17	72	140	mg/Kg-dry	10	7/5/2016 3:11 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/5/2016 1:01 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/5/2016 1:01 PM
Sodium	130		1.5	3.6	36	mg/Kg-dry	1	7/5/2016 1:01 PM
Vanadium	26		0.091	0.72	1.8	mg/Kg-dry	1	7/5/2016 1:01 PM
Zinc	25		0.28	0.36	3.6	mg/Kg-dry	1	7/5/2016 1:01 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.16	G	0.035	0.036	0.14	mg/Kg-dry	10	7/21/2016 2:07 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
2-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Acenaphthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Acenaphthylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Benzo(a)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Benzo(a)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Benzo(b)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Benzo(g,h,i)perylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Benzo(k)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Chrysene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Dibenzo(a,h)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Fluorene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Indeno(1,2,3-cd)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Naphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Phenanthrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM
Pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 5:36 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 2:50:00 PM
Project:	Camp Hero		
Lab ID:	1606524-011	**Matrix:**	Soil
Client Sample ID:	H14-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	91.4			46-115		%Rec	1	7/21/2016 5:36 PM
Surr: Nitrobenzene-d5	103			44-125		%Rec	1	7/21/2016 5:36 PM
Surr: Terphenyl-d14	102			58-133		%Rec	1	7/21/2016 5:36 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.3		1.0	1.0	1.0	wt%	1	6/16/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 3:10:00 PM
Project:	Camp Hero		
Lab ID:	1606524-012	**Matrix:**	Soil
Client Sample ID:	H14-SB01-07		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,200		53	140	350	mg/Kg-dry	100	7/18/2016 12:56 PM
Antimony	2.6		0.27	0.35	0.71	mg/Kg-dry	1	7/18/2016 12:02 PM
Arsenic	2.0		0.51	0.71	1.4	mg/Kg-dry	1	7/18/2016 12:02 PM
Barium	35		0.21	3.5	7.1	mg/Kg-dry	1	7/18/2016 12:02 PM
Beryllium	0.092	J	0.0090	0.035	0.18	mg/Kg-dry	1	7/18/2016 12:02 PM
Cadmium	0.042	J	0.023	0.035	0.18	mg/Kg-dry	1	7/18/2016 12:02 PM
Calcium	320		2.1	7.1	35	mg/Kg-dry	1	7/18/2016 12:02 PM
Chromium	12		0.058	0.28	0.35	mg/Kg-dry	1	7/18/2016 12:02 PM
Cobalt	2.6		0.064	0.18	0.71	mg/Kg-dry	1	7/18/2016 12:02 PM
Copper	28		0.29	0.71	3.5	mg/Kg-dry	1	7/18/2016 12:02 PM
Iron	12,000		22	35	110	mg/Kg-dry	10	7/18/2016 1:20 PM
Lead	2.5	J	0.44	0.71	3.5	mg/Kg-dry	1	7/18/2016 12:02 PM
Magnesium	1,600		2.5	3.5	35	mg/Kg-dry	1	7/18/2016 12:02 PM
Manganese	210		1.3	1.8	7.1	mg/Kg-dry	10	7/18/2016 1:20 PM
Nickel	5.4		0.20	0.71	3.5	mg/Kg-dry	1	7/18/2016 12:02 PM
Potassium	1,200		1.6	7.1	14	mg/Kg-dry	1	7/18/2016 12:02 PM
Selenium	1.1	U	0.82	1.1	1.4	mg/Kg-dry	1	7/18/2016 12:02 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	7/18/2016 12:02 PM
Sodium	70		1.4	3.5	35	mg/Kg-dry	1	7/18/2016 12:02 PM
Vanadium	16		0.090	0.71	1.8	mg/Kg-dry	1	7/18/2016 12:02 PM
Zinc	13		0.27	0.35	3.5	mg/Kg-dry	1	7/18/2016 12:02 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.14	J	0.035	0.036	0.14	mg/Kg-dry	10	7/21/2016 2:22 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
2-Methylnaphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Acenaphthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Acenaphthylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Benzo(a)anthracene	0.00079		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Benzo(a)pyrene	0.00073		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Benzo(b)fluoranthene	0.0016		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Benzo(g,h,i)perylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Benzo(k)fluoranthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Chrysene	0.00090		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Dibenzo(a,h)anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Fluoranthene	0.0018		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Fluorene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Indeno(1,2,3-cd)pyrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Naphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Phenanthrene	0.0011		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM
Pyrene	0.0015		0.00071	0.00071	0.00071	mg/Kg-dry	1	7/21/2016 6:05 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 3:10:00 PM
Project:	Camp Hero		
Lab ID:	1606524-012	**Matrix:**	Soil
Client Sample ID:	H14-SB01-07		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	102			46-115		%Rec	1	7/21/2016 6:05 PM
Surr: Nitrobenzene-d5	102			44-125		%Rec	1	7/21/2016 6:05 PM
Surr: Terphenyl-d14	113			58-133		%Rec	1	7/21/2016 6:05 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	8.6		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 3:10:00 PM
Project: Camp Hero
Lab ID: 1606524-013 **Matrix:** Soil
Client Sample ID: H14-SB01-07 DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	3,000		51	140	340	mg/Kg-dry	100	7/18/2016 12:58 PM
Antimony	1.7		0.26	0.34	0.68	mg/Kg-dry	1	7/18/2016 12:04 PM
Arsenic	2.1		0.49	0.68	1.4	mg/Kg-dry	1	7/18/2016 12:04 PM
Barium	20		0.20	3.4	6.8	mg/Kg-dry	1	7/18/2016 12:04 PM
Beryllium	0.071	J	0.0086	0.034	0.17	mg/Kg-dry	1	7/18/2016 12:04 PM
Cadmium	0.034	U	0.022	0.034	0.17	mg/Kg-dry	1	7/18/2016 12:04 PM
Calcium	190		2.0	6.8	34	mg/Kg-dry	1	7/18/2016 12:04 PM
Chromium	7.7		0.056	0.27	0.34	mg/Kg-dry	1	7/18/2016 12:04 PM
Cobalt	1.7		0.061	0.17	0.68	mg/Kg-dry	1	7/18/2016 12:04 PM
Copper	21		0.28	0.68	3.4	mg/Kg-dry	1	7/18/2016 12:04 PM
Iron	8,300		210	340	1,000	mg/Kg-dry	100	7/18/2016 12:58 PM
Lead	1.5	J	0.42	0.68	3.4	mg/Kg-dry	1	7/18/2016 12:04 PM
Magnesium	730		2.4	3.4	34	mg/Kg-dry	1	7/18/2016 12:04 PM
Manganese	83		0.13	0.17	0.68	mg/Kg-dry	1	7/18/2016 12:04 PM
Nickel	2.2	J	0.19	0.68	3.4	mg/Kg-dry	1	7/18/2016 12:04 PM
Potassium	520		1.6	6.8	14	mg/Kg-dry	1	7/18/2016 12:04 PM
Selenium	1.0	U	0.79	1.0	1.4	mg/Kg-dry	1	7/18/2016 12:04 PM
Silver	0.17	U	0.056	0.17	0.68	mg/Kg-dry	1	7/18/2016 12:04 PM
Sodium	48		1.4	3.4	34	mg/Kg-dry	1	7/18/2016 12:04 PM
Vanadium	7.7		0.086	0.68	1.7	mg/Kg-dry	1	7/18/2016 12:04 PM
Zinc	6.3		0.26	0.34	3.4	mg/Kg-dry	1	7/18/2016 12:04 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.077	J	0.031	0.032	0.13	mg/Kg-dry	10	7/21/2016 2:23 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
2-Methylnaphthalene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Acenaphthene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Acenaphthylene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Anthracene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Benzo(a)anthracene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Benzo(a)pyrene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Benzo(b)fluoranthene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Benzo(g,h,i)perylene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Benzo(k)fluoranthene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Chrysene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Dibenzo(a,h)anthracene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Fluoranthene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Fluorene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Indeno(1,2,3-cd)pyrene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Naphthalene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Phenanthrene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM
Pyrene	0.00068	U	0.00068	0.00068	0.00068	mg/Kg-dry	1	7/21/2016 6:33 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 3:10:00 PM
Project:	Camp Hero		
Lab ID:	1606524-013	**Matrix:**	Soil
Client Sample ID:	H14-SB01-07 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	98.9			46-115		%Rec	1	7/21/2016 6:33 PM
Surr: Nitrobenzene-d5	110			44-125		%Rec	1	7/21/2016 6:33 PM
Surr: Terphenyl-d14	108			58-133		%Rec	1	7/21/2016 6:33 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	3.7		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 2:10:00 PM
Project:	Camp Hero		
Lab ID:	1606524-014	**Matrix:**	Soil
Client Sample ID:	H14-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,300		52	140	350	mg/Kg-dry	100	7/18/2016 12:59 PM
Antimony	3.7		0.26	0.35	0.70	mg/Kg-dry	1	7/18/2016 12:05 PM
Arsenic	3.8		0.51	0.70	1.4	mg/Kg-dry	1	7/18/2016 12:05 PM
Barium	27		0.21	3.5	7.0	mg/Kg-dry	1	7/18/2016 12:05 PM
Beryllium	0.052	J	0.0089	0.035	0.17	mg/Kg-dry	1	7/18/2016 12:05 PM
Cadmium	0.052	J	0.023	0.035	0.17	mg/Kg-dry	1	7/18/2016 12:05 PM
Calcium	650		2.1	7.0	35	mg/Kg-dry	1	7/18/2016 12:05 PM
Chromium	15		0.058	0.28	0.35	mg/Kg-dry	1	7/18/2016 12:05 PM
Cobalt	3.7		0.063	0.17	0.70	mg/Kg-dry	1	7/18/2016 12:05 PM
Copper	32		0.29	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:05 PM
Iron	12,000		22	35	100	mg/Kg-dry	10	7/18/2016 1:22 PM
Lead	3.8		0.44	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:05 PM
Magnesium	2,000		24	35	350	mg/Kg-dry	10	7/18/2016 1:22 PM
Manganese	130		0.13	0.17	0.70	mg/Kg-dry	1	7/18/2016 12:05 PM
Nickel	7.2		0.20	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:05 PM
Potassium	1,000		1.6	7.0	14	mg/Kg-dry	1	7/18/2016 12:05 PM
Selenium	1.0	U	0.81	1.0	1.4	mg/Kg-dry	1	7/18/2016 12:05 PM
Silver	0.17	U	0.057	0.17	0.70	mg/Kg-dry	1	7/18/2016 12:05 PM
Sodium	81		1.4	3.5	35	mg/Kg-dry	1	7/18/2016 12:05 PM
Vanadium	18		0.089	0.70	1.7	mg/Kg-dry	1	7/18/2016 12:05 PM
Zinc	15		0.27	0.35	3.5	mg/Kg-dry	1	7/18/2016 12:05 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.13	J	0.034	0.035	0.14	mg/Kg-dry	10	7/21/2016 2:24 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
2-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Acenaphthene	0.00075		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Anthracene	0.0011		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Benzo(a)anthracene	0.0058		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Benzo(a)pyrene	0.0051		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Benzo(b)fluoranthene	0.0080		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Benzo(g,h,i)perylene	0.0026		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Benzo(k)fluoranthene	0.0031		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Chrysene	0.0055		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Fluoranthene	0.014		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Fluorene	0.00076		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Indeno(1,2,3-cd)pyrene	0.0026		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Naphthalene	0.00074		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Phenanthrene	0.0080		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM
Pyrene	0.011		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 7:01 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 2:10:00 PM
Project:	Camp Hero		
Lab ID:	1606524-014	**Matrix:**	Soil
Client Sample ID:	H14-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	87.1			46-115		%Rec	1	7/21/2016 7:01 PM
Surr: Nitrobenzene-d5	87.5			44-125		%Rec	1	7/21/2016 7:01 PM
Surr: Terphenyl-d14	99.4			58-133		%Rec	1	7/21/2016 7:01 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	7.7		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 3:55:00 PM
Project:	Camp Hero		
Lab ID:	1606524-015	**Matrix:**	Soil
Client Sample ID:	H14-SB02-25		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,800		53	140	350	mg/Kg-dry	100	7/18/2016 1:00 PM
Antimony	2.6		0.26	0.35	0.70	mg/Kg-dry	1	7/18/2016 12:06 PM
Arsenic	1.4	J	0.51	0.70	1.4	mg/Kg-dry	1	7/18/2016 12:06 PM
Barium	37		0.21	3.5	7.0	mg/Kg-dry	1	7/18/2016 12:06 PM
Beryllium	0.11	J	0.0089	0.035	0.18	mg/Kg-dry	1	7/18/2016 12:06 PM
Cadmium	0.035	U	0.023	0.035	0.18	mg/Kg-dry	1	7/18/2016 12:06 PM
Calcium	440		2.1	7.0	35	mg/Kg-dry	1	7/18/2016 12:06 PM
Chromium	12		0.058	0.28	0.35	mg/Kg-dry	1	7/18/2016 12:06 PM
Cobalt	2.7		0.063	0.18	0.70	mg/Kg-dry	1	7/18/2016 12:06 PM
Copper	29		0.29	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:06 PM
Iron	13,000		220	350	1,100	mg/Kg-dry	100	7/18/2016 1:00 PM
Lead	2.4	J	0.44	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:06 PM
Magnesium	1,700		2.5	3.5	35	mg/Kg-dry	1	7/18/2016 12:06 PM
Manganese	220		13	18	70	mg/Kg-dry	100	7/18/2016 1:00 PM
Nickel	5.9		0.20	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:06 PM
Potassium	1,200		1.6	7.0	14	mg/Kg-dry	1	7/18/2016 12:06 PM
Selenium	1.1	U	0.82	1.1	1.4	mg/Kg-dry	1	7/18/2016 12:06 PM
Silver	0.18	U	0.057	0.18	0.70	mg/Kg-dry	1	7/18/2016 12:06 PM
Sodium	77		1.4	3.5	35	mg/Kg-dry	1	7/18/2016 12:06 PM
Vanadium	17		0.089	0.70	1.8	mg/Kg-dry	1	7/18/2016 12:06 PM
Zinc	14		0.27	0.35	3.5	mg/Kg-dry	1	7/18/2016 12:06 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.13	J	0.035	0.036	0.14	mg/Kg-dry	10	7/21/2016 2:25 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
2-Methylnaphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Acenaphthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Acenaphthylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Benzo(a)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Benzo(a)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Benzo(b)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Benzo(g,h,i)perylene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Benzo(k)fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Chrysene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Dibenzo(a,h)anthracene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Fluoranthene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Fluorene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Indeno(1,2,3-cd)pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Naphthalene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Phenanthrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM
Pyrene	0.00073	U	0.00073	0.00073	0.00073	mg/Kg-dry	1	7/21/2016 7:29 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 3:55:00 PM
Project:	Camp Hero		
Lab ID:	1606524-015	**Matrix:**	Soil
Client Sample ID:	H14-SB02-25		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	112			46-115		%Rec	1	7/21/2016 7:29 PM
Surr: Nitrobenzene-d5	123			44-125		%Rec	1	7/21/2016 7:29 PM
Surr: Terphenyl-d14	123			58-133		%Rec	1	7/21/2016 7:29 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.4		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 3:25:00 PM
Project:	Camp Hero		
Lab ID:	1606524-016	**Matrix:**	Soil
Client Sample ID:	H14-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,300		63	170	420	mg/Kg-dry	100	7/18/2016 1:01 PM
Antimony	4.2		0.31	0.42	0.83	mg/Kg-dry	1	7/18/2016 12:08 PM
Arsenic	1.9		0.61	0.83	1.7	mg/Kg-dry	1	7/18/2016 12:08 PM
Barium	29		0.25	4.2	8.3	mg/Kg-dry	1	7/18/2016 12:08 PM
Beryllium	0.10	J	0.011	0.042	0.21	mg/Kg-dry	1	7/18/2016 12:08 PM
Cadmium	0.038	J	0.028	0.042	0.21	mg/Kg-dry	1	7/18/2016 12:08 PM
Calcium	780		2.5	8.3	42	mg/Kg-dry	1	7/18/2016 12:08 PM
Chromium	13		0.069	0.33	0.42	mg/Kg-dry	1	7/18/2016 12:08 PM
Cobalt	4.2		0.075	0.21	0.83	mg/Kg-dry	1	7/18/2016 12:08 PM
Copper	28		0.35	0.83	4.2	mg/Kg-dry	1	7/18/2016 12:08 PM
Iron	11,000		260	420	1,300	mg/Kg-dry	100	7/18/2016 1:01 PM
Lead	2.1	J	0.52	0.83	4.2	mg/Kg-dry	1	7/18/2016 12:08 PM
Magnesium	2,100		2.9	4.2	42	mg/Kg-dry	1	7/18/2016 12:08 PM
Manganese	160		0.15	0.21	0.83	mg/Kg-dry	1	7/18/2016 12:08 PM
Nickel	7.8		0.24	0.83	4.2	mg/Kg-dry	1	7/18/2016 12:08 PM
Potassium	1,200		1.9	8.3	17	mg/Kg-dry	1	7/18/2016 12:08 PM
Selenium	1.3	U	0.97	1.3	1.7	mg/Kg-dry	1	7/18/2016 12:08 PM
Silver	0.21	U	0.068	0.21	0.83	mg/Kg-dry	1	7/18/2016 12:08 PM
Sodium	110		1.7	4.2	42	mg/Kg-dry	1	7/18/2016 12:08 PM
Vanadium	16		0.11	0.83	2.1	mg/Kg-dry	1	7/18/2016 12:08 PM
Zinc	15		0.32	0.42	4.2	mg/Kg-dry	1	7/18/2016 12:08 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.81		0.040	0.042	0.17	mg/Kg-dry	10	7/21/2016 2:26 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
2-Methylnaphthalene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Acenaphthene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Acenaphthylene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Anthracene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Benzo(a)anthracene	0.0012		0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Benzo(a)pyrene	0.0011		0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Benzo(b)fluoranthene	0.0023		0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Benzo(g,h,i)perylene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Benzo(k)fluoranthene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Chrysene	0.0011		0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Dibenzo(a,h)anthracene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Fluoranthene	0.0027		0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Fluorene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Indeno(1,2,3-cd)pyrene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Naphthalene	0.00085	U	0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Phenanthrene	0.0017		0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM
Pyrene	0.0022		0.00085	0.00085	0.00085	mg/Kg-dry	1	7/21/2016 7:56 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 3:25:00 PM
Project:	Camp Hero		
Lab ID:	1606524-016	**Matrix:**	Soil
Client Sample ID:	H14-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	99.6			46-115		%Rec	1	7/21/2016 7:56 PM
Surr: Nitrobenzene-d5	110			44-125		%Rec	1	7/21/2016 7:56 PM
Surr: Terphenyl-d14	109			58-133		%Rec	1	7/21/2016 7:56 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	22		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 3:35:00 PM
Project:	Camp Hero		
Lab ID:	1606524-017	**Matrix:**	Soil
Client Sample ID:	H14-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,600		52	140	350	mg/Kg-dry	100	7/18/2016 1:03 PM
Antimony	3.4		0.26	0.35	0.70	mg/Kg-dry	1	7/18/2016 12:09 PM
Arsenic	1.8		0.51	0.70	1.4	mg/Kg-dry	1	7/18/2016 12:09 PM
Barium	30		0.21	3.5	7.0	mg/Kg-dry	1	7/18/2016 12:09 PM
Beryllium	0.043	J	0.0089	0.035	0.17	mg/Kg-dry	1	7/18/2016 12:09 PM
Cadmium	0.035	U	0.023	0.035	0.17	mg/Kg-dry	1	7/18/2016 12:09 PM
Calcium	740		2.1	7.0	35	mg/Kg-dry	1	7/18/2016 12:09 PM
Chromium	17		0.058	0.28	0.35	mg/Kg-dry	1	7/18/2016 12:09 PM
Cobalt	3.5		0.063	0.17	0.70	mg/Kg-dry	1	7/18/2016 12:09 PM
Copper	31		0.29	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:09 PM
Iron	12,000		22	35	100	mg/Kg-dry	10	7/18/2016 1:24 PM
Lead	2.3	J	0.44	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:09 PM
Magnesium	2,200		24	35	350	mg/Kg-dry	10	7/18/2016 1:24 PM
Manganese	160		0.13	0.17	0.70	mg/Kg-dry	1	7/18/2016 12:09 PM
Nickel	8.9		0.20	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:09 PM
Potassium	1,200		1.6	7.0	14	mg/Kg-dry	1	7/18/2016 12:09 PM
Selenium	1.0	U	0.81	1.0	1.4	mg/Kg-dry	1	7/18/2016 12:09 PM
Silver	0.17	U	0.057	0.17	0.70	mg/Kg-dry	1	7/18/2016 12:09 PM
Sodium	140		1.4	3.5	35	mg/Kg-dry	1	7/18/2016 12:09 PM
Vanadium	18		0.089	0.70	1.7	mg/Kg-dry	1	7/18/2016 12:09 PM
Zinc	15		0.27	0.35	3.5	mg/Kg-dry	1	7/18/2016 12:09 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.15		0.034	0.035	0.14	mg/Kg-dry	10	7/21/2016 2:26 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
2-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Benzo(a)anthracene	0.0013		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Benzo(a)pyrene	0.00094		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Benzo(b)fluoranthene	0.0020		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Benzo(g,h,i)perylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Benzo(k)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Chrysene	0.0012		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Fluoranthene	0.0033		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Fluorene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Indeno(1,2,3-cd)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Naphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Phenanthrene	0.0026		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM
Pyrene	0.0025		0.00072	0.00072	0.00072	mg/Kg-dry	1	7/21/2016 8:24 PM

RTI Laboratories - Analytical Report

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 3:35:00 PM
Project:	Camp Hero		
Lab ID:	1606524-017	**Matrix:**	Soil
Client Sample ID:	H14-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	112			46-115		%Rec	1	7/21/2016 8:24 PM
Surr: Nitrobenzene-d5	127	Q		44-125		%Rec	1	7/21/2016 8:24 PM
Surr: Terphenyl-d14	119			58-133		%Rec	1	7/21/2016 8:24 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.6		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - DATES REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606524-001A	MP-SS02-01	6/13/2016 9:25 AM	Soil				
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/26/2016 12:18 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 3:45 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/22/2016 6:14 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/28/2016 2:49 PM
1606524-001B	MP-SS02-01	6/13/2016 9:25 AM	Soil				
				SW_8330S-Explosives		6/23/2016 3:09 PM	6/29/2016 6:04 AM
1606524-002A	MP-SS02-01 DUP	6/13/2016 9:25 AM	Soil				
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/26/2016 12:42 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 4:13 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/28/2016 3:17 PM
1606524-002B	MP-SS02-01 DUP	6/13/2016 9:25 AM	Soil				
				SW_8330S-Explosives		6/23/2016 3:09 PM	6/29/2016 10:18 AM
1606524-003A	MP-SB02-11	6/13/2016 11:30 AM	Soil				
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/26/2016 1:07 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 3:09 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	8/1/2016 9:52 PM
1606524-003B	MP-SB02-11	6/13/2016 11:30 AM	Soil				
				SW_8330S-Explosives		6/23/2016 3:09 PM	6/29/2016 11:42 AM
1606524-004A	MP-SS03-01	6/13/2016 11:15 AM	Soil				
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 9:09 AM	6/26/2016 1:32 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 3:34 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	8/2/2016 1:29 PM
1606524-004B	MP-SS03-01	6/13/2016 11:15 AM	Soil				
				SW_8330S-Explosives		6/23/2016 3:09 PM	6/29/2016 1:07 PM
1606524-004C	MP-SS03-01	6/13/2016 11:15 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/12/2016 9:51 PM

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WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606524-005A	MP-SB03-09	6/13/2016 11:30 AM	Soil				
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/8/2016 11:14 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 3:59 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	8/1/2016 6:39 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	8/2/2016 3:49 PM
1606524-005B	MP-SB03-09	6/13/2016 11:30 AM	Soil				
				SW_8330S-Explosives		6/23/2016 3:09 PM	6/29/2016 2:31 PM
1606524-005C	MP-SB03-09	6/13/2016 11:30 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/12/2016 10:16 PM
1606524-006A	EFO-SS01-01	6/13/2016 10:05 AM	Soil				
				SW_8330S-Explosives		6/23/2016 3:09 PM	6/29/2016 3:56 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606524-007A	EFO-SB01-08	6/13/2016 10:15 AM	Soil				
				SW_8330S-Explosives		6/23/2016 3:09 PM	6/29/2016 8:10 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606524-008A	H16-SS01-01	6/13/2016 10:50 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/5/2016 12:00 AM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/8/2016 11:38 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	8/3/2016 4:26 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 4:25 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	8/1/2016 7:06 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	8/2/2016 4:17 PM
1606524-008B	H16-SS01-01	6/13/2016 10:50 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/12/2016 10:40 PM
1606524-008C	H16-SS01-01	6/13/2016 10:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:11 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:57 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 3:07 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 3:33 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM

RTI Laboratories - DATES REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606524-009A	H16-SB01-05	6/13/2016 10:55 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/9/2016 12:03 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 4:41 PM
1606524-009B	H16-SB01-05	6/13/2016 10:55 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/12/2016 11:04 PM
1606524-009C	H16-SB01-05	6/13/2016 10:55 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:27 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:59 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 3:08 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 3:34 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606524-010A	H16-SB01-05 DUP	6/13/2016 10:55 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/9/2016 12:28 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 5:09 PM
1606524-010B	H16-SB01-05 DUP	6/13/2016 10:55 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/12/2016 11:29 PM
1606524-010C	H16-SB01-05 DUP	6/13/2016 10:55 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:12 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:00 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 3:10 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 3:35 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606524-011A	H14-SS01-01	6/13/2016 2:50 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 5:36 PM
1606524-011B	H14-SS01-01	6/13/2016 2:50 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:07 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:01 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 3:11 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 3:37 PM
				PMOIST-Percent Moisture		6/16/2016 3:15 PM	6/16/2016 3:15 PM
1606524-012A	H14-SB01-07	6/13/2016 3:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 6:05 PM

RTI Laboratories - DATES REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606524-012B	H14-SB01-07	6/13/2016 3:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:22 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:02 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:56 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:20 PM
				PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606524-013A	H14-SB01-07 DUP	6/13/2016 3:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 6:33 PM
1606524-013B	H14-SB01-07 DUP	6/13/2016 3:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:23 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:04 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:58 PM
				PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606524-014A	H14-SS02-01	6/13/2016 2:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 7:01 PM
1606524-014B	H14-SS02-01	6/13/2016 2:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:24 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:05 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:59 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:22 PM
				PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606524-015A	H14-SB02-25	6/13/2016 3:55 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 7:29 PM
1606524-015B	H14-SB02-25	6/13/2016 3:55 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:25 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:06 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:00 PM
				PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606524-016A	H14-SS03-01	6/13/2016 3:25 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 7:56 PM
1606524-016B	H14-SS03-01	6/13/2016 3:25 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:26 PM

RTI Laboratories - DATES REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606524-016B	H14-SS03-01	6/13/2016 3:25 PM	Soil				
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:08 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:01 PM
				PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606524-017A	H14-SB03-06	6/13/2016 3:35 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 8:24 PM
1606524-017B	H14-SB03-06	6/13/2016 3:35 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/20/2016 7:30 AM	7/21/2016 2:26 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:09 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:03 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:24 PM
				PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	MB-40223	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	PBS	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1687565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.16	0.16									U
1,2-Dichlorobenzene	0.16	0.16									U
1,3-Dichlorobenzene	0.16	0.16									U
1,4-Dichlorobenzene	0.16	0.16									U
2,4,5-Trichlorophenol	0.16	0.16									U
2,4,6-Trichlorophenol	0.16	0.16									U
2,4-Dichlorophenol	0.16	0.16									U
2,4-Dimethyl phenol	0.16	0.16									U
2,4-Dinitrophenol	0.82	0.82									U
2,4-Dinitrotoluene	0.16	0.16									U
2,6-Dinitrotoluene	0.16	0.16									U
2-Chloronaphthalene	0.16	0.16									U
2-Chlorophenol	0.16	0.16									U
2-Methylphenol (o-Cresol)	0.16	0.16									U
2-Nitroaniline	0.32	0.32									U
2-Nitrophenol	0.16	0.16									U
3,3´-Dichlorobenzidine	0.99	0.99									U
3-Nitroaniline	0.32	0.32									U
3/4-Methylphenol [m/p-Cresol]	0.32	0.32									U
4,6-Dinitro-2-methylphenol	0.32	0.32									U
4-Bromophenyl phenyl ether	0.20	0.20									U
4-Chloro-3-methylphenol	0.16	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.16	0.16									U
4-Chlorophenyl phenyl ether	0.16	0.16									U
4-Nitroaniline	0.32	0.32									U
4-Nitrophenol	0.82	0.82									UY
Benzoic acid	0.99	0.99									UYZ
Benzyl alcohol	0.65	0.65									U
Bis(2-chloroethoxy) methane	0.16	0.16									U
Bis(2-chloroethyl) ether	0.16	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**MB-40223**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**PBS**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1687565**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.16	0.16									UYZ
Bis(2-ethylhexyl) phthalate	0.16	0.16									U
Butyl benzyl phthalate	0.16	0.16									U
Carbazole	0.16	0.16									U
Di-n-butyl phthalate	0.16	0.16									U
Di-n-octyl phthalate	0.16	0.16									U
Dibenzofuran	0.16	0.16									U
Diethyl phthalate	0.16	0.16									U
Dimethyl phthalate	0.16	0.16									U
Hexachlorobenzene	0.16	0.16									U
Hexachlorobutadiene	0.049	0.049									U
Hexachloroethane	0.16	0.16									U
Isophorone	0.16	0.16									U
N-Nitrosodi-n-propylamine	0.16	0.16									U
N-Nitrosodimethylamine	0.16	0.16									UY
N-Nitrosodiphenylamine	0.16	0.16									U
Nitrobenzene	0.16	0.16									U
Pentachlorophenol	0.16	0.16									U
Phenol	0.16	0.16									U
Surr: 2,4,6-Tribromophenol	630		821.6		76.8	39	132				
Surr: 2-Fluorobiphenyl	600		821.6		73.6	44	115				
Surr: 2-Fluorophenol	590		821.6		72.2	35	115				
Surr: Nitrobenzene-d5	640		821.6		77.8	37	122				
Surr: Phenol-d5	570		821.6		69.3	33	122				
Surr: Terphenyl-d14	660		821.6		80.2	54	127				

Sample ID:	**LCS-40223**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**LCSS**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711442**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.40	0.16	0.66	0	61.4	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**LCS-40223**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**LCSS**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711442**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.39	0.16	0.66	0	59.6	33	117				
1,3-Dichlorobenzene	0.38	0.16	0.66	0	58.0	30	115				
1,4-Dichlorobenzene	0.38	0.16	0.66	0	57.5	31	115				
2,4,5-Trichlorophenol	0.43	0.16	0.66	0	65.0	41	124				
2,4,6-Trichlorophenol	0.46	0.16	0.66	0	70.1	39	126				
2,4-Dichlorophenol	0.46	0.16	0.66	0	70.2	40	122				
2,4-Dimethyl phenol	0.38	0.16	0.66	0	58.6	30	127				
2,4-Dinitrophenol	1.3	0.82	1.6	0	80.8	50	130				
2,4-Dinitrotoluene	0.47	0.16	0.66	0	72.0	48	126				
2,6-Dinitrotoluene	0.42	0.16	0.66	0	63.2	46	124				
2-Chloronaphthalene	0.36	0.16	0.66	0	55.3	41	114				
2-Chlorophenol	0.41	0.16	0.66	0	61.7	34	121				
2-Methylphenol (o-Cresol)	0.44	0.16	0.66	0	67.0	32	122				
2-Nitroaniline	0.39	0.32	0.66	0	58.7	44	127				
2-Nitrophenol	0.44	0.16	0.66	0	67.6	36	123				
3,3´-Dichlorobenzidine	0.99	0.99	0.66	0	0	22	121				QU
3-Nitroaniline	0.45	0.32	0.66	0	69.0	33	119				
3/4-Methylphenol [m/p-Cresol]	0.80	0.32	1.3	0	61.2	34	119				
4,6-Dinitro-2-methylphenol	0.52	0.32	0.66	0	79.8	29	132				
4-Bromophenyl phenyl ether	0.36	0.20	0.66	0	55.0	46	124				
4-Chloro-3-methylphenol	0.48	0.16	0.66	0	73.5	45	122				
4-Chloroaniline [p-Chloroaniline]	0.35	0.16	0.66	0	53.3	17	106				
4-Chlorophenyl phenyl ether	0.45	0.16	0.66	0	67.8	45	121				
4-Nitroaniline	0.37	0.32	0.66	0	56.2	50	130				
4-Nitrophenol	0.88	0.82	1.6	0	53.7	30	132				Y
Benzoic acid	0.58	0.99	1.3	0	44.1	40	117				JYZ
Benzyl alcohol	0.35	0.65	0.66	0	53.4	29	122				J
Bis(2-chloroethoxy) methane	0.36	0.16	0.66	0	54.6	36	121				
Bis(2-chloroethyl) ether	0.35	0.16	0.66	0	53.4	31	120				
Bis(2-chloroisopropyl)ether	0.38	0.16	0.66	0	57.4	33	131				YZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	LCS-40223	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	LCSS	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711442

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.42	0.16	0.66	0	64.4	51	133				
Butyl benzyl phthalate	0.41	0.16	0.66	0	61.7	48	132				
Carbazole	0.41	0.16	0.66	0	62.6	50	123				
Di-n-butyl phthalate	0.41	0.16	0.66	0	62.8	51	128				
Di-n-octyl phthalate	0.39	0.16	0.66	0	58.6	45	140				
Dibenzofuran	0.41	0.16	0.66	0	63.0	44	120				
Diethyl phthalate	0.44	0.16	0.66	0	67.5	50	124				
Dimethyl phthalate	0.41	0.16	0.66	0	63.0	48	124				
Hexachlorobenzene	0.37	0.16	0.66	0	55.8	45	122				
Hexachlorobutadiene	0.44	0.049	0.66	0	66.9	32	123				
Hexachloroethane	0.40	0.16	0.66	0	61.0	28	117				
Isophorone	0.37	0.16	0.66	0	56.4	30	122				
N-Nitrosodi-n-propylamine	0.40	0.16	0.66	0	61.1	50	130				
N-Nitrosodimethylamine	0.31	0.16	0.66	0	47.3	23	120				Y
N-Nitrosodiphenylamine	0.34	0.16	0.66	0	52.1	38	127				
Nitrobenzene	0.40	0.16	0.66	0	61.2	34	122				
Pentachlorophenol	0.39	0.16	0.66	0	59.4	25	133				
Phenol	0.40	0.16	0.66	0	61.3	34	121				
Surr: 2,4,6-Tribromophenol	620		821.0		75.2	39	132				
Surr: 2-Fluorobiphenyl	540		821.0		65.6	44	115				
Surr: 2-Fluorophenol	530		821.0		64.2	35	115				
Surr: Nitrobenzene-d5	570		821.0		70.0	37	122				
Surr: Phenol-d5	530		821.0		64.4	33	122				
Surr: Terphenyl-d14	600		821.0		72.8	54	127				

Sample ID:	1606467-010DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	ZZZZZZ	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711443

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.48	0.18	0.73	0	65.7	34	118				
1,2-Dichlorobenzene	0.48	0.18	0.73	0	65.5	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40223

Sample ID:	1606467-010DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	ZZZZZZ	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711443

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.46	0.18	0.73	0	62.9	30	115				
1,4-Dichlorobenzene	0.46	0.18	0.73	0	62.4	31	115				
2,4,5-Trichlorophenol	0.55	0.18	0.73	0	75.4	41	124				
2,4,6-Trichlorophenol	0.57	0.18	0.73	0	77.8	39	126				
2,4-Dichlorophenol	0.55	0.18	0.73	0	75.2	40	122				
2,4-Dimethyl phenol	0.46	0.18	0.73	0	62.9	30	127				
2,4-Dinitrophenol	1.9	0.91	1.8	0	101	50	130				J
2,4-Dinitrotoluene	0.59	0.18	0.73	0	80.2	48	126				
2,6-Dinitrotoluene	0.52	0.18	0.73	0	70.4	46	124				
2-Chloronaphthalene	0.44	0.18	0.73	0	60.5	41	114				
2-Chlorophenol	0.50	0.18	0.73	0	68.2	34	121				
2-Methylphenol (o-Cresol)	0.52	0.18	0.73	0	70.7	32	122				
2-Nitroaniline	0.48	0.35	0.73	0	65.0	44	127				
2-Nitrophenol	0.54	0.18	0.73	0	73.5	36	123				
3,3´-Dichlorobenzidine	1.1	1.1	0.73	0	0	22	121				QU
3-Nitroaniline	0.54	0.35	0.73	0	73.2	33	119				
3/4-Methylphenol [m/p-Cresol]	0.97	0.35	1.5	0	66.4	42	126				
4,6-Dinitro-2-methylphenol	0.64	0.35	0.73	0	86.6	29	132				
4-Bromophenyl phenyl ether	0.45	0.22	0.73	0	61.8	46	124				
4-Chloro-3-methylphenol	0.57	0.18	0.73	0	77.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.41	0.18	0.73	0	56.0	17	106				
4-Chlorophenyl phenyl ether	0.53	0.18	0.73	0	72.6	45	121				
4-Nitroaniline	0.44	0.35	0.73	0	60.0	50	130				
4-Nitrophenol	1.2	0.91	1.8	0	67.2	30	132				Y
Benzoic acid	1.5	1.1	1.5	0	105	40	117				YZ
Benzyl alcohol	0.41	0.73	0.73	0	56.0	29	122				J
Bis(2-chloroethoxy) methane	0.44	0.18	0.73	0	59.6	36	121				
Bis(2-chloroethyl) ether	0.44	0.18	0.73	0	59.7	31	120				
Bis(2-chloroisopropyl)ether	0.47	0.18	0.73	0	63.8	33	131				YZ
Bis(2-ethylhexyl) phthalate	0.52	0.18	0.73	0	71.1	51	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	1606467-010DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	ZZZZZZ	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711443

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.49	0.18	0.73	0	66.6	48	132				
Carbazole	0.50	0.18	0.73	0	68.0	50	123				
Di-n-butyl phthalate	0.50	0.18	0.73	0	68.0	51	128				
Di-n-octyl phthalate	0.48	0.18	0.73	0	65.9	45	140				
Dibenzofuran	0.51	0.18	0.73	0	69.0	44	120				
Diethyl phthalate	0.54	0.18	0.73	0	74.2	50	124				
Dimethyl phthalate	0.51	0.18	0.73	0	69.1	48	124				
Hexachlorobenzene	0.46	0.18	0.73	0	62.4	45	122				
Hexachlorobutadiene	0.53	0.055	0.73	0	72.6	32	123				
Hexachloroethane	0.48	0.18	0.73	0	65.7	28	117				
Isophorone	0.45	0.18	0.73	0	61.1	30	122				
N-Nitrosodi-n-propylamine	0.47	0.18	0.73	0	63.9	50	130				
N-Nitrosodimethylamine	0.38	0.18	0.73	0	51.6	23	120				Y
N-Nitrosodiphenylamine	0.43	0.18	0.73	0	58.2	38	127				
Nitrobenzene	0.51	0.18	0.73	0	69.5	34	122				
Pentachlorophenol	0.56	0.18	0.73	0	77.0	25	133				
Phenol	0.49	0.18	0.73	0	67.1	34	121				
Surr: 2,4,6-Tribromophenol	750		916.4		82.3	39	132				
Surr: 2-Fluorobiphenyl	660		916.4		71.9	44	115				
Surr: 2-Fluorophenol	630		916.4		68.8	35	115				
Surr: Nitrobenzene-d5	690		916.4		75.0	37	122				
Surr: Phenol-d5	640		916.4		70.2	33	122				
Surr: Terphenyl-d14	720		916.4		78.9	54	127				

Sample ID:	1606467-010DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	86974
Client ID:	ZZZZZZ	Batch ID:	40223	TestNo:	SW8270C	SW3546		Analysis Date:	6/25/2016	SeqNo:	1711444

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.45	0.18	0.73	0	61.9	34	118	0.48	5.92	25	
1,2-Dichlorobenzene	0.45	0.18	0.73	0	61.2	33	117	0.48	6.75	25	
1,3-Dichlorobenzene	0.43	0.18	0.73	0	59.0	30	115	0.46	6.28	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**1606467-010DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**ZZZZZZ**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711444**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.44	0.18	0.73	0	60.0	31	115	0.46	3.89	25	
2,4,5-Trichlorophenol	0.51	0.18	0.73	0	69.0	41	124	0.55	8.76	25	
2,4,6-Trichlorophenol	0.52	0.18	0.73	0	70.7	39	126	0.57	9.59	25	
2,4-Dichlorophenol	0.53	0.18	0.73	0	72.2	40	122	0.55	3.97	25	
2,4-Dimethyl phenol	0.41	0.18	0.73	0	56.5	30	127	0.46	10.8	25	
2,4-Dinitrophenol	1.6	0.91	1.8	0	86.0	50	130	1.9	16.3	25	
2,4-Dinitrotoluene	0.54	0.18	0.73	0	73.4	48	126	0.59	8.82	25	
2,6-Dinitrotoluene	0.48	0.18	0.73	0	65.0	46	124	0.52	7.94	25	
2-Chloronaphthalene	0.40	0.18	0.73	0	54.9	41	114	0.44	9.58	25	
2-Chlorophenol	0.46	0.18	0.73	0	62.3	34	121	0.50	8.93	25	
2-Methylphenol (o-Cresol)	0.47	0.18	0.73	0	63.4	32	122	0.52	10.8	25	
2-Nitroaniline	0.42	0.35	0.73	0	57.8	44	127	0.48	11.7	25	
2-Nitrophenol	0.51	0.18	0.73	0	68.9	36	123	0.54	6.36	25	
3,3´-Dichlorobenzidine	1.1	1.1	0.73	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.50	0.35	0.73	0	67.6	33	119	0.54	7.92	25	
3/4-Methylphenol [m/p-Cresol]	0.91	0.35	1.5	0	62.0	42	126	0.97	6.83	25	
4,6-Dinitro-2-methylphenol	0.58	0.35	0.73	0	79.7	29	132	0.64	8.32	25	
4-Bromophenyl phenyl ether	0.42	0.22	0.73	0	57.9	46	124	0.45	6.48	25	
4-Chloro-3-methylphenol	0.54	0.18	0.73	0	73.3	45	122	0.57	5.15	25	
4-Chloroaniline [p-Chloroaniline]	0.39	0.18	0.73	0	52.6	17	106	0.41	6.22	25	
4-Chlorophenyl phenyl ether	0.50	0.18	0.73	0	68.0	45	121	0.53	6.58	25	
4-Nitroaniline	0.38	0.35	0.73	0	51.2	50	130	0.44	15.8	25	
4-Nitrophenol	1.1	0.91	1.8	0	58.8	30	132	1.2	13.2	25	Y
Benzoic acid	1.6	1.1	1.5	0	108	40	117	1.5	3.39	25	YZ
Benzyl alcohol	0.37	0.73	0.73	0	51.1	29	122	0.41	9.12	25	J
Bis(2-chloroethoxy) methane	0.41	0.18	0.73	0	56.3	36	121	0.44	5.66	25	
Bis(2-chloroethyl) ether	0.41	0.18	0.73	0	55.7	31	120	0.44	6.98	25	
Bis(2-chloroisopropyl)ether	0.44	0.18	0.73	0	59.7	33	131	0.47	6.60	25	YZ
Bis(2-ethylhexyl) phthalate	0.45	0.18	0.73	0	61.6	51	133	0.52	14.4	25	
Butyl benzyl phthalate	0.43	0.18	0.73	0	58.8	48	132	0.49	12.4	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40223**

Sample ID:	**1606467-010DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**86974**
Client ID:	**ZZZZZZ**	Batch ID:	**40223**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**6/25/2016**	SeqNo:	**1711444**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.44	0.18	0.73	0	60.4	50	123	0.50	11.9	25	
Di-n-butyl phthalate	0.44	0.18	0.73	0	60.0	51	128	0.50	12.4	25	
Di-n-octyl phthalate	0.42	0.18	0.73	0	56.9	45	140	0.48	14.6	25	
Dibenzofuran	0.47	0.18	0.73	0	63.7	44	120	0.51	7.95	25	
Diethyl phthalate	0.49	0.18	0.73	0	66.8	50	124	0.54	10.5	25	
Dimethyl phthalate	0.46	0.18	0.73	0	63.4	48	124	0.51	8.57	25	
Hexachlorobenzene	0.41	0.18	0.73	0	55.3	45	122	0.46	12.1	25	
Hexachlorobutadiene	0.49	0.055	0.73	0	66.7	32	123	0.53	8.51	25	
Hexachloroethane	0.45	0.18	0.73	0	61.1	28	117	0.48	7.30	25	
Isophorone	0.42	0.18	0.73	0	57.7	30	122	0.45	5.60	25	
N-Nitrosodi-n-propylamine	0.44	0.18	0.73	0	59.8	50	130	0.47	6.59	25	
N-Nitrosodimethylamine	0.37	0.18	0.73	0	50.2	23	120	0.38	2.81	25	Y
N-Nitrosodiphenylamine	0.38	0.18	0.73	0	52.3	38	127	0.43	10.6	25	
Nitrobenzene	0.45	0.18	0.73	0	61.2	34	122	0.51	12.7	25	
Pentachlorophenol	0.55	0.18	0.73	0	75.2	25	133	0.56	2.33	25	
Phenol	0.47	0.18	0.73	0	63.5	34	121	0.49	5.48	25	
Surr: 2,4,6-Tribromophenol	630		916.7		68.7	39	132		0	25	
Surr: 2-Fluorobiphenyl	590		916.7		64.6	44	115		0	25	
Surr: 2-Fluorophenol	570		916.7		62.2	35	115		0	25	
Surr: Nitrobenzene-d5	640		916.7		70.0	37	122		0	25	
Surr: Phenol-d5	600		916.7		65.3	33	122		0	25	
Surr: Terphenyl-d14	630		916.7		68.8	54	127		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**MB-40226**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**87145**
Client ID:	**PBS**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1691048**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.16	0.16									U
1,2-Dichlorobenzene	0.16	0.16									U
1,3-Dichlorobenzene	0.16	0.16									U
1,4-Dichlorobenzene	0.16	0.16									U
2,4,5-Trichlorophenol	0.16	0.16									U
2,4,6-Trichlorophenol	0.16	0.16									U
2,4-Dichlorophenol	0.16	0.16									U
2,4-Dimethyl phenol	0.16	0.16									U
2,4-Dinitrophenol	0.81	0.81									UY
2,4-Dinitrotoluene	0.16	0.16									U
2,6-Dinitrotoluene	0.16	0.16									U
2-Chloronaphthalene	0.16	0.16									U
2-Chlorophenol	0.16	0.16									U
2-Methylphenol (o-Cresol)	0.16	0.16									U
2-Nitroaniline	0.31	0.31									UY
2-Nitrophenol	0.16	0.16									U
3,3´-Dichlorobenzidine	0.98	0.98									U
3-Nitroaniline	0.31	0.31									U
3/4-Methylphenol [m/p-Cresol]	0.31	0.31									U
4,6-Dinitro-2-methylphenol	0.31	0.31									UY
4-Bromophenyl phenyl ether	0.20	0.20									U
4-Chloro-3-methylphenol	0.16	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.16	0.16									U
4-Chlorophenyl phenyl ether	0.16	0.16									U
4-Nitroaniline	0.31	0.31									U
4-Nitrophenol	0.81	0.81									U
Benzoic acid	0.98	0.98									UY
Benzyl alcohol	0.65	0.65									U
Bis(2-chloroethoxy) methane	0.16	0.16									U
Bis(2-chloroethyl) ether	0.16	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	MB-40226	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	PBS	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1691048

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.16	0.16									UZ
Bis(2-ethylhexyl) phthalate	0.16	0.16									U
Butyl benzyl phthalate	0.16	0.16									U
Carbazole	0.16	0.16									U
Di-n-butyl phthalate	0.16	0.16									U
Di-n-octyl phthalate	0.16	0.16									U
Dibenzofuran	0.16	0.16									U
Diethyl phthalate	0.16	0.16									U
Dimethyl phthalate	0.16	0.16									U
Hexachlorobenzene	0.16	0.16									U
Hexachlorobutadiene	0.049	0.049									U
Hexachloroethane	0.16	0.16									U
Isophorone	0.16	0.16									U
N-Nitrosodi-n-propylamine	0.16	0.16									U
N-Nitrosodimethylamine	0.16	0.16									U
N-Nitrosodiphenylamine	0.16	0.16									U
Nitrobenzene	0.16	0.16									U
Pentachlorophenol	0.16	0.16									U
Phenol	0.16	0.16									U
Surr: 2,4,6-Tribromophenol	490		817.3		59.5	39	132				
Surr: 2-Fluorobiphenyl	530		817.3		65.2	44	115				
Surr: 2-Fluorophenol	520		817.3		63.6	35	115				
Surr: Nitrobenzene-d5	550		817.3		66.8	37	122				
Surr: Phenol-d5	530		817.3		65.4	33	122				
Surr: Terphenyl-d14	520		817.3		64.0	54	127				

Sample ID:	LCS-40226	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	LCSS	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1711455

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.44	0.16	0.66	0	66.8	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**LCS-40226**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**87145**
Client ID:	**LCSS**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1711455**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.43	0.16	0.66	0	65.4	33	117				
1,3-Dichlorobenzene	0.42	0.16	0.66	0	63.7	30	115				
1,4-Dichlorobenzene	0.42	0.16	0.66	0	63.7	31	115				
2,4,5-Trichlorophenol	0.50	0.16	0.66	0	76.9	41	124				
2,4,6-Trichlorophenol	0.51	0.16	0.66	0	77.9	39	126				
2,4-Dichlorophenol	0.50	0.16	0.66	0	75.6	40	122				
2,4-Dimethyl phenol	0.46	0.16	0.66	0	70.2	30	127				
2,4-Dinitrophenol	1.2	0.82	1.6	0	71.3	50	130				Y
2,4-Dinitrotoluene	0.54	0.16	0.66	0	81.9	48	126				
2,6-Dinitrotoluene	0.49	0.16	0.66	0	74.4	46	124				
2-Chloronaphthalene	0.44	0.16	0.66	0	66.7	41	114				
2-Chlorophenol	0.45	0.16	0.66	0	69.2	34	121				
2-Methylphenol (o-Cresol)	0.48	0.16	0.66	0	72.9	32	122				
2-Nitroaniline	0.52	0.32	0.66	0	79.1	44	127				Y
2-Nitrophenol	0.47	0.16	0.66	0	71.7	36	123				
3,3´-Dichlorobenzidine	0.49	0.98	0.66	0	74.9	22	121				J
3-Nitroaniline	0.50	0.32	0.66	0	76.4	33	119				
3/4-Methylphenol [m/p-Cresol]	0.90	0.32	1.3	0	68.4	34	119				
4,6-Dinitro-2-methylphenol	0.55	0.32	0.66	0	84.2	29	132				Y
4-Bromophenyl phenyl ether	0.45	0.20	0.66	0	68.4	46	124				
4-Chloro-3-methylphenol	0.50	0.16	0.66	0	76.1	45	122				
4-Chloroaniline [p-Chloroaniline]	0.48	0.16	0.66	0	72.7	17	106				
4-Chlorophenyl phenyl ether	0.45	0.16	0.66	0	68.8	45	121				
4-Nitroaniline	0.49	0.32	0.66	0	74.3	50	130				
4-Nitrophenol	1.2	0.82	1.6	0	71.3	30	132				
Benzoic acid	0.26	0.98	1.3	0	19.7	40	117				JQY
Benzyl alcohol	0.44	0.65	0.66	0	66.4	29	122				J
Bis(2-chloroethoxy) methane	0.46	0.16	0.66	0	70.6	36	121				
Bis(2-chloroethyl) ether	0.42	0.16	0.66	0	64.7	31	120				
Bis(2-chloroisopropyl)ether	0.43	0.16	0.66	0	65.2	33	131				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	LCS-40226	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	LCSS	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1711455

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.48	0.16	0.66	0	73.2	51	133				
Butyl benzyl phthalate	0.48	0.16	0.66	0	73.8	48	132				
Carbazole	0.46	0.16	0.66	0	70.4	50	123				
Di-n-butyl phthalate	0.45	0.16	0.66	0	67.9	51	128				
Di-n-octyl phthalate	0.51	0.16	0.66	0	77.2	45	140				
Dibenzofuran	0.46	0.16	0.66	0	69.5	44	120				
Diethyl phthalate	0.47	0.16	0.66	0	71.3	50	124				
Dimethyl phthalate	0.45	0.16	0.66	0	68.3	48	124				
Hexachlorobenzene	0.46	0.16	0.66	0	70.6	45	122				
Hexachlorobutadiene	0.44	0.049	0.66	0	67.7	32	123				
Hexachloroethane	0.43	0.16	0.66	0	65.8	28	117				
Isophorone	0.44	0.16	0.66	0	67.0	30	122				
N-Nitrosodi-n-propylamine	0.44	0.16	0.66	0	66.9	50	130				
N-Nitrosodimethylamine	0.44	0.16	0.66	0	66.5	23	120				
N-Nitrosodiphenylamine	0.45	0.16	0.66	0	68.9	38	127				
Nitrobenzene	0.44	0.16	0.66	0	67.7	34	122				
Pentachlorophenol	0.48	0.16	0.66	0	73.1	25	133				
Phenol	0.47	0.16	0.66	0	71.3	34	121				
Surr: 2,4,6-Tribromophenol	630		820.5		76.9	39	132				
Surr: 2-Fluorobiphenyl	580		820.5		70.3	44	115				
Surr: 2-Fluorophenol	590		820.5		71.8	35	115				
Surr: Nitrobenzene-d5	620		820.5		76.2	37	122				
Surr: Phenol-d5	610		820.5		74.9	33	122				
Surr: Terphenyl-d14	610		820.5		74.9	54	127				

Sample ID:	1606593-006AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	ZZZZZZ	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1711456

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.43	0.16	0.68	0	63.1	34	118				
1,2-Dichlorobenzene	0.42	0.16	0.68	0	61.6	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**1606593-006AMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**87145**
Client ID:	**ZZZZZZ**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1711456**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.42	0.16	0.68	0	61.5	30	115				
1,4-Dichlorobenzene	0.41	0.16	0.68	0	60.2	31	115				
2,4,5-Trichlorophenol	0.18	0.16	0.68	0	26.2	41	124				Q
2,4,6-Trichlorophenol	0.19	0.16	0.68	0	27.9	39	126				Q
2,4-Dichlorophenol	0.28	0.16	0.68	0	40.8	40	122				
2,4-Dimethyl phenol	0.20	0.16	0.68	0	29.7	30	127				Q
2,4-Dinitrophenol	0.85	0.85	1.7	0	0	50	130				QUY
2,4-Dinitrotoluene	0.48	0.16	0.68	0	70.6	48	126				
2,6-Dinitrotoluene	0.47	0.16	0.68	0	68.5	46	124				
2-Chloronaphthalene	0.44	0.16	0.68	0	64.5	41	114				
2-Chlorophenol	0.31	0.16	0.68	0	45.0	34	121				
2-Methylphenol (o-Cresol)	0.35	0.16	0.68	0	51.0	32	122				
2-Nitroaniline	0.49	0.33	0.68	0	71.5	44	127				Y
2-Nitrophenol	0.21	0.16	0.68	0	30.7	36	123				Q
3,3´-Dichlorobenzidine	1.0	1.0	0.68	0	0	22	121				QU
3-Nitroaniline	0.35	0.33	0.68	0	51.7	33	119				
3/4-Methylphenol [m/p-Cresol]	0.60	0.33	1.4	0	44.3	42	126				
4,6-Dinitro-2-methylphenol	0.11	0.33	0.68	0	15.9	29	132				JQY
4-Bromophenyl phenyl ether	0.45	0.20	0.68	0	66.0	46	124				
4-Chloro-3-methylphenol	0.34	0.16	0.68	0	49.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.15	0.16	0.68	0	21.4	17	106				J
4-Chlorophenyl phenyl ether	0.46	0.16	0.68	0	67.1	45	121				
4-Nitroaniline	0.30	0.33	0.68	0	44.7	50	130				JQ
4-Nitrophenol	0.85	0.85	1.7	0	0	30	132				QU
Benzoic acid	1.0	1.0	1.4	0	0	40	117				QUY
Benzyl alcohol	0.38	0.68	0.68	0	55.8	29	122				J
Bis(2-chloroethoxy) methane	0.45	0.16	0.68	0	65.9	36	121				
Bis(2-chloroethyl) ether	0.42	0.16	0.68	0	61.2	31	120				
Bis(2-chloroisopropyl)ether	0.42	0.16	0.68	0	61.6	33	131				Z
Bis(2-ethylhexyl) phthalate	0.49	0.16	0.68	0	71.7	51	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	1606593-006AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	ZZZZZZ	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1711456

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.46	0.16	0.68	0	67.8	48	132				
Carbazole	0.43	0.16	0.68	0	63.6	50	123				
Di-n-butyl phthalate	0.44	0.16	0.68	0	64.8	51	128				
Di-n-octyl phthalate	0.51	0.16	0.68	0	74.5	45	140				
Dibenzofuran	0.45	0.16	0.68	0	66.4	44	120				
Diethyl phthalate	0.44	0.16	0.68	0	64.6	50	124				
Dimethyl phthalate	0.43	0.16	0.68	0	62.3	48	124				
Hexachlorobenzene	0.46	0.16	0.68	0	68.1	45	122				
Hexachlorobutadiene	0.44	0.051	0.68	0	64.7	32	123				
Hexachloroethane	0.42	0.16	0.68	0	61.3	28	117				
Isophorone	0.42	0.16	0.68	0	61.6	30	122				
N-Nitrosodi-n-propylamine	0.42	0.16	0.68	0	61.5	50	130				
N-Nitrosodimethylamine	0.37	0.16	0.68	0	54.8	23	120				
N-Nitrosodiphenylamine	0.15	0.16	0.68	0	22.6	38	127				JQ
Nitrobenzene	0.44	0.16	0.68	0	64.0	34	122				
Pentachlorophenol	0.078	0.16	0.68	0	11.5	25	133				JQ
Phenol	0.35	0.16	0.68	0	51.1	34	121				
Surr: 2,4,6-Tribromophenol	250		852.7		28.9	39	132				JQ
Surr: 2-Fluorobiphenyl	600		852.7		70.0	44	115				
Surr: 2-Fluorophenol	360		852.7		42.6	35	115				
Surr: Nitrobenzene-d5	640		852.7		75.2	37	122				
Surr: Phenol-d5	450		852.7		52.6	33	122				
Surr: Terphenyl-d14	630		852.7		74.2	54	127				

Sample ID:	1606593-006AMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	ZZZZZZ	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1711457

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.49	0.16	0.68	0	72.1	34	118	0.43	13.5	25	
1,2-Dichlorobenzene	0.49	0.16	0.68	0	72.0	33	117	0.42	15.7	25	
1,3-Dichlorobenzene	0.49	0.16	0.68	0	71.0	30	115	0.42	14.6	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**1606593-006AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**87145**
Client ID:	**ZZZZZZ**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1711457**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.48	0.16	0.68	0	69.8	31	115	0.41	14.9	25	
2,4,5-Trichlorophenol	0.21	0.16	0.68	0	31.4	41	124	0.18	18.4	25	Q
2,4,6-Trichlorophenol	0.21	0.16	0.68	0	30.3	39	126	0.19	8.40	25	Q
2,4-Dichlorophenol	0.31	0.16	0.68	0	45.9	40	122	0.28	11.8	25	
2,4-Dimethyl phenol	0.23	0.16	0.68	0	33.2	30	127	0.20	11.3	25	
2,4-Dinitrophenol	0.85	0.85	1.7	0	0	50	130	0	0	25	QUY
2,4-Dinitrotoluene	0.57	0.16	0.68	0	82.9	48	126	0.48	16.2	25	
2,6-Dinitrotoluene	0.55	0.16	0.68	0	81.1	46	124	0.47	17.1	25	
2-Chloronaphthalene	0.50	0.16	0.68	0	72.6	41	114	0.44	12.0	25	
2-Chlorophenol	0.36	0.16	0.68	0	52.8	34	121	0.31	16.1	25	
2-Methylphenol (o-Cresol)	0.42	0.16	0.68	0	61.3	32	122	0.35	18.4	25	
2-Nitroaniline	0.58	0.33	0.68	0	85.3	44	127	0.49	17.8	25	Y
2-Nitrophenol	0.22	0.16	0.68	0	32.9	36	123	0.21	7.08	25	Q
3,3´-Dichlorobenzidine	1.0	1.0	0.68	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.42	0.33	0.68	0	61.1	33	119	0.35	16.7	25	
3/4-Methylphenol [m/p-Cresol]	0.71	0.33	1.4	0	52.0	42	126	0.60	16.2	25	
4,6-Dinitro-2-methylphenol	0.11	0.33	0.68	0	16.3	29	132	0.11	2.64	25	JQY
4-Bromophenyl phenyl ether	0.52	0.20	0.68	0	75.7	46	124	0.45	13.9	25	
4-Chloro-3-methylphenol	0.40	0.16	0.68	0	58.2	45	122	0.34	16.9	25	
4-Chloroaniline [p-Chloroaniline]	0.16	0.16	0.68	0	24.0	17	106	0.15	11.4	25	
4-Chlorophenyl phenyl ether	0.51	0.16	0.68	0	75.2	45	121	0.46	11.5	25	
4-Nitroaniline	0.37	0.33	0.68	0	53.7	50	130	0.30	18.5	25	
4-Nitrophenol	0.27	0.85	1.7	0	15.7	30	132	0	200	25	JRQ
Benzoic acid	1.0	1.0	1.4	0	0	40	117	0	0	25	QUY
Benzyl alcohol	0.46	0.68	0.68	0	67.3	29	122	0.38	18.8	25	J
Bis(2-chloroethoxy) methane	0.52	0.16	0.68	0	75.9	36	121	0.45	14.2	25	
Bis(2-chloroethyl) ether	0.48	0.16	0.68	0	70.8	31	120	0.42	14.8	25	
Bis(2-chloroisopropyl)ether	0.48	0.16	0.68	0	70.7	33	131	0.42	14.0	25	Z
Bis(2-ethylhexyl) phthalate	0.57	0.16	0.68	0	83.4	51	133	0.49	15.2	25	
Butyl benzyl phthalate	0.54	0.16	0.68	0	79.6	48	132	0.46	16.1	25	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40226

Sample ID: **1606593-006AMSD** Samp Type: **MSD** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/22/2016** RunNo: **87145**

Client ID: **ZZZZZZ** Batch ID: **40226** TestNo: **SW8270C** **SW3546** Analysis Date: **7/5/2016** SeqNo: **1711457**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.49	0.16	0.68	0	71.8	50	123	0.43	12.3	25	
Di-n-butyl phthalate	0.50	0.16	0.68	0	73.3	51	128	0.44	12.5	25	
Di-n-octyl phthalate	0.58	0.16	0.68	0	85.5	45	140	0.51	14.0	25	
Dibenzofuran	0.51	0.16	0.68	0	74.9	44	120	0.45	12.3	25	
Diethyl phthalate	0.51	0.16	0.68	0	74.3	50	124	0.44	14.1	25	
Dimethyl phthalate	0.49	0.16	0.68	0	71.7	48	124	0.43	14.2	25	
Hexachlorobenzene	0.53	0.16	0.68	0	77.3	45	122	0.46	12.8	25	
Hexachlorobutadiene	0.51	0.051	0.68	0	74.9	32	123	0.44	14.8	25	
Hexachloroethane	0.49	0.16	0.68	0	71.7	28	117	0.42	15.8	25	
Isophorone	0.48	0.16	0.68	0	70.3	30	122	0.42	13.3	25	
N-Nitrosodi-n-propylamine	0.50	0.16	0.68	0	73.2	50	130	0.42	17.6	25	
N-Nitrosodimethylamine	0.44	0.16	0.68	0	64.8	23	120	0.37	16.9	25	
N-Nitrosodiphenylamine	0.17	0.16	0.68	0	24.5	38	127	0.15	8.01	25	Q
Nitrobenzene	0.51	0.16	0.68	0	74.5	34	122	0.44	15.3	25	
Pentachlorophenol	0.078	0.16	0.68	0	11.3	25	133	0.078	1.15	25	JQ
Phenol	0.42	0.16	0.68	0	61.4	34	121	0.35	18.4	25	
Surr: 2,4,6-Tribromophenol	270		854.2		31.8	39	132		0	25	JQ
Surr: 2-Fluorobiphenyl	670		854.2		78.9	44	115		0	25	
Surr: 2-Fluorophenol	410		854.2		48.1	35	115		0	25	
Surr: Nitrobenzene-d5	740		854.2		86.9	37	122		0	25	
Surr: Phenol-d5	540		854.2		62.9	33	122		0	25	
Surr: Terphenyl-d14	730		854.2		85.1	54	127		0	25	

Sample ID: **1606593-006AMS1** Samp Type: **MS** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/22/2016** RunNo: **88307**

Client ID: **ZZZZZZ** Batch ID: **40226** TestNo: **SW8270C** **SW3546** Analysis Date: **7/5/2016** SeqNo: **1717291**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.43	0.16	0.68	0	63.1	34	118				
1,2-Dichlorobenzene	0.42	0.16	0.68	0	61.6	33	117				
1,3-Dichlorobenzene	0.42	0.16	0.68	0	61.5	30	115				
1,4-Dichlorobenzene	0.41	0.16	0.68	0	60.2	31	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40226

Sample ID:	1606593-006AMS1	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	88307
Client ID:	ZZZZZZ	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1717291

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	0.18	0.16	0.68	0	26.2	41	124				Q
2,4,6-Trichlorophenol	0.19	0.16	0.68	0	27.9	39	126				Q
2,4-Dichlorophenol	0.28	0.16	0.68	0	40.8	40	122				
2,4-Dimethyl phenol	0.20	0.16	0.68	0	29.7	30	127				Q
2,4-Dinitrophenol	0.85	0.85	1.7	0	0	50	130				QUY
2,4-Dinitrotoluene	0.48	0.16	0.68	0	70.6	48	126				
2,6-Dinitrotoluene	0.47	0.16	0.68	0	68.5	46	124				
2-Chloronaphthalene	0.44	0.16	0.68	0	64.5	41	114				
2-Chlorophenol	0.31	0.16	0.68	0	45.0	34	121				
2-Methylphenol (o-Cresol)	0.35	0.16	0.68	0	51.0	32	122				
2-Nitroaniline	0.49	0.33	0.68	0	71.5	44	127				Y
2-Nitrophenol	0.21	0.16	0.68	0	30.7	36	123				Q
3,3´-Dichlorobenzidine	1.0	1.0	0.68	0	0	22	121				QU
3-Nitroaniline	0.35	0.33	0.68	0	51.7	33	119				
3/4-Methylphenol [m/p-Cresol]	0.60	0.33	1.4	0	44.3	42	126				
4,6-Dinitro-2-methylphenol	0.11	0.33	0.68	0	15.9	29	132				JQY
4-Bromophenyl phenyl ether	0.45	0.20	0.68	0	66.0	46	124				
4-Chloro-3-methylphenol	0.34	0.16	0.68	0	49.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.15	0.16	0.68	0	21.4	17	106				J
4-Chlorophenyl phenyl ether	0.46	0.16	0.68	0	67.1	45	121				
4-Nitroaniline	0.31	0.33	0.68	0	44.7	50	130				JQ
4-Nitrophenol	0.85	0.85	1.7	0	0	30	132				QU
Benzoic acid	1.0	1.0	1.4	0	0	40	117				QUY
Benzyl alcohol	0.38	0.68	0.68	0	55.8	29	122				J
Bis(2-chloroethoxy) methane	0.45	0.16	0.68	0	65.9	36	121				
Bis(2-chloroethyl) ether	0.42	0.16	0.68	0	61.2	31	120				
Bis(2-chloroisopropyl)ether	0.42	0.16	0.68	0	61.6	33	131				Z
Bis(2-ethylhexyl) phthalate	0.49	0.16	0.68	0	71.7	51	133				
Butyl benzyl phthalate	0.46	0.16	0.68	0	67.8	48	132				
Carbazole	0.43	0.16	0.68	0	63.6	50	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID: **1606593-006AMS1** Samp Type: **MS** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/22/2016** RunNo: **88307**

Client ID: **ZZZZZZ** Batch ID: **40226** TestNo: **SW8270C** **SW3546** Analysis Date: **7/5/2016** SeqNo: **1717291**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	0.44	0.16	0.68	0	64.8	51	128				
Di-n-octyl phthalate	0.51	0.16	0.68	0	74.5	45	140				
Dibenzofuran	0.45	0.16	0.68	0	66.4	44	120				
Diethyl phthalate	0.44	0.16	0.68	0	64.6	50	124				
Dimethyl phthalate	0.43	0.16	0.68	0	62.3	48	124				
Hexachlorobenzene	0.47	0.16	0.68	0	68.1	45	122				
Hexachlorobutadiene	0.44	0.051	0.68	0	64.7	32	123				
Hexachloroethane	0.42	0.16	0.68	0	61.3	28	117				
Isophorone	0.42	0.16	0.68	0	61.6	30	122				
N-Nitrosodi-n-propylamine	0.42	0.16	0.68	0	61.5	50	130				
N-Nitrosodimethylamine	0.37	0.16	0.68	0	54.8	23	120				
N-Nitrosodiphenylamine	0.15	0.16	0.68	0	22.6	38	127				JQ
Nitrobenzene	0.44	0.16	0.68	0	64.0	34	122				
Pentachlorophenol	0.078	0.16	0.68	0	11.5	25	133				JQ
Phenol	0.35	0.16	0.68	0	51.1	34	121				
Surr: 2,4,6-Tribromophenol	250		853.2		28.9	39	132				JQ
Surr: 2-Fluorobiphenyl	600		853.2		70.0	44	115				
Surr: 2-Fluorophenol	360		853.2		42.6	35	115				
Surr: Nitrobenzene-d5	640		853.2		75.2	37	122				
Surr: Phenol-d5	450		853.2		52.6	33	122				
Surr: Terphenyl-d14	630		853.2		74.2	54	127				

Sample ID: **1606593-006AMSD1** Samp Type: **MSD** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/22/2016** RunNo: **88307**

Client ID: **ZZZZZZ** Batch ID: **40226** TestNo: **SW8270C** **SW3546** Analysis Date: **7/5/2016** SeqNo: **1717292**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.49	0.16	0.68	0	72.1	34	118	0.43	13.5	25	
1,2-Dichlorobenzene	0.49	0.16	0.68	0	72.0	33	117	0.42	15.8	25	
1,3-Dichlorobenzene	0.49	0.16	0.68	0	71.0	30	115	0.42	14.6	25	
1,4-Dichlorobenzene	0.48	0.16	0.68	0	69.8	31	115	0.41	15.0	25	
2,4,5-Trichlorophenol	0.22	0.16	0.68	0	31.4	41	124	0.18	18.4	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID: **1606593-006AMSD1** Samp Type: **MSD** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/22/2016** RunNo: **88307**

Client ID: **ZZZZZZ** Batch ID: **40226** TestNo: **SW8270C** **SW3546** Analysis Date: **7/5/2016** SeqNo: **1717292**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	0.21	0.16	0.68	0	30.3	39	126	0.19	8.45	25	Q
2,4-Dichlorophenol	0.31	0.16	0.68	0	45.9	40	122	0.28	11.9	25	
2,4-Dimethyl phenol	0.23	0.16	0.68	0	33.2	30	127	0.20	11.3	25	
2,4-Dinitrophenol	0.85	0.85	1.7	0	0	50	130	0	0	25	QUY
2,4-Dinitrotoluene	0.57	0.16	0.68	0	82.9	48	126	0.48	16.3	25	
2,6-Dinitrotoluene	0.55	0.16	0.68	0	81.1	46	124	0.47	17.1	25	
2-Chloronaphthalene	0.50	0.16	0.68	0	72.6	41	114	0.44	12.0	25	
2-Chlorophenol	0.36	0.16	0.68	0	52.8	34	121	0.31	16.2	25	
2-Methylphenol (o-Cresol)	0.42	0.16	0.68	0	61.3	32	122	0.35	18.5	25	
2-Nitroaniline	0.58	0.33	0.68	0	85.3	44	127	0.49	17.8	25	Y
2-Nitrophenol	0.22	0.16	0.68	0	32.9	36	123	0.21	7.14	25	Q
3,3´-Dichlorobenzidine	1.0	1.0	0.68	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.42	0.33	0.68	0	61.1	33	119	0.35	16.8	25	
3/4-Methylphenol [m/p-Cresol]	0.71	0.33	1.4	0	52.0	42	126	0.60	16.3	25	
4,6-Dinitro-2-methylphenol	0.11	0.33	0.68	0	16.3	29	132	0.11	2.70	25	JQY
4-Bromophenyl phenyl ether	0.52	0.21	0.68	0	75.7	46	124	0.45	14.0	25	
4-Chloro-3-methylphenol	0.40	0.16	0.68	0	58.2	45	122	0.34	17.0	25	
4-Chloroaniline [p-Chloroaniline]	0.16	0.16	0.68	0	24.0	17	106	0.15	11.4	25	
4-Chlorophenyl phenyl ether	0.51	0.16	0.68	0	75.2	45	121	0.46	11.6	25	
4-Nitroaniline	0.37	0.33	0.68	0	53.7	50	130	0.30	18.5	25	
4-Nitrophenol	0.27	0.85	1.7	0	15.7	30	132	0	200	25	JRQ
Benzoic acid	1.0	1.0	1.4	0	0	40	117	0	0	25	QUY
Benzyl alcohol	0.46	0.68	0.68	0	67.3	29	122	0.38	18.9	25	J
Bis(2-chloroethoxy) methane	0.52	0.16	0.68	0	75.9	36	121	0.45	14.2	25	
Bis(2-chloroethyl) ether	0.48	0.16	0.68	0	70.8	31	120	0.42	14.8	25	
Bis(2-chloroisopropyl)ether	0.48	0.16	0.68	0	70.7	33	131	0.42	14.0	25	Z
Bis(2-ethylhexyl) phthalate	0.57	0.16	0.68	0	83.4	51	133	0.49	15.3	25	
Butyl benzyl phthalate	0.54	0.16	0.68	0	79.6	48	132	0.46	16.2	25	
Carbazole	0.49	0.16	0.68	0	71.8	50	123	0.43	12.3	25	
Di-n-butyl phthalate	0.50	0.16	0.68	0	73.3	51	128	0.44	12.5	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**1606593-006AMSD1**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**88307**
Client ID:	**ZZZZZZ**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1717292**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	0.58	0.16	0.68	0	85.5	45	140	0.51	14.0	25	
Dibenzofuran	0.51	0.16	0.68	0	74.9	44	120	0.45	12.3	25	
Diethyl phthalate	0.51	0.16	0.68	0	74.3	50	124	0.44	14.2	25	
Dimethyl phthalate	0.49	0.16	0.68	0	71.7	48	124	0.43	14.2	25	
Hexachlorobenzene	0.53	0.16	0.68	0	77.3	45	122	0.46	12.9	25	
Hexachlorobutadiene	0.51	0.051	0.68	0	74.9	32	123	0.44	14.9	25	
Hexachloroethane	0.49	0.16	0.68	0	71.7	28	117	0.42	15.8	25	
Isophorone	0.48	0.16	0.68	0	70.3	30	122	0.42	13.3	25	
N-Nitrosodi-n-propylamine	0.50	0.16	0.68	0	73.2	50	130	0.42	17.7	25	
N-Nitrosodimethylamine	0.44	0.16	0.68	0	64.8	23	120	0.37	16.9	25	
N-Nitrosodiphenylamine	0.17	0.16	0.68	0	24.5	38	127	0.15	8.07	25	Q
Nitrobenzene	0.51	0.16	0.68	0	74.5	34	122	0.44	15.4	25	
Pentachlorophenol	0.078	0.16	0.68	0	11.3	25	133	0.078	1.09	25	JQ
Phenol	0.42	0.16	0.68	0	61.4	34	121	0.35	18.4	25	
Surr: 2,4,6-Tribromophenol	270		854.6		31.8	39	132		0	25	JQ
Surr: 2-Fluorobiphenyl	670		854.6		78.9	44	115		0	25	
Surr: 2-Fluorophenol	410		854.6		48.1	35	115		0	25	
Surr: Nitrobenzene-d5	740		854.6		86.9	37	122		0	25	
Surr: Phenol-d5	540		854.6		62.9	33	122		0	25	
Surr: Terphenyl-d14	730		854.6		85.1	54	127		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	**MB-40228**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**87669**
Client ID:	**PBS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1703112**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00066	0.00066									U
2-Methylnaphthalene	0.00066	0.00066									U
Acenaphthene	0.00066	0.00066									U
Acenaphthylene	0.00066	0.00066									U
Anthracene	0.00066	0.00066									U
Benzo(a)anthracene	0.00066	0.00066									U
Benzo(a)pyrene	0.00066	0.00066									U
Benzo(b)fluoranthene	0.00066	0.00066									U
Benzo(g,h,i)perylene	0.00066	0.00066									U
Benzo(k)fluoranthene	0.00066	0.00066									U
Chrysene	0.00066	0.00066									U
Dibenzo(a,h)anthracene	0.00066	0.00066									U
Fluoranthene	0.00066	0.00066									U
Fluorene	0.00066	0.00066									U
Indeno(1,2,3-cd)pyrene	0.00066	0.00066									U
Naphthalene	0.00066	0.00066									U
Phenanthrene	0.00066	0.00066									U
Pyrene	0.00066	0.00066									U
Surr: 2-Fluorobiphenyl	16		16.48		99.5	46	115				
Surr: Nitrobenzene-d5	17		16.48		105	44	125				
Surr: Terphenyl-d14	18		16.48		108	58	133				

Sample ID:	**LCS-40228**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**87669**
Client ID:	**LCSS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1703113**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00067	0.013	0	95.9	43	111				
2-Methylnaphthalene	0.012	0.00067	0.013	0	87.4	39	114				
Acenaphthene	0.012	0.00067	0.013	0	92.4	44	111				
Acenaphthylene	0.012	0.00067	0.013	0	91.9	39	116				
Anthracene	0.012	0.00067	0.013	0	90.3	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	LCS-40228	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	87669
Client ID:	LCSS	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1703113

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.013	0.00067	0.013	0	98.3	54	122				
Benzo(a)pyrene	0.012	0.00067	0.013	0	90.5	50	125				
Benzo(b)fluoranthene	0.012	0.00067	0.013	0	92.6	53	128				
Benzo(g,h,i)perylene	0.012	0.00067	0.013	0	93.9	49	127				
Benzo(k)fluoranthene	0.0095	0.00067	0.013	0	71.9	56	123				
Chrysene	0.012	0.00067	0.013	0	91.9	57	118				
Dibenzo(a,h)anthracene	0.012	0.00067	0.013	0	93.9	50	129				
Fluoranthene	0.013	0.00067	0.013	0	95.3	55	119				
Fluorene	0.012	0.00067	0.013	0	90.4	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00067	0.013	0	93.9	49	130				
Naphthalene	0.011	0.00067	0.013	0	86.4	38	111				
Phenanthrene	0.012	0.00067	0.013	0	93.0	49	113				
Pyrene	0.013	0.00067	0.013	0	94.7	55	117				
Surr: 2-Fluorobiphenyl	18		16.57		107	46	115				
Surr: Nitrobenzene-d5	17		16.57		104	44	125				
Surr: Terphenyl-d14	20		16.57		118	58	133				

Sample ID:	1606512-012AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87825
Client ID:	ZZZZZZ	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1707066

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.033	0.00087	0.017	0.0045	168	44	111				Q
Acenaphthylene	0.047	0.00087	0.017	0.0050	245	39	116				JQ
Anthracene	0.063	0.00087	0.017	0.043	117	50	114				JQ
Benzo(a)anthracene	0.19	0.00087	0.017	0.045	859	54	122				JQ
Benzo(a)pyrene	0.18	0.00087	0.017	0.041	800	50	125				JQ
Benzo(b)fluoranthene	0.29	0.00087	0.017	0.066	1,290	53	128				JQ
Benzo(g,h,i)perylene	0.060	0.00087	0.017	0.020	233	49	127				JQ
Benzo(k)fluoranthene	0.064	0.00087	0.017	0.025	221	56	123				JQ
Chrysene	0.18	0.00087	0.017	0.044	808	57	118				JQ
Dibenzo(a,h)anthracene	0.027	0.00087	0.017	0.0012	149	50	129				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40228

Sample ID:	1606512-012AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87825
Client ID:	ZZZZZZ	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1707066

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Fluoranthene	0.33	0.00087	0.017	0.089	1,420	55	119				JQ
Fluorene	0.037	0.00087	0.017	0.0048	189	47	114				Q
Indeno(1,2,3-cd)pyrene	0.061	0.00087	0.017	0.019	246	49	130				JQ
Phenanthrene	0.19	0.00087	0.017	0.042	846	49	113				JQ
Pyrene	0.30	0.00087	0.017	0.075	1,280	55	117				JQ
Surr: 2-Fluorobiphenyl	22		21.54		103	46	115				
Surr: Nitrobenzene-d5	25		21.54		114	44	125				
Surr: Terphenyl-d14	26		21.54		123	58	133				

Sample ID:	1606512-012AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87825
Client ID:	ZZZZZZ	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1707067

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.022	0.00088	0.017	0.0045	103	44	111	0.033	39.3	25	R
Acenaphthylene	0.027	0.00088	0.017	0.0050	129	39	116	0.047	52.9	25	RQ
Anthracene	0.030	0.00088	0.017	0.043	-74.8	50	114	0.063	70.8	25	RQ
Benzo(a)anthracene	0.062	0.00088	0.017	0.045	102	54	122	0.19	102	25	JR
Benzo(a)pyrene	0.057	0.00088	0.017	0.041	93.7	50	125	0.18	103	25	JR
Benzo(b)fluoranthene	0.076	0.00088	0.017	0.066	57.6	53	128	0.29	117	25	JR
Benzo(g,h,i)perylene	0.022	0.00088	0.017	0.020	14.2	49	127	0.060	91.2	25	RQ
Benzo(k)fluoranthene	0.044	0.00088	0.017	0.025	108	56	123	0.064	35.5	25	JR
Chrysene	0.058	0.00088	0.017	0.044	78.3	57	118	0.18	104	25	JR
Dibenzo(a,h)anthracene	0.015	0.00088	0.017	0.0012	80.7	50	129	0.027	55.4	25	R
Fluoranthene	0.10	0.00088	0.017	0.089	81.8	55	119	0.33	106	25	JR
Fluorene	0.022	0.00088	0.017	0.0048	99.2	47	114	0.037	51.3	25	R
Indeno(1,2,3-cd)pyrene	0.024	0.00088	0.017	0.019	27.8	49	130	0.061	87.6	25	RQ
Phenanthrene	0.048	0.00088	0.017	0.042	33.7	49	113	0.19	119	25	JRQ
Pyrene	0.093	0.00088	0.017	0.075	103	55	117	0.30	104	25	JR
Surr: 2-Fluorobiphenyl	24		21.78		112	46	115		0	25	
Surr: Nitrobenzene-d5	28		21.78		127	44	125		0	25	Q
Surr: Terphenyl-d14	29		21.78		132	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	**MB-1-40228**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**88044**
Client ID:	**PBS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1711881**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.00066	0.00066									U
Acenaphthylene	0.00066	0.00066									U
Anthracene	0.00066	0.00066									U
Benzo(a)anthracene	0.00066	0.00066									U
Benzo(a)pyrene	0.00066	0.00066									U
Benzo(b)fluoranthene	0.00066	0.00066									U
Benzo(g,h,i)perylene	0.00066	0.00066									U
Benzo(k)fluoranthene	0.00066	0.00066									U
Chrysene	0.00066	0.00066									U
Dibenzo(a,h)anthracene	0.00066	0.00066									U
Fluoranthene	0.00066	0.00066									U
Fluorene	0.00066	0.00066									U
Indeno(1,2,3-cd)pyrene	0.00066	0.00066									U
Phenanthrene	0.00066	0.00066									U
Pyrene	0.00066	0.00066									U
Surr: 2-Fluorobiphenyl	16		16.48		99.5	46	115				
Surr: Nitrobenzene-d5	17		16.48		105	44	125				
Surr: Terphenyl-d14	18		16.48		108	58	133				

Sample ID:	**LCS-1-40228**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**88044**
Client ID:	**LCSS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1711882**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.012	0.00067	0.013	0	92.4	44	111				
Acenaphthylene	0.012	0.00067	0.013	0	91.9	39	116				
Anthracene	0.012	0.00067	0.013	0	90.3	50	114				
Benzo(a)anthracene	0.013	0.00067	0.013	0	98.3	54	122				
Benzo(a)pyrene	0.012	0.00067	0.013	0	90.5	50	125				
Benzo(b)fluoranthene	0.012	0.00067	0.013	0	92.6	53	128				
Benzo(g,h,i)perylene	0.012	0.00067	0.013	0	93.9	49	127				
Benzo(k)fluoranthene	0.0095	0.00067	0.013	0	71.9	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	**LCS-1-40228**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**88044**
Client ID:	**LCSS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1711882**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.012	0.00067	0.013	0	91.9	57	118				
Dibenzo(a,h)anthracene	0.012	0.00067	0.013	0	93.9	50	129				
Fluoranthene	0.013	0.00067	0.013	0	95.3	55	119				
Fluorene	0.012	0.00067	0.013	0	90.4	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00067	0.013	0	93.9	49	130				
Phenanthrene	0.012	0.00067	0.013	0	93.0	49	113				
Pyrene	0.013	0.00067	0.013	0	94.7	55	117				
Surr: 2-Fluorobiphenyl	18		16.57		107	46	115				
Surr: Nitrobenzene-d5	17		16.57		104	44	125				
Surr: Terphenyl-d14	20		16.57		118	58	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40255**

Sample ID:	**MB-40255**	Samp Type:	**MBLK**	Test Code:	**SW_8330S**	Units:	**mg/Kg**	Prep Date:	**6/23/2016**	RunNo:	**87217**
Client ID:	**PBS**	Batch ID:	**40255**	TestNo:	**SW8330**			Analysis Date:	**6/28/2016**	SeqNo:	**1692902**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene	0.080	0.080									U
1,3-Dinitrobenzene [1,3-DNB]	0.080	0.080									U
2,4,6-Trinitrotoluene	0.080	0.080									U
2,4-Dinitrotoluene	0.080	0.080									U
2,6-Dinitrotoluene	0.080	0.080									U
2-Amino-4,6-dinitrotoluene	0.080	0.080									U
2-Nitrotoluene	0.080	0.080									U
3-Nitrotoluene	0.080	0.080									U
4-Amino-2,6-dinitrotoluene	0.080	0.080									U
4-Nitrotoluene	0.080	0.080									U
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.080	0.080									U
Nitrobenzene	0.080	0.080									U
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.080	0.080									U
Tetryl	0.080	0.080									U
Surr: 4-Nitroaniline	800		800.0		100	70	130				

Sample ID:	**Comp Blk**	Samp Type:	**MBLK**	Test Code:	**SW_8330S**	Units:	**mg/Kg**	Prep Date:	**5/23/2016**	RunNo:	**87217**
Client ID:	**PBS**	Batch ID:	**40255**	TestNo:	**SW8330**			Analysis Date:	**6/29/2016**	SeqNo:	**1692903**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene	0.080	0.080									U
1,3-Dinitrobenzene [1,3-DNB]	0.080	0.080									U
2,4,6-Trinitrotoluene	0.080	0.080									U
2,4-Dinitrotoluene	0.080	0.080									U
2,6-Dinitrotoluene	0.080	0.080									U
2-Amino-4,6-dinitrotoluene	0.080	0.080									U
2-Nitrotoluene	0.080	0.080									U
3-Nitrotoluene	0.080	0.080									U
4-Amino-2,6-dinitrotoluene	0.080	0.080									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40255**

Sample ID:	**Comp Blk**	Samp Type:	**MBLK**	Test Code:	**SW_8330S**	Units:	**mg/Kg**	Prep Date:	**5/23/2016**	RunNo:	**87217**
Client ID:	**PBS**	Batch ID:	**40255**	TestNo:	**SW8330**			Analysis Date:	**6/29/2016**	SeqNo:	**1692903**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitrotoluene	0.080	0.080									U
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.080	0.080									U
Nitrobenzene	0.080	0.080									U
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.080	0.080									U
Tetryl	0.080	0.080									U
Surr: 4-Nitroaniline	830		800.0		103	70	130				

Sample ID:	**LCS-40255**	Samp Type:	**LCS**	Test Code:	**SW_8330S**	Units:	**mg/Kg**	Prep Date:	**6/23/2016**	RunNo:	**87217**
Client ID:	**LCSS**	Batch ID:	**40255**	TestNo:	**SW8330**			Analysis Date:	**6/29/2016**	SeqNo:	**1692904**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene	0.78	0.080	0.80	0	97.4	80	116				
1,3-Dinitrobenzene [1,3-DNB]	0.71	0.080	0.80	0	88.2	73	119				
2,4,6-Trinitrotoluene	0.87	0.080	0.80	0	109	71	120				
2,4-Dinitrotoluene	0.84	0.080	0.80	0	106	75	121				
2,6-Dinitrotoluene	0.87	0.080	0.80	0	108	79	117				
2-Amino-4,6-dinitrotoluene	0.84	0.080	0.80	0	106	71	123				
2-Nitrotoluene	0.85	0.080	0.80	0	106	70	124				
3-Nitrotoluene	0.78	0.080	0.80	0	98.1	67	129				
4-Amino-2,6-dinitrotoluene	0.96	0.080	0.80	0	119	64	127				
4-Nitrotoluene	0.84	0.080	0.80	0	105	71	124				
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.85	0.080	0.80	0	107	67	129				
Nitrobenzene	0.85	0.080	0.80	0	106	67	129				
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.86	0.080	0.80	0	107	74	124				
Tetryl	1.0	0.080	0.80	0	125	68	135				
Surr: 4-Nitroaniline	820		800.0		102	70	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40255

Sample ID:	1606524-001BDUP	Samp Type:	DUP	Test Code:	SW_8330S	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	87217
Client ID:	MP-SS02-01LR1	Batch ID:	40255	TestNo:	SW8330			Analysis Date:	6/29/2016	SeqNo:	1692908

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene	0.076	0.076						0	0	20	U
1,3-Dinitrobenzene [1,3-DNB]	0.076	0.076						0	0	20	U
2,4,6-Trinitrotoluene	0.076	0.076						0	0	20	U
2,4-Dinitrotoluene	0.076	0.076						0	0	20	U
2,6-Dinitrotoluene	0.076	0.076						0	0	20	U
2-Amino-4,6-dinitrotoluene	0.076	0.076						0	0	20	U
2-Nitrotoluene	0.076	0.076						0	0	20	U
3-Nitrotoluene	0.076	0.076						0	0	20	U
4-Amino-2,6-dinitrotoluene	0.076	0.076						0	0	20	U
4-Nitrotoluene	0.076	0.076						0	0	20	U
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.076	0.076						0	0	20	U
Nitrobenzene	0.076	0.076						0	0	20	U
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.076	0.076						0	0	20	U
Tetryl	0.076	0.076						0	0	20	U
Surr: 4-Nitroaniline	720		756.1		95.3	70	130		0	20	

Sample ID:	1606524-006AMS	Samp Type:	MS	Test Code:	SW_8330S	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	87217
Client ID:	EFO-SS01-01MS1	Batch ID:	40255	TestNo:	SW8330			Analysis Date:	6/29/2016	SeqNo:	1692915

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene	0.78	0.078	0.78	0	101	80	116				
1,3-Dinitrobenzene [1,3-DNB]	0.71	0.078	0.78	0	91.5	73	119				
2,4,6-Trinitrotoluene	0.76	0.078	0.78	0	97.7	71	120				
2,4-Dinitrotoluene	0.83	0.078	0.78	0	107	75	121				
2,6-Dinitrotoluene	0.95	0.078	0.78	0	121	79	117				Q
2-Amino-4,6-dinitrotoluene	0.79	0.078	0.78	0	101	71	123				
2-Nitrotoluene	0.83	0.078	0.78	0	107	70	124				
3-Nitrotoluene	0.73	0.078	0.78	0	93.6	67	129				
4-Amino-2,6-dinitrotoluene	0.89	0.078	0.78	0	115	64	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40255

Sample ID: **1606524-006AMS** Samp Type: **MS** Test Code: **SW_8330S** Units: **mg/Kg** Prep Date: **6/23/2016** RunNo: **87217**

Client ID: **EFO-SS01-01MS1** Batch ID: **40255** TestNo: **SW8330** Analysis Date: **6/29/2016** SeqNo: **1692915**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitrotoluene	0.73	0.078	0.78	0	93.6	71	124				
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.82	0.078	0.78	0	105	67	129				
Nitrobenzene	0.87	0.078	0.78	0	111	67	129				
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.80	0.078	0.78	0	102	74	124				
Tetryl	0.97	0.078	0.78	0	125	68	135				
Surr: 4-Nitroaniline	740		780.5		95.1	70	130				

Sample ID: **1606524-006AMSD** Samp Type: **MSD** Test Code: **SW_8330S** Units: **mg/Kg** Prep Date: **6/23/2016** RunNo: **87217**

Client ID: **EFO-SS01-01SD1** Batch ID: **40255** TestNo: **SW8330** Analysis Date: **6/29/2016** SeqNo: **1692916**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene	0.78	0.078	0.78	0	99.2	80	116	0.78	0.996	20	
1,3-Dinitrobenzene [1,3-DNB]	0.72	0.078	0.78	0	92.4	73	119	0.71	1.26	20	
2,4,6-Trinitrotoluene	0.77	0.078	0.78	0	99.0	71	120	0.76	1.54	20	
2,4-Dinitrotoluene	0.79	0.078	0.78	0	100	75	121	0.83	5.86	20	
2,6-Dinitrotoluene	0.78	0.078	0.78	0	99.6	79	117	0.95	19.4	20	
2-Amino-4,6-dinitrotoluene	0.77	0.078	0.78	0	98.0	71	123	0.79	3.09	20	
2-Nitrotoluene	0.82	0.078	0.78	0	105	70	124	0.83	1.61	20	
3-Nitrotoluene	0.75	0.078	0.78	0	95.3	67	129	0.73	2.12	20	
4-Amino-2,6-dinitrotoluene	0.93	0.078	0.78	0	118	64	127	0.89	3.50	20	
4-Nitrotoluene	0.84	0.078	0.78	0	108	71	124	0.73	14.5	20	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.77	0.078	0.78	0	98.9	67	129	0.82	5.71	20	
Nitrobenzene	0.88	0.078	0.78	0	112	67	129	0.87	1.21	20	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.82	0.078	0.78	0	105	74	124	0.80	3.13	20	
Tetryl	1.0	0.078	0.78	0	129	68	135	0.97	3.91	20	
Surr: 4-Nitroaniline	800		782.8		103	70	130		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	**LCS-40258**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**%Rec**	Prep Date:	**6/26/2016**	RunNo:	**87786**
Client ID:	**LCSS**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/1/2016**	SeqNo:	**1706011**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	20		16.26		124	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		145	44	125				Q
Surr: Terphenyl-d14	22		16.26		134	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40326**

Sample ID:	MB-40326	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	PBS	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691398

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	8.6	20									J
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40326	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	LCSS	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691399

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	113	74	119				
Antimony	26	1.0	25	0	104	79	114				
Arsenic	24	2.0	25	0	95.2	82	111				
Barium	25	10	25	0	98.8	83	113				
Beryllium	25	0.25	25	0	101	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40326

Sample ID:	LCS-40326	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	LCSS	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691399

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	25	0.25	25	0	98.7	82	113				
Calcium	250	50	250	0	102	81	116				
Chromium	26	0.50	25	0	106	85	113				
Cobalt	26	1.0	25	0	105	85	112				
Copper	27	5.0	25	0	109	81	117				
Iron	260	15	250	0	102	81	118				
Lead	26	5.0	25	0	103	81	112				
Magnesium	250	50	250	0	102	78	115				
Manganese	28	1.0	25	0	110	84	114				
Nickel	25	5.0	25	0	101	83	113				
Potassium	220	20	250	0	89.5	81	116				
Selenium	26	2.0	25	0	105	78	111				
Silver	25	1.0	25	0	99.5	82	112				
Sodium	240	50	250	0	96.9	83	118				
Vanadium	26	2.5	25	0	103	82	114				
Zinc	25	5.0	25	0	99.2	82	113				

Sample ID:	1606601-008CMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	ZZZZZZ	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691401

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	14,000	3.8	19	10,000	16,900	74	119				Q
Antimony	23	0.76	19	3.8	103	79	114				
Arsenic	20	1.5	19	2.5	94.8	82	111				
Barium	64	7.6	19	35	152	83	113				Q
Beryllium	19	0.19	19	0.20	100	83	113				
Cadmium	19	0.19	19	0.14	102	82	113				
Calcium	1,100	38	190	650	229	81	116				Q
Chromium	40	0.38	19	18	117	85	113				Q
Cobalt	23	0.76	19	3.8	101	85	112				
Copper	72	3.8	19	42	162	81	117				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40326

Sample ID: **1606601-008CMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/1/2016** RunNo: **87158**

Client ID: **ZZZZZZ** Batch ID: **40326** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/5/2016** SeqNo: **1691401**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	17,000	11	190	14,000	1,820	81	118				JQ
Lead	26	3.8	19	7.4	97.5	81	112				
Magnesium	3,000	38	190	2,100	453	78	115				JQ
Manganese	310	0.76	19	230	414	84	114				JQ
Nickel	30	3.8	19	9.3	109	83	113				
Potassium	2,000	15	190	1,400	328	81	116				JQ
Selenium	16	1.5	19	0	83.2	78	111				
Silver	19	0.76	19	0	100	82	112				
Sodium	330	38	190	83	129	83	118				Q
Vanadium	47	1.9	19	23	123	82	114				JQ
Zinc	150	3.8	19	110	214	82	113				Q

Sample ID: **1606601-008CMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/1/2016** RunNo: **87158**

Client ID: **ZZZZZZ** Batch ID: **40326** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/5/2016** SeqNo: **1691402**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	13,000	3.8	19	10,000	14,300	74	119	14,000	3.36	20	Q
Antimony	24	0.76	19	3.8	106	79	114	23	3.50	20	
Arsenic	22	1.5	19	2.5	99.9	82	111	20	5.78	20	
Barium	60	7.6	19	35	134	83	113	64	4.99	20	Q
Beryllium	20	0.19	19	0.20	103	83	113	19	3.94	20	
Cadmium	20	0.19	19	0.14	103	82	113	19	2.60	20	
Calcium	990	38	190	650	181	81	116	1,100	8.25	20	Q
Chromium	41	0.38	19	18	123	85	113	40	3.22	20	Q
Cobalt	23	0.76	19	3.8	103	85	112	23	2.93	20	
Copper	69	3.8	19	42	146	81	117	72	3.82	20	Q
Iron	16,000	11	190	14,000	1,250	81	118	17,000	6.27	20	JQ
Lead	27	3.8	19	7.4	104	81	112	26	5.94	20	
Magnesium	2,700	38	190	2,100	289	78	115	3,000	10.7	20	JQ
Manganese	290	0.76	19	230	303	84	114	310	6.78	20	JQ
Nickel	31	3.8	19	9.3	112	83	113	30	2.91	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40326

Sample ID:	1606601-008CMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	ZZZZZZ	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691402

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,800	15	190	1,400	244	81	116	2,000	7.91	20	Q
Selenium	16	1.5	19	0	84.4	78	111	16	2.75	20	
Silver	20	0.76	19	0	102	82	112	19	3.49	20	
Sodium	320	38	190	83	122	83	118	330	2.96	20	Q
Vanadium	46	1.9	19	23	120	82	114	47	0.470	20	JQ
Zinc	150	3.8	19	110	208	82	113	150	0.517	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40376**

Sample ID:	MB-40376	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	PBS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698120

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40376	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	LCSS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698121

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	111	74	119				
Antimony	24	1.0	25	0	96.1	79	114				
Arsenic	22	2.0	25	0	89.4	82	111				
Barium	25	10	25	0	101	83	113				
Beryllium	25	0.25	25	0	99.4	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40376

Sample ID:	LCS-40376	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	LCSS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698121

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	90.1	82	113				
Calcium	230	50	250	0	91.9	81	116				
Chromium	25	0.50	25	0	98.1	85	113				
Cobalt	24	1.0	25	0	96.2	85	112				
Copper	25	5.0	25	0	99.4	81	117				
Iron	240	15	250	0	94.9	81	118				
Lead	24	5.0	25	0	95.4	81	112				
Magnesium	240	50	250	0	96.2	78	115				
Manganese	25	1.0	25	0	101	84	114				
Nickel	23	5.0	25	0	93.8	83	113				
Potassium	240	20	250	0	95.6	81	116				
Selenium	23	2.0	25	0	93.3	78	111				
Silver	23	1.0	25	0	90.3	82	112				
Sodium	250	50	250	0	98.0	83	118				
Vanadium	24	2.5	25	0	95.9	82	114				
Zinc	24	5.0	25	0	94.5	82	113				

Sample ID:	1606606-002BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	ZZZZZZ	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698123

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,100	3.5	18	7,300	4,700	74	119				Q
Antimony	19	0.70	18	2.9	90.2	79	114				
Arsenic	17	1.4	18	1.7	87.1	82	111				
Barium	56	7.0	18	38	102	83	113				
Beryllium	17	0.18	18	0.072	94.8	83	113				
Cadmium	16	0.18	18	0	90.9	82	113				
Calcium	810	35	180	620	104	81	116				
Chromium	31	0.35	18	14	96.6	85	113				
Cobalt	18	0.70	18	3.0	87.2	85	112				
Copper	47	3.5	18	29	99.1	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40376**

Sample ID: **1606606-002BMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/8/2016** RunNo: **87450**

Client ID: **ZZZZZZ** Batch ID: **40376** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/18/2016** SeqNo: **1698123**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,800	11	180	9,700	55.7	81	118				JQ
Lead	18	3.5	18	2.6	89.8	81	112				
Magnesium	2,400	35	180	2,200	113	78	115				J
Manganese	180	0.70	18	170	50.8	84	114				Q
Nickel	23	3.5	18	6.8	90.5	83	113				
Potassium	1,700	14	180	1,500	135	81	116				Q
Selenium	13	1.4	18	0	73.0	78	111				Q
Silver	16	0.70	18	0	90.1	82	112				
Sodium	280	35	180	110	99.2	83	118				
Vanadium	34	1.8	18	18	89.3	82	114				
Zinc	31	3.5	18	17	78.5	82	113				Q

Sample ID: **1606606-002BMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/8/2016** RunNo: **87450**

Client ID: **ZZZZZZ** Batch ID: **40376** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/18/2016** SeqNo: **1698124**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,500	3.5	18	7,300	1,420	74	119	8,100	7.34	20	Q
Antimony	19	0.71	18	2.9	90.6	79	114	19	0.932	20	
Arsenic	18	1.4	18	1.7	90.6	82	111	17	4.13	20	
Barium	53	7.1	18	38	87.3	83	113	56	4.70	20	
Beryllium	18	0.18	18	0.072	98.8	83	113	17	4.73	20	
Cadmium	16	0.18	18	0	91.2	82	113	16	1.05	20	
Calcium	790	35	180	620	95.5	81	116	810	1.65	20	
Chromium	30	0.35	18	14	90.6	85	113	31	3.11	20	
Cobalt	19	0.71	18	3.0	87.6	85	112	18	0.831	20	
Copper	46	3.5	18	29	92.2	81	117	47	2.40	20	
Iron	9,300	11	180	9,700	-230	81	118	9,800	5.27	20	JQ
Lead	19	3.5	18	2.6	90.3	81	112	18	1.01	20	
Magnesium	2,200	35	180	2,200	36.5	78	115	2,400	5.80	20	JQ
Manganese	180	0.71	18	170	81.1	84	114	180	3.04	20	JQ
Nickel	23	3.5	18	6.8	89.9	83	113	23	0.0527	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40376

Sample ID:	1606606-002BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	ZZZZZZ	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698124

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,700	14	180	1,500	109	81	116	1,700	2.59	20	
Selenium	14	1.4	18	0	80.9	78	111	13	10.9	20	
Silver	16	0.71	18	0	90.9	82	112	16	1.46	20	
Sodium	290	35	180	110	106	83	118	280	4.30	20	
Vanadium	33	1.8	18	18	86.4	82	114	34	1.26	20	
Zinc	31	3.5	18	17	76.0	82	113	31	1.14	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40377

Sample ID:	1606512-012BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	ZZZZZZ	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697231

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.21	0.043	0.22	0	94.9	46	129				
Aroclor 1260	0.21	0.043	0.22	0	96.9	45	134				
Surr: Tetrachloro-m-xylene	9.5		10.96		86.4	44	130				
Surr: Decachlorobiphenyl	10		10.96		94.0	40	135				

Sample ID:	1606512-012BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	ZZZZZZ	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697232

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.21	0.043	0.22	0	97.2	46	129	0.21	1.93	25	
Aroclor 1260	0.22	0.043	0.22	0	103	45	134	0.21	5.54	25	
Surr: Tetrachloro-m-xylene	9.9		10.91		90.8	44	130		0	25	
Surr: Decachlorobiphenyl	11		10.91		103	40	135		0	25	

Sample ID:	LCS-40377	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	LCSS	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697259

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.033	0.17	0	87.5	46	129				
Aroclor 1260	0.15	0.033	0.17	0	91.9	45	134				
Surr: Tetrachloro-m-xylene	6.5		8.317		78.5	44	130				
Surr: Decachlorobiphenyl	7.6		8.317		91.5	40	135				

Sample ID:	MB-40377	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	PBS	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697260

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40377

Sample ID:	MB-40377	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	PBS	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697260

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	8.6		8.330		103	44	130				
Surr: Decachlorobiphenyl	9.6		8.330		116	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40482**

Sample ID:	**1606467-020FMS**	Samp Type:	**MS**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**ZZZZZZ**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699649**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	6.4	0.13	6.7	0.041	94.6	83	118				G	

Sample ID:	**1606467-020FMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**ZZZZZZ**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699650**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.4	0.14	6.8	0.041	108	83	118	6.4	13.5	20	G	

Sample ID:	**LCS-40482**	Samp Type:	**LCS**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**LCSS**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699651**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	10	0.20	10	0	100	83	118				G	

Sample ID:	**MB-40482**	Samp Type:	**MBLK**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/20/2016**	RunNo:	**87520**	
Client ID:	**PBS**	Batch ID:	**40482**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1699652**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	0.20	0.20									UG	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86767

Sample ID:	1606512-006C DUP	Samp Type:	DUP	Test Code:	PMOIST	Units:	wt%	Prep Date:	6/16/2016	RunNo:	86767
Client ID:	ZZZZZZ	Batch ID:	R86767	TestNo:	D2216			Analysis Date:	6/16/2016	SeqNo:	1683369

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	73	1.0						72.02	0.899	20	

Sample ID:	1606524-006A DUP	Samp Type:	DUP	Test Code:	PMOIST	Units:	wt%	Prep Date:	6/16/2016	RunNo:	86767
Client ID:	EFO-SS01-01LR1	Batch ID:	R86767	TestNo:	D2216			Analysis Date:	6/16/2016	SeqNo:	1683384

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	7.8	1.0						8.428	8.12	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86778**

Sample ID:	**1606524-012B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/17/2016**	RunNo:	**86778**
Client ID:	**H14-SB01-07LR1**	Batch ID:	**R86778**	TestNo:	**D2216**			Analysis Date:	**6/17/2016**	SeqNo:	**1684463**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	8.1	1.0						8.573	5.69	20	

Sample ID:	**1606525-015D DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/17/2016**	RunNo:	**86778**
Client ID:	**ZZZZZZ**	Batch ID:	**R86778**	TestNo:	**D2216**			Analysis Date:	**6/17/2016**	SeqNo:	**1684483**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	19	1.0						17.36	8.93	20	

RTI Laboratories - Definitions and Acronyms

WO#: 1606524

Date Reported: 8/29/2016
Revision v2

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606524

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061416-04
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
12 HI4-SB01	06	07	N	1	HI4-SB01-07	6/13/16	1510	SO	2	036							1		1			
13 ↓	06	07	FD	1	HI4-SB01-07DUP		1510	SO	2								1		1			
14 HI4-SB02	00	01	N	1	HI4-SB02-01		1410	SS	2								1		1			ID: HI4-SS02-01
15 ↓	24	25	N	1	HI4-SB02-01		1555	SO	2								1		1			XX
16 HI4-SB03	00	01	N	1	HI4-SS03-01		1525	SS	2								1		1			
17 ↓	05	06	N	1	HI4-SB03-06		1535	SO	2								1		1			Time: 1532

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/14/16	Time 1400	1. Received By / Company	Transfer to FedEx	Date 6/14/16	Time 1400
2. Relinquished By / Company		Date	Time	2. Received By / Company	FedEx	Date 6/15/16	Time 930
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5757

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

GLEC

** Sample ID on label HI4-SB02-25

1606524

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/14/16-04
Batch May16

	Database Information					Other Sample Information						Analysis												
	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	MP-SB02	00	01	N	1	MP-SS01-01	06/13/16	0825	SS	2	036						1					1	*
2	↓	00	01	FD	1	MP-SS01-01DUP		0925	SS	2							1					1	**
3	↓	10	11	N	1	MP-SB01-11		1130	SO	2							1					1	**
4	MP-SB03	00	01	N	1	MP-SS03-01		1115	SS	3							1		1			1	3 containers
5	↓	08	09	N	1	MP-SB03-09		1130	SO	3							1		1			1	
6	EFO-SB01	00	01	N	1	EFO-SS01-01		1005	SS	1												1	
6	↓	00	01	MS	1	EFO-SS01-01MS		1005	SS	1												1	
6	↓	00	01	SD	1	EFO-SS01-01MSD		1005	SS	1												1	
7	↓	~~00~~	~~01~~	N	1	EFO-SB01-00		105	SO	1												1	SBD:07, SED:00
8	H16-SB01	00	01	N	1	H16-SS01-01		1050	SS	3						1			1	1			
9	↓	04	05	N	1	H16-SB01-05		1055	SO	3						1			1	1			
10	↓	04	05	FD	1	H16-SB01-05DUP		1055	SO	3						1			1	1			
11	H14-SB01	00	01	N	1	H14-SS01-01	↓	1450	SS	2	↓							1		1			

		Date	Time		Date	Time
1.	Relinquished By / Company: Amanda Martin AECOM	06/14/16	1400	1. Received By / Company: Tracked to FedEx	06/14/16	1400
2.	Relinquished By / Company	Date	Time	2. Received By / Company: Kelly Shaffer / RTI	6/15/16	900
3.	Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: (no VOCs) Motor Pool, EFO, H-14, H-16

Shipment Method/Airbill No.: 810502025751

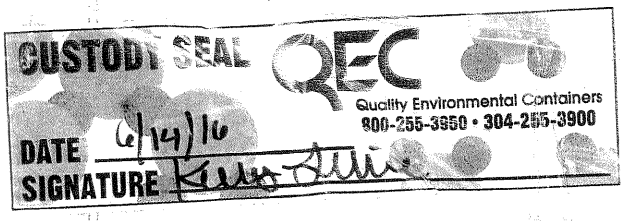
DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

* Sample ID on bottle label MP-SS02-01
** Sample ID on bottle " MP-SS02-01DUP

** Sample ID MPSB03-11 on bottle labels
Time 0935

6/15/16 2



Cooler # 038
Cooler ID x321
CoC ID 061416-04
tracking 810302025730
Cooler Temp Blank: 1.6°C

Cooler # 036
Cooler ID: GLEC
CoC 061416-04
tracking 810302025751
Cooler Temp Blank 3.6 °C

Cooler #036
Cooler ID RT1-77
CoC 061416-03
track# 810302025762
Cooler Temp Blank 1.6°C

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606525

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606525-001A	TB-SO-061316-01		6/13/2016 8:00 AM	6/15/2016 9:50 AM	Soil
1606525-001B	TB-SO-061316-01		6/13/2016 8:00 AM	6/15/2016 9:50 AM	Soil
1606525-001C	TB-SO-061316-01		6/13/2016 8:00 AM	6/15/2016 9:50 AM	Soil
1606525-002A	WDS-SB12-05		6/13/2016 8:35 AM	6/15/2016 9:50 AM	Soil
1606525-002B	WDS-SB12-05		6/13/2016 8:35 AM	6/15/2016 9:50 AM	Soil
1606525-002C	WDS-SB12-05		6/13/2016 8:35 AM	6/15/2016 9:50 AM	Soil
1606525-002D	WDS-SB12-05		6/13/2016 8:35 AM	6/15/2016 9:50 AM	Soil
1606525-003A	WDS-SB13-05		6/13/2016 8:20 AM	6/15/2016 9:50 AM	Soil
1606525-003B	WDS-SB13-05		6/13/2016 8:20 AM	6/15/2016 9:50 AM	Soil
1606525-003C	WDS-SB13-05		6/13/2016 8:20 AM	6/15/2016 9:50 AM	Soil
1606525-003D	WDS-SB13-05		6/13/2016 8:20 AM	6/15/2016 9:50 AM	Soil
1606525-004A	H5-SS01-01		6/13/2016 9:50 AM	6/15/2016 9:50 AM	Soil
1606525-004B	H5-SS01-01		6/13/2016 9:50 AM	6/15/2016 9:50 AM	Soil
1606525-004C	H5-SS01-01		6/13/2016 9:50 AM	6/15/2016 9:50 AM	Soil
1606525-004D	H5-SS01-01		6/13/2016 9:50 AM	6/15/2016 9:50 AM	Soil
1606525-005A	H5-SS01-02		6/13/2016 9:55 AM	6/15/2016 9:50 AM	Soil
1606525-005B	H5-SS01-02		6/13/2016 9:55 AM	6/15/2016 9:50 AM	Soil
1606525-005C	H5-SS01-02		6/13/2016 9:55 AM	6/15/2016 9:50 AM	Soil
1606525-005D	H5-SS01-02		6/13/2016 9:55 AM	6/15/2016 9:50 AM	Soil
1606525-006A	H5-SS02-01		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606525-006B	H5-SS02-01		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606525-006C	H5-SS02-01		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606525-006D	H5-SS02-01		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606525-007A	H5-SS02-01 DUP		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606525-007B	H5-SS02-01 DUP		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606525-007C	H5-SS02-01 DUP		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606525-007D	H5-SS02-01 DUP		6/13/2016 9:15 AM	6/15/2016 9:50 AM	Soil
1606525-008A	H5-SS02-02		6/13/2016 9:20 AM	6/15/2016 9:50 AM	Soil
1606525-008B	H5-SS02-02		6/13/2016 9:20 AM	6/15/2016 9:50 AM	Soil
1606525-008C	H5-SS02-02		6/13/2016 9:20 AM	6/15/2016 9:50 AM	Soil
1606525-008D	H5-SS02-02		6/13/2016 9:20 AM	6/15/2016 9:50 AM	Soil
1606525-009A	WDS-SB08-05		6/13/2016 1:20 PM	6/15/2016 9:50 AM	Soil
1606525-009B	WDS-SB08-05		6/13/2016 1:20 PM	6/15/2016 9:50 AM	Soil
1606525-009C	WDS-SB08-05		6/13/2016 1:20 PM	6/15/2016 9:50 AM	Soil
1606525-009D	WDS-SB08-05		6/13/2016 1:20 PM	6/15/2016 9:50 AM	Soil
1606525-010A	WDS-SB09-06		6/13/2016 1:05 PM	6/15/2016 9:50 AM	Soil
1606525-010B	WDS-SB09-06		6/13/2016 1:05 PM	6/15/2016 9:50 AM	Soil
1606525-010C	WDS-SB09-06		6/13/2016 1:05 PM	6/15/2016 9:50 AM	Soil
1606525-010D	WDS-SB09-06		6/13/2016 1:05 PM	6/15/2016 9:50 AM	Soil
1606525-011A	WDS-SB11-08		6/13/2016 10:40 AM	6/15/2016 9:50 AM	Soil
1606525-011B	WDS-SB11-08		6/13/2016 10:40 AM	6/15/2016 9:50 AM	Soil
1606525-011C	WDS-SB11-08		6/13/2016 10:40 AM	6/15/2016 9:50 AM	Soil
1606525-011D	WDS-SB11-08		6/13/2016 10:40 AM	6/15/2016 9:50 AM	Soil
1606525-012A	MP-SS02-01		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606525-012B	MP-SS02-01		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606525-012C	MP-SS02-01		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606525-012D	MP-SS02-01		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606525-013A	MP-SS02-01 DUP		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606525-013B	MP-SS02-01 DUP		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606525-013C	MP-SS02-01 DUP		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606525-013D	MP-SS02-01 DUP		6/13/2016 9:25 AM	6/15/2016 9:50 AM	Soil
1606525-014A	MP-SB02-11		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606525-014B	MP-SB02-11		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606525-014C	MP-SB02-11		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606525-014D	MP-SB02-11		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606525-015A	MP-SS03-01		6/13/2016 11:15 AM	6/15/2016 9:50 AM	Soil
1606525-015B	MP-SS03-01		6/13/2016 11:15 AM	6/15/2016 9:50 AM	Soil
1606525-015C	MP-SS03-01		6/13/2016 11:15 AM	6/15/2016 9:50 AM	Soil
1606525-015D	MP-SS03-01		6/13/2016 11:15 AM	6/15/2016 9:50 AM	Soil
1606525-016A	MP-SB03-09		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606525-016B	MP-SB03-09		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606525-016C	MP-SB03-09		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606525-016D	MP-SB03-09		6/13/2016 11:30 AM	6/15/2016 9:50 AM	Soil
1606525-017A	H16-SS01-01		6/13/2016 10:50 AM	6/15/2016 9:50 AM	Soil
1606525-017B	H16-SS01-01		6/13/2016 10:50 AM	6/15/2016 9:50 AM	Soil
1606525-017C	H16-SS01-01		6/13/2016 10:50 AM	6/15/2016 9:50 AM	Soil
1606525-017D	H16-SS01-01		6/13/2016 10:50 AM	6/15/2016 9:50 AM	Soil
1606525-018A	H16-SB01-05		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606525-018B	H16-SB01-05		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606525-018C	H16-SB01-05		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606525-018D	H16-SB01-05		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606525-019A	H16-SB01-05 DUP		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606525-019B	H16-SB01-05 DUP		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606525-019C	H16-SB01-05 DUP		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil
1606525-019D	H16-SB01-05 DUP		6/13/2016 10:55 AM	6/15/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical report revision: 9/16/16: Update LOQ for Benzene for samples 1606525-012A, -013A, -014A, -015A, and -016A.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Percent Moisture - ASTM-D2216
Volatile Organic Compounds - 8260C-ME
Volatile Organic Compounds - 8260C
Volatile Organic Compounds - 8260C-STAR

Analytical report revised 7/15/2016: Original report contained two extra compounds for VOC analysis that was not required in project EQAP.

Samples 1606525-004A, -005A, -006A, -007A, -008A and -009A were initially analyzed twice for Low-Level Volatile Organic Compounds. Responses for internal standards exceeded method specified criteria. Sample re-analyses were performed using the methanol preserved vials. The results for these samples were reported from the methanol vials with associated elevated reporting limits.

Analytical Comments for Test SW_8260S, Analytical Run No 86786, Batch ID R86786:
Sample VOA11B ICV 061616: ICV results for 1,2,3-Trichlorobenzene, 2-Methylnaphthalene, Chloroethane, Hexachlorobutadiene and Naphthalene exceeded the 20% criteria.
Sample VOA11B CCV 062016: CCV results for 2,2-Dichloropropane, 2-Methylnaphthalene, Carbon tetrachloride and Chloroethane exceeded the 20% criteria.
Sample VOA11B LCS 06201: Recoveries for 1,2,3-Trichlorobenzene, 2-Methylnaphthalene, Bromoform and Hexachlorobutadiene exceeded the control limits.
Sample VOA11B CCVE 062016: Ending CCV results for 2-Methylnaphthalene, Chloroethane and Hexachloroethane exceeded the 50% criteria.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86751, Batch ID R86751:
Sample VOA11B CCV 061716: CCV results for Acetone, Bromoform, Vinyl acetate exceeded the 20% criteria.
Sample VOA11B MBLK 0617: Acetone and Methylene chloride present in Method Blank at a concentration > 1/2 LOQ.
Sample VOA11B LCS 06171: Recoveries for Acetone, Bromoform and Methylene chloride exceeded control limits.
Sample VOA11B LCSD 0617: Recoveries for Acetone, Bromoform, Methylene chloride and Chlorodibromomethane exceeded control limits.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86773, Batch ID R86773:
Sample VOA11B CCV 061816: CCV results for 1,2-Dibromo-3-chloropropane, Acetone, Bromoform and Chlorodibromomethane exceeded the 20% criteria.
Sample VOA11B MBLK 0618: Acetone and Methylene Chloride were present in Method Blank at a concentration > 1/2 LOQ.
Sample VOA11B LCS 06181: Recoveries for 1,2-Dibromo-3-chloropropane, Acetone, Bromoform and Chlorodibromomethane exceeded control limits.
Sample VOA11B LCSD 0618: Recoveries for 2-Butanone, Acetone, Bromoform, Methylene chloride, Chlorodibromomethane, and cis-1,3-Dichloropropene exceeded control limits. RPD results for 2-Butanone and Acetone exceeded control limits.
Sample VOA11B CCVE 061816: Ending CCV results for Acetone exceeded the 50% criteria.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86807, Batch ID R86807:
Sample VOA11B CCV 062116: CCV results for Acetone, Bromoform, Carbon tetrachloride, Vinyl acetate exceeded the 20% criteria.
Sample VOA11B MBLK 0621: Acetone present in Method Blank at a concentration > 1/2 LOQ.
Sample VOA11B LCS 06211: Recoveries for 2-Butanone and Acetone exceeded control limits.
Sample VOA11B LCSD 0621: Recoveries for Acetone exceeded control limits. RPD results for 2-Butanone and Acetone exceeded control limits.
Sample VOA11B CCVE 062116: Ending CCV results for Vinyl acetate exceeded the 50% criteria.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 87289, Batch ID R87289:
Sample VOA11B LCSD 0618: Recovery for Naphthalene was outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 8:00:00 AM
Project: Camp Hero
Lab ID: 1606525-001 **Matrix:** Soil
Client Sample ID: TB-SO-061316-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00060	U	0.00029	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
1,1,1-Trichloroethane	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
1,1,2,2-Tetrachloroethane	0.00060	U	0.00053	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
1,1,2-Trichloroethane	0.00060	U	0.00039	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
1,1-Dichloroethane	0.00060	U	0.00015	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
1,1-Dichloroethene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
1,2,3-Trichloropropane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
1,2-Dibromo-3-chloropropane	0.0020	U	0.0014	0.0020	0.0050	mg/Kg	1	6/17/2016 8:14 AM
1,2-Dibromoethane	0.00060	U	0.00045	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
1,2-Dichloroethane	0.00060	U	0.00014	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
1,2-Dichloropropane	0.00060	U	0.00028	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
2-Butanone [MEK]	0.010	U	0.0059	0.010	0.020	mg/Kg	1	6/17/2016 8:14 AM
2-Hexanone	0.0020	U	0.00063	0.0020	0.0050	mg/Kg	1	6/17/2016 8:14 AM
Acetone	0.024	BYQ	0.00091	0.0020	0.010	mg/Kg	1	6/17/2016 8:14 AM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Bromodichloromethane	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Bromoform	0.00060	UYQ	0.00033	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Carbon disulfide	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Carbon tetrachloride	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Chlorobenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Chlorodibromomethane	0.00060	UQ	0.00035	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Chloroethane	0.0010	U	0.00076	0.0010	0.0020	mg/Kg	1	6/17/2016 8:14 AM
Chloroform	0.00060	U	0.00048	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Chloromethane	0.00060	U	0.00034	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
cis-1,2-Dichloroethene	0.00060	U	0.00056	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
cis-1,3-Dichloropropene	0.00060	U	0.00016	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Dichlorodifluoromethane [Freon-12]	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Methylene chloride	0.0084	BQ	0.0011	0.0020	0.0050	mg/Kg	1	6/17/2016 8:14 AM
Styrene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Tetrachloroethene	0.00060	U	0.00032	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Toluene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
trans-1,2-Dichloroethene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
trans-1,3-Dichloropropene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Trichloroethene	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Trichlorofluoromethane [Freon-11]	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/17/2016 8:14 AM
Vinyl acetate	0.00060	UY	0.00047	0.00060	0.0050	mg/Kg	1	6/17/2016 8:14 AM
Vinyl chloride	0.00060	U	0.00031	0.00060	0.00080	mg/Kg	1	6/17/2016 8:14 AM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg	1	6/17/2016 8:14 AM
Surr: 4-Bromofluorobenzene	87.1			79-119		%Rec	1	6/17/2016 8:14 AM
Surr: Dibromofluoromethane	92.9			78-119		%Rec	1	6/17/2016 8:14 AM
Surr: Toluene-d8	89.3			85-116		%Rec	1	6/17/2016 8:14 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 8:35:00 AM
Project: Camp Hero
Lab ID: 1606525-002 **Matrix:** Soil
Client Sample ID: WDS-SB12-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00061	U	0.00030	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
1,1,1-Trichloroethane	0.00061	U	0.00022	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
1,1,2,2-Tetrachloroethane	0.00061	U	0.00054	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
1,1,2-Trichloroethane	0.00061	U	0.00040	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
1,1-Dichloroethane	0.00061	U	0.00015	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
1,1-Dichloroethene	0.00061	U	0.00021	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
1,2,3-Trichloropropane	0.00061	U	0.00036	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
1,2-Dibromo-3-chloropropane	0.0020	U	0.0014	0.0020	0.0051	mg/Kg-dry	0.91	6/17/2016 12:12 PM
1,2-Dibromoethane	0.00061	U	0.00046	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
1,2-Dichloroethane	0.00061	U	0.00014	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
1,2-Dichloropropane	0.00061	U	0.00028	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
2-Butanone [MEK]	0.0070	J	0.0061	0.010	0.020	mg/Kg-dry	0.91	6/17/2016 12:12 PM
2-Hexanone	0.0020	U	0.00064	0.0020	0.0051	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Acetone	0.10	BQ Y	0.00093	0.0020	0.010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Benzene	0.00061	U	0.00028	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Bromodichloromethane	0.00061	U	0.00021	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Bromoform	0.00061	UY Q	0.00033	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Carbon disulfide	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Carbon tetrachloride	0.00061	U	0.00022	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Chlorobenzene	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Chlorodibromomethane	0.00061	UQ	0.00036	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Chloroethane	0.0010	U	0.00078	0.0010	0.0020	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Chloroform	0.00061	U	0.00049	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Chloromethane	0.00061	U	0.00035	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
cis-1,2-Dichloroethene	0.00061	U	0.00057	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
cis-1,3-Dichloropropene	0.00061	U	0.00016	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Dichlorodifluoromethane [Freon-12]	0.00061	U	0.00039	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Ethylbenzene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Methylene chloride	0.0011	JB Q	0.0011	0.0020	0.0051	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Styrene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Tetrachloroethene	0.00061	U	0.00033	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Toluene	0.00061	U	0.00027	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
trans-1,2-Dichloroethene	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
trans-1,3-Dichloropropene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Trichloroethene	0.00061	U	0.00039	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Trichlorofluoromethane [Freon-11]	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Vinyl acetate	0.00061	UY	0.00048	0.00061	0.0051	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Vinyl chloride	0.00061	U	0.00032	0.00061	0.00082	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Xylene (Total)	0.0018	U	0.00047	0.0018	0.0031	mg/Kg-dry	0.91	6/17/2016 12:12 PM
Surr: 4-Bromofluorobenzene	81.2			79-119		%Rec	0.91	6/17/2016 12:12 PM
Surr: Dibromofluoromethane	97.2			78-119		%Rec	0.91	6/17/2016 12:12 PM
Surr: Toluene-d8	86.9			85-116		%Rec	0.91	6/17/2016 12:12 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 8:35:00 AM
Project:	Camp Hero		
Lab ID:	1606525-002	**Matrix:**	Soil
Client Sample ID:	WDS-SB12-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 8:20:00 AM
Project: Camp Hero
Lab ID: 1606525-003 **Matrix:** Soil
Client Sample ID: WDS-SB13-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00067	U	0.00032	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
1,1,1-Trichloroethane	0.00067	U	0.00023	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
1,1,2,2-Tetrachloroethane	0.00067	U	0.00059	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
1,1,2-Trichloroethane	0.00067	U	0.00043	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
1,1-Dichloroethane	0.00067	U	0.00017	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
1,1-Dichloroethene	0.00067	U	0.00023	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
1,2,3-Trichloropropane	0.00067	U	0.00039	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
1,2-Dibromo-3-chloropropane	0.0022	U	0.0016	0.0022	0.0056	mg/Kg-dry	0.99	6/17/2016 12:38 PM
1,2-Dibromoethane	0.00067	U	0.00050	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
1,2-Dichloroethane	0.00067	U	0.00015	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
1,2-Dichloropropane	0.00067	U	0.00031	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
2-Butanone [MEK]	0.011	U	0.0066	0.011	0.022	mg/Kg-dry	0.99	6/17/2016 12:38 PM
2-Hexanone	0.0022	U	0.00070	0.0022	0.0056	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Acetone	0.087	BQ Y	0.0010	0.0022	0.011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Benzene	0.00067	U	0.00030	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Bromodichloromethane	0.00067	U	0.00022	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Bromoform	0.00067	UY Q	0.00036	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Carbon disulfide	0.00067	U	0.00021	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Carbon tetrachloride	0.00067	U	0.00024	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Chlorobenzene	0.00067	U	0.00021	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Chlorodibromomethane	0.00067	UQ	0.00039	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Chloroethane	0.0011	U	0.00084	0.0011	0.0022	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Chloroform	0.00067	U	0.00053	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Chloromethane	0.00067	U	0.00038	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
cis-1,2-Dichloroethene	0.00067	U	0.00062	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
cis-1,3-Dichloropropene	0.00067	U	0.00018	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Dichlorodifluoromethane [Freon-12]	0.00067	U	0.00043	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Ethylbenzene	0.00067	U	0.00025	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Methylene chloride	0.0037	JB Q	0.0012	0.0022	0.0056	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Styrene	0.00067	U	0.00025	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Tetrachloroethene	0.00067	U	0.00036	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Toluene	0.00067	U	0.00030	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
trans-1,2-Dichloroethene	0.00067	U	0.00021	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
trans-1,3-Dichloropropene	0.00067	U	0.00025	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Trichloroethene	0.00067	U	0.00042	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Trichlorofluoromethane [Freon-11]	0.00067	U	0.00025	0.00067	0.0011	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Vinyl acetate	0.00067	UY	0.00053	0.00067	0.0056	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Vinyl chloride	0.00067	U	0.00034	0.00067	0.00089	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Xylene (Total)	0.0020	U	0.00051	0.0020	0.0033	mg/Kg-dry	0.99	6/17/2016 12:38 PM
Surr: 4-Bromofluorobenzene	81.6			79-119		%Rec	0.99	6/17/2016 12:38 PM
Surr: Dibromofluoromethane	97.7			78-119		%Rec	0.99	6/17/2016 12:38 PM
Surr: Toluene-d8	88.7			85-116		%Rec	0.99	6/17/2016 12:38 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 8:20:00 AM
Project:	Camp Hero		
Lab ID:	1606525-003	**Matrix:**	Soil
Client Sample ID:	WDS-SB13-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 9:50:00 AM
Project: Camp Hero
Lab ID: 1606525-004 **Matrix:** Soil
Client Sample ID: H5-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.28	U	0.14	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
1,1,1-Trichloroethane	0.28	U	0.12	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
1,1,2,2-Tetrachloroethane	0.28	U	0.25	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
1,1,2-Trichloroethane	0.28	U	0.10	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
1,1-Dichloroethane	0.28	U	0.10	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
1,1-Dichloroethene	0.28	U	0.13	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
1,2,3-Trichloropropane	0.28	U	0.27	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
1,2-Dibromo-3-chloropropane	0.95	U	0.56	0.95	2.4	mg/Kg-dry	188.2	6/20/2016 3:25 PM
1,2-Dibromoethane	0.28	U	0.17	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
1,2-Dichloroethane	0.28	U	0.13	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
1,2-Dichloropropane	0.28	U	0.16	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
2-Butanone [MEK]	2.4	U	1.6	2.4	4.7	mg/Kg-dry	188.2	6/20/2016 3:25 PM
2-Hexanone	0.47	U	0.30	0.47	0.95	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Acetone	2.4		0.39	0.95	2.4	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Benzene	0.28	U	0.096	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Bromodichloromethane	0.28	U	0.12	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Bromoform	0.28	UQ	0.16	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Carbon disulfide	0.28	U	0.17	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Carbon tetrachloride	0.28	UY	0.13	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Chlorobenzene	0.28	U	0.13	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Chlorodibromomethane	0.28	U	0.23	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Chloroethane	0.95	UYZ	0.69	0.95	2.4	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Chloroform	0.28	U	0.13	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Chloromethane	0.28	U	0.19	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
cis-1,2-Dichloroethene	0.28	U	0.27	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
cis-1,3-Dichloropropene	0.28	U	0.074	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Dichlorodifluoromethane [Freon-12]	0.95	U	0.42	0.95	2.4	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Ethylbenzene	0.28	U	0.11	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Methylene chloride	0.47	U	0.36	0.47	0.95	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Styrene	0.28	U	0.11	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Tetrachloroethene	0.28	U	0.24	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Toluene	0.28	U	0.13	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
trans-1,2-Dichloroethene	0.28	U	0.096	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
trans-1,3-Dichloropropene	0.28	U	0.13	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Trichloroethene	0.28	U	0.069	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Trichlorofluoromethane [Freon-11]	0.28	U	0.26	0.28	0.47	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Vinyl acetate	0.28	U	0.27	0.28	12	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Vinyl chloride	0.28	U	0.26	0.28	0.38	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Xylene (Total)	0.85	U	0.44	0.85	1.4	mg/Kg-dry	188.2	6/20/2016 3:25 PM
Surr: 4-Bromofluorobenzene	95.6			79-119		%Rec	188.2	6/20/2016 3:25 PM
Surr: Dibromofluoromethane	94.6			78-119		%Rec	188.2	6/20/2016 3:25 PM
Surr: Toluene-d8	88.9			85-116		%Rec	188.2	6/20/2016 3:25 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:50:00 AM
Project:	Camp Hero		
Lab ID:	1606525-004	**Matrix:**	Soil
Client Sample ID:	H5-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	60		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:55:00 AM
Project:	Camp Hero		
Lab ID:	1606525-005	**Matrix:**	Soil
Client Sample ID:	H5-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.063	U	0.030	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
1,1,1-Trichloroethane	0.063	U	0.026	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
1,1,2,2-Tetrachloroethane	0.063	U	0.056	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
1,1,2-Trichloroethane	0.063	U	0.023	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
1,1-Dichloroethane	0.063	U	0.022	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
1,1-Dichloroethene	0.063	U	0.030	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
1,2,3-Trichloropropane	0.063	U	0.060	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
1,2-Dibromo-3-chloropropane	0.21	U	0.12	0.21	0.53	mg/Kg-dry	95.4	6/20/2016 3:50 PM
1,2-Dibromoethane	0.063	U	0.037	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
1,2-Dichloroethane	0.063	U	0.028	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
1,2-Dichloropropane	0.063	U	0.035	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
2-Butanone [MEK]	0.53	U	0.35	0.53	1.1	mg/Kg-dry	95.4	6/20/2016 3:50 PM
2-Hexanone	0.11	U	0.066	0.11	0.21	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Acetone	0.21	U	0.087	0.21	0.53	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Benzene	0.063	U	0.021	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Bromodichloromethane	0.063	U	0.027	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Bromoform	0.063	UQ	0.035	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Carbon disulfide	0.063	U	0.038	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Carbon tetrachloride	0.063	UY	0.028	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Chlorobenzene	0.063	U	0.028	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Chlorodibromomethane	0.063	U	0.052	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Chloroethane	0.21	UYZ	0.15	0.21	0.53	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Chloroform	0.063	U	0.028	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Chloromethane	0.063	U	0.042	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
cis-1,2-Dichloroethene	0.063	U	0.061	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
cis-1,3-Dichloropropene	0.063	U	0.016	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Dichlorodifluoromethane [Freon-12]	0.21	U	0.092	0.21	0.53	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Ethylbenzene	0.063	U	0.023	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Methylene chloride	0.11	U	0.080	0.11	0.21	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Styrene	0.063	U	0.024	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Tetrachloroethene	0.063	U	0.054	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Toluene	0.063	U	0.028	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
trans-1,2-Dichloroethene	0.063	U	0.021	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
trans-1,3-Dichloropropene	0.063	U	0.028	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Trichloroethene	0.063	U	0.015	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Trichlorofluoromethane [Freon-11]	0.063	U	0.058	0.063	0.11	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Vinyl acetate	0.063	U	0.061	0.063	2.6	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Vinyl chloride	0.063	U	0.057	0.063	0.084	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Xylene (Total)	0.19	U	0.097	0.19	0.32	mg/Kg-dry	95.4	6/20/2016 3:50 PM
Surr: 4-Bromofluorobenzene	94.5			79-119		%Rec	95.4	6/20/2016 3:50 PM
Surr: Dibromofluoromethane	90.4			78-119		%Rec	95.4	6/20/2016 3:50 PM
Surr: Toluene-d8	89.3			85-116		%Rec	95.4	6/20/2016 3:50 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:55:00 AM
Project:	Camp Hero		
Lab ID:	1606525-005	**Matrix:**	Soil
Client Sample ID:	H5-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	9.2		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606525-006	**Matrix:**	Soil
Client Sample ID:	H5-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.28	U	0.13	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
1,1,1-Trichloroethane	0.28	U	0.12	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
1,1,2,2-Tetrachloroethane	0.28	U	0.25	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
1,1,2-Trichloroethane	0.28	U	0.10	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
1,1-Dichloroethane	0.28	U	0.099	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
1,1-Dichloroethene	0.28	U	0.13	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
1,2,3-Trichloropropane	0.28	U	0.26	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
1,2-Dibromo-3-chloropropane	0.92	U	0.55	0.92	2.3	mg/Kg-dry	188.7	6/20/2016 4:15 PM
1,2-Dibromoethane	0.28	U	0.16	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
1,2-Dichloroethane	0.28	U	0.12	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
1,2-Dichloropropane	0.28	U	0.15	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
2-Butanone [MEK]	2.3	U	1.5	2.3	4.6	mg/Kg-dry	188.7	6/20/2016 4:15 PM
2-Hexanone	0.46	U	0.29	0.46	0.92	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Acetone	0.83	J	0.38	0.92	2.3	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Benzene	0.28	U	0.094	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Bromodichloromethane	0.28	U	0.12	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Bromoform	0.28	UQ	0.15	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Carbon disulfide	0.28	U	0.17	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Carbon tetrachloride	0.28	UY	0.12	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Chlorobenzene	0.28	U	0.12	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Chlorodibromomethane	0.28	U	0.23	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Chloroethane	0.92	UYZ	0.68	0.92	2.3	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Chloroform	0.28	U	0.13	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Chloromethane	0.28	U	0.19	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
cis-1,2-Dichloroethene	0.28	U	0.27	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
cis-1,3-Dichloropropene	0.28	U	0.073	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Dichlorodifluoromethane [Freon-12]	0.92	U	0.41	0.92	2.3	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Ethylbenzene	0.28	U	0.10	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Methylene chloride	0.46	U	0.35	0.46	0.92	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Styrene	0.28	U	0.11	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Tetrachloroethene	0.28	U	0.24	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Toluene	0.28	U	0.12	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
trans-1,2-Dichloroethene	0.28	U	0.094	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
trans-1,3-Dichloropropene	0.28	U	0.12	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Trichloroethene	0.28	U	0.068	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Trichlorofluoromethane [Freon-11]	0.28	U	0.26	0.28	0.46	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Vinyl acetate	0.28	U	0.27	0.28	12	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Vinyl chloride	0.28	U	0.25	0.28	0.37	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Xylene (Total)	0.83	U	0.43	0.83	1.4	mg/Kg-dry	188.7	6/20/2016 4:15 PM
Surr: 4-Bromofluorobenzene	95.3			79-119		%Rec	188.7	6/20/2016 4:15 PM
Surr: Dibromofluoromethane	94.6			78-119		%Rec	188.7	6/20/2016 4:15 PM
Surr: Toluene-d8	89.4			85-116		%Rec	188.7	6/20/2016 4:15 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606525-006	**Matrix:**	Soil
Client Sample ID:	H5-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	59		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606525-007	**Matrix:**	Soil
Client Sample ID:	H5-SS02-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.33	U	0.16	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
1,1,1-Trichloroethane	0.33	U	0.14	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
1,1,2,2-Tetrachloroethane	0.33	U	0.29	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
1,1,2-Trichloroethane	0.33	U	0.12	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
1,1-Dichloroethane	0.33	U	0.12	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
1,1-Dichloroethene	0.33	U	0.16	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
1,2,3-Trichloropropane	0.33	U	0.31	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
1,2-Dibromo-3-chloropropane	1.1	U	0.65	1.1	2.7	mg/Kg-dry	221.6	6/20/2016 4:40 PM
1,2-Dibromoethane	0.33	U	0.19	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
1,2-Dichloroethane	0.33	U	0.14	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
1,2-Dichloropropane	0.33	U	0.18	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
2-Butanone [MEK]	2.7	U	1.8	2.7	5.5	mg/Kg-dry	221.6	6/20/2016 4:40 PM
2-Hexanone	0.55	U	0.34	0.55	1.1	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Acetone	0.78	J	0.45	1.1	2.7	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Benzene	0.33	U	0.11	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Bromodichloromethane	0.33	U	0.14	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Bromoform	0.33	UQ	0.18	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Carbon disulfide	0.33	U	0.20	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Carbon tetrachloride	0.33	UY	0.15	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Chlorobenzene	0.33	U	0.14	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Chlorodibromomethane	0.33	U	0.27	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Chloroethane	1.1	UYZ	0.80	1.1	2.7	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Chloroform	0.33	U	0.15	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Chloromethane	0.33	U	0.22	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
cis-1,2-Dichloroethene	0.33	U	0.32	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
cis-1,3-Dichloropropene	0.33	U	0.086	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Dichlorodifluoromethane [Freon-12]	1.1	U	0.48	1.1	2.7	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Ethylbenzene	0.33	U	0.12	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Methylene chloride	0.55	U	0.42	0.55	1.1	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Styrene	0.33	U	0.13	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Tetrachloroethene	0.33	U	0.28	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Toluene	0.33	U	0.15	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
trans-1,2-Dichloroethene	0.33	U	0.11	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
trans-1,3-Dichloropropene	0.33	U	0.15	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Trichloroethene	0.33	U	0.080	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Trichlorofluoromethane [Freon-11]	0.33	U	0.31	0.33	0.55	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Vinyl acetate	0.33	U	0.32	0.33	14	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Vinyl chloride	0.33	U	0.30	0.33	0.44	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Xylene (Total)	0.99	U	0.51	0.99	1.6	mg/Kg-dry	221.6	6/20/2016 4:40 PM
Surr: 4-Bromofluorobenzene	94.5			79-119		%Rec	221.6	6/20/2016 4:40 PM
Surr: Dibromofluoromethane	91.2			78-119		%Rec	221.6	6/20/2016 4:40 PM
Surr: Toluene-d8	87.8			85-116		%Rec	221.6	6/20/2016 4:40 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606525-007	**Matrix:**	Soil
Client Sample ID:	H5-SS02-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	60		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:20:00 AM
Project:	Camp Hero		
Lab ID:	1606525-008	**Matrix:**	Soil
Client Sample ID:	H5-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.17	U	0.082	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
1,1,1-Trichloroethane	0.17	U	0.071	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
1,1,2,2-Tetrachloroethane	0.17	U	0.15	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
1,1,2-Trichloroethane	0.17	U	0.062	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
1,1-Dichloroethane	0.17	U	0.061	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
1,1-Dichloroethene	0.17	U	0.081	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
1,2,3-Trichloropropane	0.17	U	0.16	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
1,2-Dibromo-3-chloropropane	0.57	U	0.34	0.57	1.4	mg/Kg-dry	175.7	6/20/2016 5:05 PM
1,2-Dibromoethane	0.17	U	0.10	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
1,2-Dichloroethane	0.17	U	0.075	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
1,2-Dichloropropane	0.17	U	0.095	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
2-Butanone [MEK]	1.4	U	0.95	1.4	2.9	mg/Kg-dry	175.7	6/20/2016 5:05 PM
2-Hexanone	0.29	U	0.18	0.29	0.57	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Acetone	0.57	U	0.24	0.57	1.4	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Benzene	0.17	U	0.058	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Bromodichloromethane	0.17	U	0.074	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Bromoform	0.17	UQ	0.094	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Carbon disulfide	0.17	U	0.10	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Carbon tetrachloride	0.17	UY	0.077	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Chlorobenzene	0.17	U	0.075	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Chlorodibromomethane	0.17	U	0.14	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Chloroethane	0.57	UYZ	0.42	0.57	1.4	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Chloroform	0.17	U	0.077	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Chloromethane	0.17	U	0.12	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
cis-1,2-Dichloroethene	0.17	U	0.16	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
cis-1,3-Dichloropropene	0.17	U	0.045	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Dichlorodifluoromethane [Freon-12]	0.57	U	0.25	0.57	1.4	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Ethylbenzene	0.17	U	0.064	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Methylene chloride	0.29	U	0.22	0.29	0.57	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Styrene	0.17	U	0.066	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Tetrachloroethene	0.17	U	0.15	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Toluene	0.17	U	0.077	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
trans-1,2-Dichloroethene	0.17	U	0.058	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
trans-1,3-Dichloropropene	0.17	U	0.077	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Trichloroethene	0.17	U	0.042	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Trichlorofluoromethane [Freon-11]	0.17	U	0.16	0.17	0.29	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Vinyl acetate	0.17	U	0.17	0.17	7.1	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Vinyl chloride	0.17	U	0.16	0.17	0.23	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Xylene (Total)	0.51	U	0.27	0.51	0.86	mg/Kg-dry	175.7	6/20/2016 5:05 PM
Surr: 4-Bromofluorobenzene	95.3			79-119		%Rec	175.7	6/20/2016 5:05 PM
Surr: Dibromofluoromethane	92.4			78-119		%Rec	175.7	6/20/2016 5:05 PM
Surr: Toluene-d8	88.6			85-116		%Rec	175.7	6/20/2016 5:05 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:20:00 AM
Project:	Camp Hero		
Lab ID:	1606525-008	**Matrix:**	Soil
Client Sample ID:	H5-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	38		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 1:20:00 PM
Project:	Camp Hero		
Lab ID:	1606525-009	**Matrix:**	Soil
Client Sample ID:	WDS-SB08-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.065	U	0.031	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
1,1,1-Trichloroethane	0.065	U	0.027	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
1,1,2,2-Tetrachloroethane	0.065	U	0.057	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
1,1,2-Trichloroethane	0.065	U	0.023	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
1,1-Dichloroethane	0.065	U	0.023	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
1,1-Dichloroethene	0.065	U	0.030	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
1,2,3-Trichloropropane	0.065	U	0.061	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
1,2-Dibromo-3-chloropropane	0.22	U	0.13	0.22	0.54	mg/Kg-dry	96.4	6/20/2016 5:30 PM
1,2-Dibromoethane	0.065	U	0.038	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
1,2-Dichloroethane	0.065	U	0.028	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
1,2-Dichloropropane	0.065	U	0.036	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
2-Butanone [MEK]	0.54	U	0.36	0.54	1.1	mg/Kg-dry	96.4	6/20/2016 5:30 PM
2-Hexanone	0.11	U	0.067	0.11	0.22	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Acetone	0.22	U	0.089	0.22	0.54	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Benzene	0.065	U	0.022	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Bromodichloromethane	0.065	U	0.028	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Bromoform	0.065	UQ	0.036	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Carbon disulfide	0.065	U	0.039	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Carbon tetrachloride	0.065	UY	0.029	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Chlorobenzene	0.065	U	0.028	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Chlorodibromomethane	0.065	U	0.053	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Chloroethane	0.22	UYZ	0.16	0.22	0.54	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Chloroform	0.065	U	0.029	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Chloromethane	0.065	U	0.043	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
cis-1,2-Dichloroethene	0.065	U	0.062	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
cis-1,3-Dichloropropene	0.065	U	0.017	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Dichlorodifluoromethane [Freon-12]	0.22	U	0.094	0.22	0.54	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Ethylbenzene	0.065	U	0.024	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Methylene chloride	0.11	U	0.082	0.11	0.22	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Styrene	0.065	U	0.025	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Tetrachloroethene	0.065	U	0.055	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Toluene	0.065	U	0.029	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
trans-1,2-Dichloroethene	0.065	U	0.022	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
trans-1,3-Dichloropropene	0.065	U	0.029	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Trichloroethene	0.065	U	0.016	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Trichlorofluoromethane [Freon-11]	0.065	U	0.060	0.065	0.11	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Vinyl acetate	0.065	U	0.062	0.065	2.7	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Vinyl chloride	0.065	U	0.059	0.065	0.086	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Xylene (Total)	0.19	U	0.10	0.19	0.32	mg/Kg-dry	96.4	6/20/2016 5:30 PM
Surr: 4-Bromofluorobenzene	95.8			79-119		%Rec	96.4	6/20/2016 5:30 PM
Surr: Dibromofluoromethane	93.8			78-119		%Rec	96.4	6/20/2016 5:30 PM
Surr: Toluene-d8	89.5			85-116		%Rec	96.4	6/20/2016 5:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 1:20:00 PM
Project:	Camp Hero		
Lab ID:	1606525-009	**Matrix:**	Soil
Client Sample ID:	WDS-SB08-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 1:05:00 PM
Project: Camp Hero
Lab ID: 1606525-010 **Matrix:** Soil
Client Sample ID: WDS-SB09-06

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00060	U	0.00029	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
1,1,1-Trichloroethane	0.00060	U	0.00021	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
1,1,2,2-Tetrachloroethane	0.00060	U	0.00053	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
1,1,2-Trichloroethane	0.00060	U	0.00039	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
1,1-Dichloroethane	0.00060	U	0.00015	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
1,1-Dichloroethene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
1,2,3-Trichloropropane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
1,2-Dibromo-3-chloropropane	0.0020	U	0.0014	0.0020	0.0050	mg/Kg-dry	0.89	6/17/2016 3:43 PM
1,2-Dibromoethane	0.00060	U	0.00045	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
1,2-Dichloroethane	0.00060	U	0.00013	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
1,2-Dichloropropane	0.00060	U	0.00028	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
2-Butanone [MEK]	0.010	U	0.0059	0.010	0.020	mg/Kg-dry	0.89	6/17/2016 3:43 PM
2-Hexanone	0.0020	U	0.00063	0.0020	0.0050	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Acetone	0.024	BQ Y	0.00091	0.0020	0.010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Bromodichloromethane	0.00060	U	0.00020	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Bromoform	0.00060	UY Q	0.00033	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Carbon disulfide	0.00060	U	0.00019	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Carbon tetrachloride	0.00060	U	0.00021	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Chlorobenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Chlorodibromomethane	0.00060	UQ	0.00035	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Chloroethane	0.0010	U	0.00076	0.0010	0.0020	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Chloroform	0.00060	U	0.00047	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Chloromethane	0.00060	U	0.00034	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
cis-1,2-Dichloroethene	0.00060	U	0.00056	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
cis-1,3-Dichloropropene	0.00060	U	0.00016	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Dichlorodifluoromethane [Freon-12]	0.00060	U	0.00038	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Methylene chloride	0.0020	UB Q	0.0011	0.0020	0.0050	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Styrene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Tetrachloroethene	0.00060	U	0.00032	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Toluene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
trans-1,2-Dichloroethene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
trans-1,3-Dichloropropene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Trichloroethene	0.00060	U	0.00038	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Trichlorofluoromethane [Freon-11]	0.00060	U	0.00022	0.00060	0.0010	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Vinyl acetate	0.00060	UY	0.00047	0.00060	0.0050	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Vinyl chloride	0.00060	U	0.00031	0.00060	0.00080	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Xylene (Total)	0.0018	U	0.00045	0.0018	0.0030	mg/Kg-dry	0.89	6/17/2016 3:43 PM
Surr: 4-Bromofluorobenzene	87.3			79-119		%Rec	0.89	6/17/2016 3:43 PM
Surr: Dibromofluoromethane	99.0			78-119		%Rec	0.89	6/17/2016 3:43 PM
Surr: Toluene-d8	90.1			85-116		%Rec	0.89	6/17/2016 3:43 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 1:05:00 PM
Project:	Camp Hero		
Lab ID:	1606525-010	**Matrix:**	Soil
Client Sample ID:	WDS-SB09-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 10:40:00 AM
Project: Camp Hero
Lab ID: 1606525-011 **Matrix:** Soil
Client Sample ID: WDS-SB11-08

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00051	U	0.00024	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
1,1,1-Trichloroethane	0.00051	U	0.00018	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
1,1,2,2-Tetrachloroethane	0.00051	U	0.00045	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
1,1,2-Trichloroethane	0.00051	U	0.00033	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
1,1-Dichloroethane	0.00051	U	0.00013	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
1,1-Dichloroethene	0.00051	U	0.00017	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
1,2,3-Trichloropropane	0.00051	U	0.00030	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
1,2-Dibromo-3-chloropropane	0.0017	U	0.0012	0.0017	0.0042	mg/Kg-dry	0.77	6/17/2016 4:09 PM
1,2-Dibromoethane	0.00051	U	0.00038	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
1,2-Dichloroethane	0.00051	U	0.00011	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
1,2-Dichloropropane	0.00051	U	0.00023	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
2-Butanone [MEK]	0.0085	U	0.0050	0.0085	0.017	mg/Kg-dry	0.77	6/17/2016 4:09 PM
2-Hexanone	0.0017	U	0.00053	0.0017	0.0042	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Acetone	0.029	BYQ	0.00077	0.0017	0.0085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Benzene	0.00051	U	0.00023	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Bromodichloromethane	0.00051	U	0.00017	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Bromoform	0.00051	UYQ	0.00028	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Carbon disulfide	0.00051	U	0.00016	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Carbon tetrachloride	0.00051	U	0.00018	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Chlorobenzene	0.00051	U	0.00016	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Chlorodibromomethane	0.00051	UQ	0.00029	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Chloroethane	0.00085	U	0.00064	0.00085	0.0017	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Chloroform	0.00051	U	0.00040	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Chloromethane	0.00051	U	0.00029	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
cis-1,2-Dichloroethene	0.00051	U	0.00047	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
cis-1,3-Dichloropropene	0.00051	U	0.00014	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Dichlorodifluoromethane [Freon-12]	0.00051	U	0.00032	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Ethylbenzene	0.00051	U	0.00019	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Methylene chloride	0.0017	UBQ	0.00090	0.0017	0.0042	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Styrene	0.00051	U	0.00019	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Tetrachloroethene	0.00051	U	0.00027	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Toluene	0.00051	U	0.00023	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
trans-1,2-Dichloroethene	0.00051	U	0.00016	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
trans-1,3-Dichloropropene	0.00051	U	0.00019	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Trichloroethene	0.00051	U	0.00032	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Trichlorofluoromethane [Freon-11]	0.00051	U	0.00019	0.00051	0.00085	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Vinyl acetate	0.00051	UY	0.00040	0.00051	0.0042	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Vinyl chloride	0.00051	U	0.00026	0.00051	0.00068	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Xylene (Total)	0.0015	U	0.00039	0.0015	0.0025	mg/Kg-dry	0.77	6/17/2016 4:09 PM
Surr: 4-Bromofluorobenzene	87.2			79-119		%Rec	0.77	6/17/2016 4:09 PM
Surr: Dibromofluoromethane	98.0			78-119		%Rec	0.77	6/17/2016 4:09 PM
Surr: Toluene-d8	89.6			85-116		%Rec	0.77	6/17/2016 4:09 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:40:00 AM
Project:	Camp Hero		
Lab ID:	1606525-011	**Matrix:**	Soil
Client Sample ID:	WDS-SB11-08		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	9.0		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:25:00 AM
Project:	Camp Hero		
Lab ID:	1606525-012	**Matrix:**	Soil
Client Sample ID:	MP-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00053	U	0.00023	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
1,3,5-Trimethylbenzene	0.00053	U	0.00018	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
Benzene	0.00053	U	0.00024	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
Ethylbenzene	0.00053	U	0.00020	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
Isopropylbenzene	0.00053	U	0.00017	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
Methyl tert-butyl ether [MTBE]	0.00053	U	0.00016	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
n-Butylbenzene	0.00053	U	0.00024	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
n-Propylbenzene	0.00053	U	0.00015	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
Naphthalene	0.00053	U	0.00045	0.00053	0.0044	mg/Kg-dry	0.8	6/17/2016 4:35 PM
p-Isopropyltoluene [p-Cymene]	0.00053	U	0.00023	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
sec-Butylbenzene	0.00088	U	0.00060	0.00088	0.0018	mg/Kg-dry	0.8	6/17/2016 4:35 PM
tert-Butylbenzene	0.00053	U	0.00048	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
Toluene	0.00053	U	0.00024	0.00053	0.00088	mg/Kg-dry	0.8	6/17/2016 4:35 PM
Xylene (Total)	0.0016	U	0.00040	0.0016	0.0027	mg/Kg-dry	0.8	6/17/2016 4:35 PM
Surr: 4-Bromofluorobenzene	83.7			79-119		%Rec	0.8	6/17/2016 4:35 PM
Surr: Dibromofluoromethane	98.2			78-119		%Rec	0.8	6/17/2016 4:35 PM
Surr: Toluene-d8	88.9			85-116		%Rec	0.8	6/17/2016 4:35 PM
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	9.4		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 9:25:00 AM
Project:	Camp Hero		
Lab ID:	1606525-013	**Matrix:**	Soil
Client Sample ID:	MP-SS02-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00058	U	0.00025	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
1,3,5-Trimethylbenzene	0.00058	U	0.00019	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
Benzene	0.00058	U	0.00026	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
Ethylbenzene	0.00058	U	0.00021	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
Isopropylbenzene	0.00058	U	0.00018	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
Methyl tert-butyl ether [MTBE]	0.00058	U	0.00017	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
n-Butylbenzene	0.00058	U	0.00026	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
n-Propylbenzene	0.00058	U	0.00017	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
Naphthalene	0.00058	U	0.00049	0.00058	0.0048	mg/Kg-dry	0.88	6/21/2016 10:53 AM
p-Isopropyltoluene [p-Cymene]	0.00058	U	0.00025	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
sec-Butylbenzene	0.00096	U	0.00065	0.00096	0.0019	mg/Kg-dry	0.88	6/21/2016 10:53 AM
tert-Butylbenzene	0.00058	U	0.00053	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
Toluene	0.00058	U	0.00026	0.00058	0.00096	mg/Kg-dry	0.88	6/21/2016 10:53 AM
Xylene (Total)	0.0017	U	0.00044	0.0017	0.0029	mg/Kg-dry	0.88	6/21/2016 10:53 AM
Surr: 4-Bromofluorobenzene	95.9			79-119		%Rec	0.88	6/21/2016 10:53 AM
Surr: Dibromofluoromethane	99.6			78-119		%Rec	0.88	6/21/2016 10:53 AM
Surr: Toluene-d8	89.3			85-116		%Rec	0.88	6/21/2016 10:53 AM
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	8.2		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 11:30:00 AM
Project:	Camp Hero		
Lab ID:	1606525-014	**Matrix:**	Soil
Client Sample ID:	MP-SB02-11		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00062	U	0.00027	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
1,3,5-Trimethylbenzene	0.00062	U	0.00021	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
Benzene	0.00062	U	0.00028	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
Ethylbenzene	0.00062	U	0.00023	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
Isopropylbenzene	0.00062	U	0.00020	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
Methyl tert-butyl ether [MTBE]	0.00062	U	0.00019	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
n-Butylbenzene	0.00062	U	0.00028	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
n-Propylbenzene	0.00062	U	0.00018	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
Naphthalene	0.00062	UQ	0.00053	0.00062	0.0052	mg/Kg-dry	0.95	6/19/2016 3:47 AM
p-Isopropyltoluene [p-Cymene]	0.00062	U	0.00027	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
sec-Butylbenzene	0.0010	U	0.00071	0.0010	0.0021	mg/Kg-dry	0.95	6/19/2016 3:47 AM
tert-Butylbenzene	0.00062	U	0.00057	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
Toluene	0.00062	UB	0.00028	0.00062	0.0010	mg/Kg-dry	0.95	6/19/2016 3:47 AM
Xylene (Total)	0.0019	U	0.00047	0.0019	0.0031	mg/Kg-dry	0.95	6/19/2016 3:47 AM
Surr: 4-Bromofluorobenzene	89.3			79-119		%Rec	0.95	6/19/2016 3:47 AM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.95	6/19/2016 3:47 AM
Surr: Toluene-d8	94.1			85-116		%Rec	0.95	6/19/2016 3:47 AM
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	8.8		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 11:15:00 AM
Project:	Camp Hero		
Lab ID:	1606525-015	**Matrix:**	Soil
Client Sample ID:	MP-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00095	U	0.00041	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
1,3,5-Trimethylbenzene	0.00095	U	0.00032	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
Benzene	0.00095	U	0.00043	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
Ethylbenzene	0.00095	U	0.00035	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
Isopropylbenzene	0.00095	U	0.00030	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
Methyl tert-butyl ether [MTBE]	0.00095	U	0.00028	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
n-Butylbenzene	0.00095	U	0.00042	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
n-Propylbenzene	0.00095	U	0.00028	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
Naphthalene	0.00095	UQ	0.00081	0.00095	0.0079	mg/Kg-dry	1.31	6/19/2016 4:13 AM
p-Isopropyltoluene [p-Cymene]	0.00095	U	0.00042	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
sec-Butylbenzene	0.0016	U	0.0011	0.0016	0.0032	mg/Kg-dry	1.31	6/19/2016 4:13 AM
tert-Butylbenzene	0.00095	U	0.00087	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
Toluene	0.00095	UB	0.00042	0.00095	0.0016	mg/Kg-dry	1.31	6/19/2016 4:13 AM
Xylene (Total)	0.0029	U	0.00072	0.0029	0.0048	mg/Kg-dry	1.31	6/19/2016 4:13 AM
Surr: 4-Bromofluorobenzene	92.5			79-119		%Rec	1.31	6/19/2016 4:13 AM
Surr: Dibromofluoromethane	100			78-119		%Rec	1.31	6/19/2016 4:13 AM
Surr: Toluene-d8	95.6			85-116		%Rec	1.31	6/19/2016 4:13 AM
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/17/2016 1:30 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 11:30:00 AM
Project:	Camp Hero		
Lab ID:	1606525-016	**Matrix:**	Soil
Client Sample ID:	MP-SB03-09		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00053	U	0.00023	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
1,3,5-Trimethylbenzene	0.00053	U	0.00018	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
Benzene	0.00053	U	0.00024	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
Ethylbenzene	0.00053	U	0.00020	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
Isopropylbenzene	0.00053	U	0.00017	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
Methyl tert-butyl ether [MTBE]	0.00053	U	0.00016	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
n-Butylbenzene	0.00053	U	0.00024	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
n-Propylbenzene	0.00053	U	0.00016	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
Naphthalene	0.00053	U	0.00045	0.00053	0.0045	mg/Kg-dry	0.82	6/21/2016 11:19 AM
p-Isopropyltoluene [p-Cymene]	0.00053	U	0.00023	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
sec-Butylbenzene	0.00089	U	0.00060	0.00089	0.0018	mg/Kg-dry	0.82	6/21/2016 11:19 AM
tert-Butylbenzene	0.00053	U	0.00049	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
Toluene	0.00053	U	0.00024	0.00053	0.00089	mg/Kg-dry	0.82	6/21/2016 11:19 AM
Xylene (Total)	0.0016	U	0.00041	0.0016	0.0027	mg/Kg-dry	0.82	6/21/2016 11:19 AM
Surr: 4-Bromofluorobenzene	93.4			79-119		%Rec	0.82	6/21/2016 11:19 AM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.82	6/21/2016 11:19 AM
Surr: Toluene-d8	89.5			85-116		%Rec	0.82	6/21/2016 11:19 AM
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	7.9		1.0	1.0	1.0	wt%	1	6/17/2016 2:15 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:50:00 AM
Project:	Camp Hero		
Lab ID:	1606525-017	**Matrix:**	Soil
Client Sample ID:	H16-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00078	U	0.00038	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
1,1,1-Trichloroethane	0.00078	U	0.00028	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
1,1,2,2-Tetrachloroethane	0.00078	U	0.00069	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
1,1,2-Trichloroethane	0.00078	U	0.00051	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
1,1-Dichloroethane	0.00078	U	0.00020	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
1,1-Dichloroethene	0.00078	U	0.00027	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
1,2,3-Trichloropropane	0.00078	U	0.00046	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
1,2-Dibromo-3-chloropropane	0.0026	UYQ	0.0018	0.0026	0.0065	mg/Kg-dry	1.08	6/19/2016 5:06 AM
1,2-Dibromoethane	0.00078	U	0.00059	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
1,2-Dichloroethane	0.00078	U	0.00018	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
1,2-Dichloropropane	0.00078	U	0.00036	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
2-Butanone [MEK]	0.013	UQ	0.0078	0.013	0.026	mg/Kg-dry	1.08	6/19/2016 5:06 AM
2-Hexanone	0.0026	U	0.00082	0.0026	0.0065	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Acetone	0.24	BYQ	0.0012	0.0026	0.013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Benzene	0.00078	U	0.00035	0.00078	0.0010	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Bromodichloromethane	0.00078	U	0.00026	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Bromoform	0.00078	UYQ	0.00043	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Carbon disulfide	0.0013	J	0.00024	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Carbon tetrachloride	0.00078	U	0.00028	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Chlorobenzene	0.00078	U	0.00025	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Chlorodibromomethane	0.00078	UYQ	0.00045	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Chloroethane	0.0013	U	0.00099	0.0013	0.0026	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Chloroform	0.00078	U	0.00062	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Chloromethane	0.00078	U	0.00045	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
cis-1,2-Dichloroethene	0.00078	U	0.00073	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
cis-1,3-Dichloropropene	0.00078	UQ	0.00021	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Dichlorodifluoromethane [Freon-12]	0.00078	U	0.00050	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Ethylbenzene	0.00078	U	0.00029	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Methylene chloride	0.0026	UBQ	0.0014	0.0026	0.0065	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Styrene	0.00078	U	0.00030	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Tetrachloroethene	0.00078	U	0.00042	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Toluene	0.00078	UB	0.00035	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
trans-1,2-Dichloroethene	0.00078	U	0.00024	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
trans-1,3-Dichloropropene	0.00078	U	0.00030	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Trichloroethene	0.00078	U	0.00050	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Trichlorofluoromethane [Freon-11]	0.00078	U	0.00029	0.00078	0.0013	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Vinyl acetate	0.00078	U	0.00062	0.00078	0.0065	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Vinyl chloride	0.00078	U	0.00040	0.00078	0.0010	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Xylene (Total)	0.0024	U	0.00059	0.0024	0.0039	mg/Kg-dry	1.08	6/19/2016 5:06 AM
Surr: 4-Bromofluorobenzene	91.7			79-119		%Rec	1.08	6/19/2016 5:06 AM
Surr: Dibromofluoromethane	101			78-119		%Rec	1.08	6/19/2016 5:06 AM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:50:00 AM
Project:	Camp Hero		
Lab ID:	1606525-017	**Matrix:**	Soil
Client Sample ID:	H16-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Toluene-d8	95.1			85-116		%Rec	1.08	6/19/2016 5:06 AM
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/17/2016 2:15 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/13/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606525-018 **Matrix:** Soil
Client Sample ID: H16-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00085	U	0.00041	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
1,1,1-Trichloroethane	0.00085	U	0.00030	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
1,1,2,2-Tetrachloroethane	0.00085	U	0.00075	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
1,1,2-Trichloroethane	0.00085	U	0.00055	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
1,1-Dichloroethane	0.00085	U	0.00021	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
1,1-Dichloroethene	0.00085	U	0.00029	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
1,2,3-Trichloropropane	0.00085	U	0.00050	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
1,2-Dibromo-3-chloropropane	0.0028	U	0.0020	0.0028	0.0071	mg/Kg-dry	0.97	6/21/2016 11:45 AM
1,2-Dibromoethane	0.00085	U	0.00064	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
1,2-Dichloroethane	0.00085	U	0.00019	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
1,2-Dichloropropane	0.00085	U	0.00039	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
2-Butanone [MEK]	0.014	UQ	0.0084	0.014	0.028	mg/Kg-dry	0.97	6/21/2016 11:45 AM
2-Hexanone	0.0028	U	0.00089	0.0028	0.0071	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Acetone	0.070	YQ	0.0013	0.0028	0.014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Benzene	0.00085	U	0.00038	0.00085	0.0010	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Bromodichloromethane	0.00085	U	0.00028	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Bromoform	0.00085	UY	0.00046	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Carbon disulfide	0.00085	U	0.00026	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Carbon tetrachloride	0.00085	UY	0.00030	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Chlorobenzene	0.00085	U	0.00027	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Chlorodibromomethane	0.00085	U	0.00049	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Chloroethane	0.0014	U	0.0011	0.0014	0.0028	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Chloroform	0.00085	U	0.00067	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Chloromethane	0.00085	U	0.00049	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
cis-1,2-Dichloroethene	0.00085	U	0.00079	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
cis-1,3-Dichloropropene	0.00085	U	0.00023	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Dichlorodifluoromethane [Freon-12]	0.00085	U	0.00054	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Ethylbenzene	0.00085	U	0.00032	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Methylene chloride	0.0028	U	0.0015	0.0028	0.0071	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Styrene	0.00085	U	0.00032	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Tetrachloroethene	0.00085	U	0.00045	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Toluene	0.00085	U	0.00038	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
trans-1,2-Dichloroethene	0.00085	U	0.00026	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
trans-1,3-Dichloropropene	0.00085	U	0.00032	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Trichloroethene	0.00085	U	0.00054	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Trichlorofluoromethane [Freon-11]	0.00085	U	0.00032	0.00085	0.0014	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Vinyl acetate	0.00085	UY	0.00067	0.00085	0.0071	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Vinyl chloride	0.00085	U	0.00044	0.00085	0.0011	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Xylene (Total)	0.0025	U	0.00064	0.0025	0.0042	mg/Kg-dry	0.97	6/21/2016 11:45 AM
Surr: 4-Bromofluorobenzene	91.3			79-119		%Rec	0.97	6/21/2016 11:45 AM
Surr: Dibromofluoromethane	102			78-119		%Rec	0.97	6/21/2016 11:45 AM
Surr: Toluene-d8	88.3			85-116		%Rec	0.97	6/21/2016 11:45 AM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606525-018	**Matrix:**	Soil
Client Sample ID:	H16-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	31		1.0	1.0	1.0	wt%	1	6/17/2016 2:15 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606525-019	**Matrix:**	Soil
Client Sample ID:	H16-SB01-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00080	U	0.00038	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
1,1,1-Trichloroethane	0.00080	U	0.00028	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
1,1,2,2-Tetrachloroethane	0.00080	U	0.00071	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
1,1,2-Trichloroethane	0.00080	U	0.00052	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
1,1-Dichloroethane	0.00080	U	0.00020	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
1,1-Dichloroethene	0.00080	U	0.00027	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
1,2,3-Trichloropropane	0.00080	U	0.00047	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
1,2-Dibromo-3-chloropropane	0.0027	U	0.0019	0.0027	0.0067	mg/Kg-dry	0.97	6/21/2016 12:11 PM
1,2-Dibromoethane	0.00080	U	0.00060	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
1,2-Dichloroethane	0.00080	U	0.00018	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
1,2-Dichloropropane	0.00080	U	0.00037	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
2-Butanone [MEK]	0.013	UQ	0.0079	0.013	0.027	mg/Kg-dry	0.97	6/21/2016 12:11 PM
2-Hexanone	0.0027	U	0.00084	0.0027	0.0067	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Acetone	0.021	YQ	0.0012	0.0027	0.013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Benzene	0.00080	U	0.00036	0.00080	0.0010	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Bromodichloromethane	0.00080	U	0.00027	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Bromoform	0.00080	UY	0.00044	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Carbon disulfide	0.00080	U	0.00025	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Carbon tetrachloride	0.00080	UY	0.00028	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Chlorobenzene	0.00080	U	0.00025	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Chlorodibromomethane	0.00080	U	0.00046	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Chloroethane	0.0013	U	0.0010	0.0013	0.0027	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Chloroform	0.00080	U	0.00063	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Chloromethane	0.00080	U	0.00046	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
cis-1,2-Dichloroethene	0.00080	U	0.00075	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
cis-1,3-Dichloropropene	0.00080	U	0.00021	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Dichlorodifluoromethane [Freon-12]	0.00080	U	0.00051	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Ethylbenzene	0.00080	U	0.00030	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Methylene chloride	0.0086		0.0014	0.0027	0.0067	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Styrene	0.00080	U	0.00030	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Tetrachloroethene	0.00080	U	0.00043	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Toluene	0.00080	U	0.00036	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
trans-1,2-Dichloroethene	0.00080	U	0.00025	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
trans-1,3-Dichloropropene	0.00080	U	0.00030	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Trichloroethene	0.00080	U	0.00051	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Trichlorofluoromethane [Freon-11]	0.00080	U	0.00030	0.00080	0.0013	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Vinyl acetate	0.00080	UY	0.00063	0.00080	0.0067	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Vinyl chloride	0.00080	U	0.00041	0.00080	0.0011	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Xylene (Total)	0.0024	U	0.00061	0.0024	0.0040	mg/Kg-dry	0.97	6/21/2016 12:11 PM
Surr: 4-Bromofluorobenzene	89.6			79-119		%Rec	0.97	6/21/2016 12:11 PM
Surr: Dibromofluoromethane	102			78-119		%Rec	0.97	6/21/2016 12:11 PM
Surr: Toluene-d8	90.5			85-116		%Rec	0.97	6/21/2016 12:11 PM

RTI Laboratories - Analytical Report

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/13/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606525-019	**Matrix:**	Soil
Client Sample ID:	H16-SB01-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM D 2216**					**Analyst: NS1**
Percent Moisture	27		1.0	1.0	1.0	wt%	1	6/17/2016 2:15 PM

RTI Laboratories - DATES REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606525-001A	TB-SO-061316-01	6/13/2016 8:00 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/17/2016 8:14 AM	6/17/2016 8:14 AM
1606525-002A	WDS-SB12-05	6/13/2016 8:35 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/17/2016 12:12 PM	6/17/2016 12:12 PM
1606525-002D	WDS-SB12-05	6/13/2016 8:35 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-003A	WDS-SB13-05	6/13/2016 8:20 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/17/2016 12:38 PM	6/17/2016 12:38 PM
1606525-003D	WDS-SB13-05	6/13/2016 8:20 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-004C	H5-SS01-01	6/13/2016 9:50 AM	Soil	SW_8260S-Volatile Organic Compounds		6/20/2016 3:25 PM	6/20/2016 3:25 PM
1606525-004D	H5-SS01-01	6/13/2016 9:50 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-005C	H5-SS01-02	6/13/2016 9:55 AM	Soil	SW_8260S-Volatile Organic Compounds		6/20/2016 3:50 PM	6/20/2016 3:50 PM
1606525-005D	H5-SS01-02	6/13/2016 9:55 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-006C	H5-SS02-01	6/13/2016 9:15 AM	Soil	SW_8260S-Volatile Organic Compounds		6/20/2016 4:15 PM	6/20/2016 4:15 PM
1606525-006D	H5-SS02-01	6/13/2016 9:15 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-007C	H5-SS02-01 DUP	6/13/2016 9:15 AM	Soil	SW_8260S-Volatile Organic Compounds		6/20/2016 4:40 PM	6/20/2016 4:40 PM
1606525-007D	H5-SS02-01 DUP	6/13/2016 9:15 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-008C	H5-SS02-02	6/13/2016 9:20 AM	Soil	SW_8260S-Volatile Organic Compounds		6/20/2016 5:05 PM	6/20/2016 5:05 PM
1606525-008D	H5-SS02-02	6/13/2016 9:20 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-009C	WDS-SB08-05	6/13/2016 1:20 PM	Soil	SW_8260S-Volatile Organic Compounds		6/20/2016 5:30 PM	6/20/2016 5:30 PM

RTI Laboratories - DATES REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606525-009D	WDS-SB08-05	6/13/2016 1:20 PM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-010A	WDS-SB09-06	6/13/2016 1:05 PM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/17/2016 3:43 PM	6/17/2016 3:43 PM
1606525-010D	WDS-SB09-06	6/13/2016 1:05 PM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-011A	WDS-SB11-08	6/13/2016 10:40 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/17/2016 4:09 PM	6/17/2016 4:09 PM
1606525-011D	WDS-SB11-08	6/13/2016 10:40 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-012A	MP-SS02-01	6/13/2016 9:25 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/17/2016 4:35 PM	6/17/2016 4:35 PM
1606525-012D	MP-SS02-01	6/13/2016 9:25 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-013A	MP-SS02-01 DUP	6/13/2016 9:25 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/21/2016 10:53 AM	6/21/2016 10:53 AM
1606525-013D	MP-SS02-01 DUP	6/13/2016 9:25 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-014A	MP-SB02-11	6/13/2016 11:30 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/19/2016 3:47 AM	6/19/2016 3:47 AM
1606525-014D	MP-SB02-11	6/13/2016 11:30 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-015A	MP-SS03-01	6/13/2016 11:15 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/19/2016 4:13 AM	6/19/2016 4:13 AM
1606525-015D	MP-SS03-01	6/13/2016 11:15 AM	Soil	PMOIST-Percent Moisture		6/17/2016 1:30 PM	6/17/2016 1:30 PM
1606525-016A	MP-SB03-09	6/13/2016 11:30 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/21/2016 11:19 AM	6/21/2016 11:19 AM
1606525-016D	MP-SB03-09	6/13/2016 11:30 AM	Soil	PMOIST-Percent Moisture		6/17/2016 2:15 PM	6/17/2016 2:15 PM
1606525-017A	H16-SS01-01	6/13/2016 10:50 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/19/2016 5:06 AM	6/19/2016 5:06 AM

RTI Laboratories - DATES REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606525-017D	H16-SS01-01	6/13/2016 10:50 AM	Soil				
				PMOIST-Percent Moisture		6/17/2016 2:15 PM	6/17/2016 2:15 PM
1606525-018A	H16-SB01-05	6/13/2016 10:55 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/21/2016 11:45 AM	6/21/2016 11:45 AM
1606525-018D	H16-SB01-05	6/13/2016 10:55 AM	Soil				
				PMOIST-Percent Moisture		6/17/2016 2:15 PM	6/17/2016 2:15 PM
1606525-019A	H16-SB01-05 DUP	6/13/2016 10:55 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/21/2016 12:11 PM	6/21/2016 12:11 PM
1606525-019D	H16-SB01-05 DUP	6/13/2016 10:55 AM	Soil				
				PMOIST-Percent Moisture		6/17/2016 2:15 PM	6/17/2016 2:15 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86751

Sample ID:	VOA11B LCS 06171	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86751
Client ID:	LCSS	Batch ID:	R86751	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1682943

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0094	0.0010	0.010	0	94.1	78	125				
1,1,1-Trichloroethane	0.0096	0.0010	0.010	0	96.0	73	130				
1,1,2,2-Tetrachloroethane	0.011	0.0010	0.010	0	108	70	124				
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	105	78	121				
1,1-Dichloroethane	0.010	0.0010	0.010	0	105	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	103	70	131				
1,2,3-Trichloropropane	0.011	0.0010	0.010	0	110	73	125				
1,2-Dibromo-3-chloropropane	0.0097	0.0050	0.010	0	97.4	61	132				
1,2-Dibromoethane	0.011	0.0010	0.010	0	107	78	122				
1,2-Dichloroethane	0.011	0.0010	0.010	0	112	73	128				
1,2-Dichloropropane	0.011	0.0010	0.010	0	105	76	123				
2-Butanone [MEK]	0.014	0.020	0.010	0	139	51	148				J
2-Hexanone	0.011	0.0050	0.010	0	111	53	145				
Acetone	0.029	0.010	0.010	0	290	36	164				QBY
Benzene	0.010	0.0010	0.010	0	101	77	121				
Bromodichloromethane	0.010	0.0010	0.010	0	101	75	127				
Bromoform	0.0066	0.0010	0.010	0	65.5	67	132				QY
Carbon disulfide	0.0092	0.0010	0.010	0	91.6	63	132				
Carbon tetrachloride	0.010	0.0010	0.010	0	100	70	135				
Chlorobenzene	0.0096	0.0010	0.010	0	96.1	79	120				
Chlorodibromomethane	0.0076	0.0010	0.010	0	76.1	74	126				
Chloroethane	0.012	0.0020	0.010	0	122	59	139				
Chloroform	0.010	0.0010	0.010	0	101	78	123				
Chloromethane	0.012	0.0010	0.010	0	118	50	136				
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	108	77	123				
cis-1,3-Dichloropropene	0.0081	0.0010	0.010	0	81.2	74	126				
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	105	29	149				
Ethylbenzene	0.0097	0.0010	0.010	0	97.0	76	122				
Methylene chloride	0.017	0.0050	0.010	0	170	70	128				QB
Styrene	0.0082	0.0010	0.010	0	81.7	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86751

Sample ID:	VOA11B LCS 06171	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86751
Client ID:	LCSS	Batch ID:	R86751	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1682943

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0093	0.0010	0.010	0	93.3	73	128				
Toluene	0.0098	0.0010	0.010	0	98.4	77	121				
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	110	74	125				
trans-1,3-Dichloropropene	0.0083	0.0010	0.010	0	83.0	71	130				
Trichloroethene	0.0095	0.0010	0.010	0	95.1	77	123				
Trichlorofluoromethane [Freon-11]	0.012	0.0010	0.010	0	115	62	140				
Vinyl acetate	0.013	0.0050	0.010	0	126	50	151				Y
Vinyl chloride	0.012	0.00080	0.010	0	116	56	135				
Xylene (Total)	0.029	0.0030	0.030	0	97.3	78	124				
Surr: 4-Bromofluorobenzene	58		60.00		97.0	79	119				
Surr: Dibromofluoromethane	56		60.00		93.6	78	119				
Surr: Toluene-d8	58		60.00		96.2	85	116				

Sample ID:	VOA11B LCSD 0617	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	86751
Client ID:	LCSS02	Batch ID:	R86751	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1682945

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0090	0.0010	0.010	0	90.2	78	125	0.0094	4.23	25	
1,1,1-Trichloroethane	0.0092	0.0010	0.010	0	92.5	73	130	0.0096	3.71	25	
1,1,2,2-Tetrachloroethane	0.0094	0.0010	0.010	0	94.4	70	124	0.011	13.0	25	
1,1,2-Trichloroethane	0.0094	0.0010	0.010	0	94.2	78	121	0.010	10.5	25	
1,1-Dichloroethane	0.010	0.0010	0.010	0	99.7	76	125	0.010	5.18	25	
1,1-Dichloroethene	0.0097	0.0010	0.010	0	97.4	70	131	0.010	5.88	25	
1,2,3-Trichloropropane	0.0097	0.0010	0.010	0	96.7	73	125	0.011	12.6	25	
1,2-Dibromo-3-chloropropane	0.0080	0.0050	0.010	0	79.8	61	132	0.0097	19.9	25	
1,2-Dibromoethane	0.0097	0.0010	0.010	0	96.8	78	122	0.011	10.4	25	
1,2-Dichloroethane	0.010	0.0010	0.010	0	104	73	128	0.011	7.76	25	
1,2-Dichloropropane	0.0096	0.0010	0.010	0	96.0	76	123	0.011	9.15	25	
2-Butanone [MEK]	0.012	0.020	0.010	0	121	51	148	0.014	14.4	25	J
2-Hexanone	0.0087	0.0050	0.010	0	86.9	53	145	0.011	24.3	25	
Acetone	0.025	0.010	0.010	0	255	36	164	0.029	12.8	25	QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86751

Sample ID:	**VOA11B LCSD 0617**	Samp Type:	**LCSD**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86751**
Client ID:	**LCSS02**	Batch ID:	**R86751**	TestNo:	**SW8260B**			Analysis Date:	**6/17/2016**	SeqNo:	**1682945**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0095	0.0010	0.010	0	94.9	77	121	0.010	5.83	25	
Bromodichloromethane	0.0092	0.0010	0.010	0	91.9	75	127	0.010	9.83	25	
Bromoform	0.0058	0.0010	0.010	0	58.3	67	132	0.0066	11.6	25	QY
Carbon disulfide	0.0084	0.0010	0.010	0	83.9	63	132	0.0092	8.77	25	
Carbon tetrachloride	0.0093	0.0010	0.010	0	92.8	70	135	0.010	7.57	25	
Chlorobenzene	0.0090	0.0010	0.010	0	90.4	79	120	0.0096	6.11	25	
Chlorodibromomethane	0.0070	0.0010	0.010	0	70.0	74	126	0.0076	8.35	25	Q
Chloroethane	0.011	0.0020	0.010	0	112	59	139	0.012	8.46	25	
Chloroform	0.0094	0.0010	0.010	0	94.1	78	123	0.010	7.07	25	
Chloromethane	0.011	0.0010	0.010	0	108	50	136	0.012	9.22	25	
cis-1,2-Dichloroethene	0.010	0.0010	0.010	0	101	77	123	0.011	6.40	25	
cis-1,3-Dichloropropene	0.0075	0.0010	0.010	0	75.3	74	126	0.0081	7.54	25	
Dichlorodifluoromethane [Freon-12]	0.0097	0.0010	0.010	0	97.1	29	149	0.010	7.53	25	
Ethylbenzene	0.0091	0.0010	0.010	0	91.2	76	122	0.0097	6.16	25	
Methylene chloride	0.017	0.0050	0.010	0	167	70	128	0.017	1.25	25	Q
Styrene	0.0078	0.0010	0.010	0	77.7	76	124	0.0082	5.02	25	
Tetrachloroethene	0.0083	0.0010	0.010	0	83.0	73	128	0.0093	11.7	25	
Toluene	0.0093	0.0010	0.010	0	92.9	77	121	0.0098	5.75	25	
trans-1,2-Dichloroethene	0.010	0.0010	0.010	0	102	74	125	0.011	7.81	25	
trans-1,3-Dichloropropene	0.0078	0.0010	0.010	0	77.7	71	130	0.0083	6.60	25	
Trichloroethene	0.0089	0.0010	0.010	0	89.2	77	123	0.0095	6.40	25	
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	106	62	140	0.012	8.62	25	
Vinyl acetate	0.011	0.0050	0.010	0	114	50	151	0.013	9.82	25	Y
Vinyl chloride	0.011	0.00080	0.010	0	110	56	135	0.012	5.39	25	
Xylene (Total)	0.027	0.0030	0.030	0	90.3	78	124	0.029	7.39	25	
Surr: 4-Bromofluorobenzene	58		60.00		96.1	79	119		0	25	
Surr: Dibromofluoromethane	56		60.00		92.6	78	119		0	25	
Surr: Toluene-d8	57		60.00		95.4	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86751**

Sample ID:	**VOA11B MBLK 0617**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86751**
Client ID:	**PBS**	Batch ID:	**R86751**	TestNo:	**SW8260B**			Analysis Date:	**6/17/2016**	SeqNo:	**1682948**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.0078	0.010									JTY
Benzene	0.00060	0.0010									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									UY
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0042	0.0050									JT
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86751**

Sample ID:	**VOA11B MBLK 0617**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/17/2016**	RunNo:	**86751**
Client ID:	**PBS**	Batch ID:	**R86751**	TestNo:	**SW8260B**			Analysis Date:	**6/17/2016**	SeqNo:	**1682948**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									UY
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	43		50.00		86.4	79	119				
Surr: Dibromofluoromethane	43		50.00		86.4	78	119				
Surr: Toluene-d8	44		50.00		87.1	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86773

Sample ID:	VOA11B LCS 06181	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	86773
Client ID:	LCSS	Batch ID:	R86773	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683584

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0088	0.0010	0.010	0	87.8	78	125				
1,1,1-Trichloroethane	0.0098	0.0010	0.010	0	98.0	73	130				
1,1,2,2-Tetrachloroethane	0.0084	0.0010	0.010	0	84.0	70	124				
1,1,2-Trichloroethane	0.0086	0.0010	0.010	0	85.7	78	121				
1,1-Dichloroethane	0.010	0.0010	0.010	0	103	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	103	70	131				
1,2,3-Trichloropropane	0.0085	0.0010	0.010	0	84.7	73	125				
1,2-Dibromo-3-chloropropane	0.0059	0.0050	0.010	0	59.0	61	132				QY
1,2-Dibromoethane	0.0086	0.0010	0.010	0	86.2	78	122				
1,2-Dichloroethane	0.0098	0.0010	0.010	0	98.2	73	128				
1,2-Dichloropropane	0.0098	0.0010	0.010	0	98.1	76	123				
2-Butanone [MEK]	0.013	0.020	0.010	0	133	51	148				J
2-Hexanone	0.0069	0.0050	0.010	0	69.4	53	145				
Acetone	0.036	0.010	0.010	0	355	36	164				QY
Benzene	0.0097	0.00060	0.010	0	97.4	77	121				
Bromodichloromethane	0.0092	0.0010	0.010	0	92.2	75	127				
Bromoform	0.0055	0.0010	0.010	0	54.8	67	132				QY
Carbon disulfide	0.0090	0.0010	0.010	0	90.0	63	132				
Carbon tetrachloride	0.010	0.0010	0.010	0	100	70	135				
Chlorobenzene	0.0092	0.0010	0.010	0	91.8	79	120				
Chlorodibromomethane	0.0067	0.0010	0.010	0	66.8	74	126				QY
Chloroethane	0.012	0.0020	0.010	0	119	59	139				
Chloroform	0.0099	0.0010	0.010	0	99.2	78	123				
Chloromethane	0.012	0.0010	0.010	0	116	50	136				
cis-1,2-Dichloroethene	0.010	0.0010	0.010	0	103	77	123				
cis-1,3-Dichloropropene	0.0076	0.0010	0.010	0	75.6	74	126				
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	100	29	149				
Ethylbenzene	0.0091	0.0010	0.010	0	90.6	76	122				
Methylene chloride	0.013	0.0050	0.010	0	125	70	128				
Styrene	0.0082	0.0010	0.010	0	82.3	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86773

Sample ID:	VOA11B LCS 06181	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	86773
Client ID:	LCSS	Batch ID:	R86773	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683584

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0086	0.0010	0.010	0	86.5	73	128				
Toluene	0.0094	0.0010	0.010	0	94.0	77	121				
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	109	74	125				
trans-1,3-Dichloropropene	0.0077	0.0010	0.010	0	76.6	71	130				
Trichloroethene	0.0092	0.0010	0.010	0	92.1	77	123				
Trichlorofluoromethane [Freon-11]	0.012	0.0010	0.010	0	115	62	140				
Vinyl acetate	0.011	0.0050	0.010	0	106	50	151				
Vinyl chloride	0.012	0.00080	0.010	0	123	56	135				
Xylene (Total)	0.028	0.0030	0.030	0	94.4	78	124				
Surr: 4-Bromofluorobenzene	58		60.00		97.0	79	119				
Surr: Dibromofluoromethane	56		60.00		93.1	78	119				
Surr: Toluene-d8	58		60.00		96.1	85	116				

Sample ID:	VOA11B LCSD 0618	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	86773
Client ID:	LCSS02	Batch ID:	R86773	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683585

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0089	0.0010	0.010	0	88.9	78	125	0.0088	1.25	25	
1,1,1-Trichloroethane	0.0098	0.0010	0.010	0	97.6	73	130	0.0098	0.409	25	
1,1,2,2-Tetrachloroethane	0.0081	0.0010	0.010	0	81.0	70	124	0.0084	3.64	25	
1,1,2-Trichloroethane	0.0084	0.0010	0.010	0	84.4	78	121	0.0086	1.53	25	
1,1-Dichloroethane	0.010	0.0010	0.010	0	103	76	125	0.010	0.195	25	
1,1-Dichloroethene	0.010	0.0010	0.010	0	102	70	131	0.010	1.18	25	
1,2,3-Trichloropropane	0.0078	0.0010	0.010	0	77.8	73	125	0.0085	8.49	25	
1,2-Dibromo-3-chloropropane	0.0065	0.0050	0.010	0	65.1	61	132	0.0059	9.83	25	Y
1,2-Dibromoethane	0.0086	0.0010	0.010	0	85.8	78	122	0.0086	0.465	25	
1,2-Dichloroethane	0.010	0.0010	0.010	0	101	73	128	0.0098	2.32	25	
1,2-Dichloropropane	0.0094	0.0010	0.010	0	93.8	76	123	0.0098	4.48	25	
2-Butanone [MEK]	0.021	0.020	0.010	0	213	51	148	0.013	46.0	25	RQ
2-Hexanone	0.0063	0.0050	0.010	0	63.1	53	145	0.0069	9.51	25	
Acetone	0.024	0.010	0.010	0	244	36	164	0.036	37.2	25	RQY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86773

Sample ID:	**VOA11B LCSD 0618**	Samp Type:	**LCSD**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/18/2016**	RunNo:	**86773**
Client ID:	**LCSS02**	Batch ID:	**R86773**	TestNo:	**SW8260B**			Analysis Date:	**6/18/2016**	SeqNo:	**1683585**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0099	0.00060	0.010	0	98.8	77	121	0.0097	1.43	25	
Bromodichloromethane	0.0090	0.0010	0.010	0	89.8	75	127	0.0092	2.64	25	
Bromoform	0.0052	0.0010	0.010	0	52.1	67	132	0.0055	5.05	25	QY
Carbon disulfide	0.0092	0.0010	0.010	0	91.5	63	132	0.0090	1.65	25	
Carbon tetrachloride	0.0099	0.0010	0.010	0	99.0	70	135	0.010	1.20	25	
Chlorobenzene	0.0091	0.0010	0.010	0	91.2	79	120	0.0092	0.656	25	
Chlorodibromomethane	0.0066	0.0010	0.010	0	65.8	74	126	0.0067	1.51	25	QY
Chloroethane	0.012	0.0020	0.010	0	121	59	139	0.012	2.09	25	
Chloroform	0.0098	0.0010	0.010	0	98.4	78	123	0.0099	0.810	25	
Chloromethane	0.012	0.0010	0.010	0	118	50	136	0.012	1.80	25	
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	107	77	123	0.010	4.29	25	
cis-1,3-Dichloropropene	0.0074	0.0010	0.010	0	73.9	74	126	0.0076	2.27	25	Q
Dichlorodifluoromethane [Freon-12]	0.0098	0.0010	0.010	0	98.2	29	149	0.010	1.82	25	
Ethylbenzene	0.0092	0.0010	0.010	0	91.6	76	122	0.0091	1.10	25	
Methylene chloride	0.015	0.0050	0.010	0	145	70	128	0.013	14.9	25	Q
Styrene	0.0076	0.0010	0.010	0	76.5	76	124	0.0082	7.30	25	
Tetrachloroethene	0.0086	0.0010	0.010	0	85.8	73	128	0.0086	0.813	25	
Toluene	0.0097	0.0010	0.010	0	96.8	77	121	0.0094	2.94	25	
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	106	74	125	0.011	3.07	25	
trans-1,3-Dichloropropene	0.0074	0.0010	0.010	0	73.5	71	130	0.0077	4.13	25	
Trichloroethene	0.0092	0.0010	0.010	0	91.7	77	123	0.0092	0.435	25	
Trichlorofluoromethane [Freon-11]	0.012	0.0010	0.010	0	116	62	140	0.012	1.04	25	
Vinyl acetate	0.010	0.0050	0.010	0	103	50	151	0.011	2.58	25	
Vinyl chloride	0.012	0.00080	0.010	0	118	56	135	0.012	3.49	25	
Xylene (Total)	0.028	0.0030	0.030	0	92.6	78	124	0.028	1.89	25	
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119		0	25	
Surr: Dibromofluoromethane	55		60.00		92.1	78	119		0	25	
Surr: Toluene-d8	57		60.00		95.5	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86773**

Sample ID:	**VOA11B MBLK 0618**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/18/2016**	RunNo:	**86773**
Client ID:	**PBS**	Batch ID:	**R86773**	TestNo:	**SW8260B**			Analysis Date:	**6/18/2016**	SeqNo:	**1683587**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									UY
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.015	0.010									TY
Benzene	0.00060	0.00060									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									UY
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									UY
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0045	0.0050									JT
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86773

Sample ID:	VOA11B MBLK 0618	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	86773
Client ID:	PBS	Batch ID:	R86773	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683587

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00058	0.0010									JT
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									U
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	44		50.00		88.8	79	119				
Surr: Dibromofluoromethane	45		50.00		90.0	78	119				
Surr: Toluene-d8	44		50.00		88.7	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86778**

Sample ID:	**1606524-012B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/17/2016**	RunNo:	**86778**
Client ID:	**ZZZZZZ**	Batch ID:	**R86778**	TestNo:	**D2216**			Analysis Date:	**6/17/2016**	SeqNo:	**1684463**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	8.1	1.0						8.573	5.69	20	

Sample ID:	**1606525-015D DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/17/2016**	RunNo:	**86778**
Client ID:	**MP-SS03-01LR1**	Batch ID:	**R86778**	TestNo:	**D2216**			Analysis Date:	**6/17/2016**	SeqNo:	**1684483**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	19	1.0						17.36	8.93	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86780**

Sample ID:	**1606522-006B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/17/2016**	RunNo:	**86780**	
Client ID:	**ZZZZZZ**	Batch ID:	**R86780**	TestNo:	**D2216**			Analysis Date:	**6/17/2016**	SeqNo:	**1683737**	

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	63	1.0						66.04	5.12	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	VOA11B LCS 06201	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	LCSS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.41	0.050	0.50	0	81.4	78	125				
1,1,1-Trichloroethane	0.47	0.050	0.50	0	94.3	73	130				
1,1,2,2-Tetrachloroethane	0.46	0.050	0.50	0	92.4	70	124				
1,1,2-Trichloroethane	0.46	0.050	0.50	0	92.2	78	121				
1,1-Dichloroethane	0.46	0.050	0.50	0	91.8	76	125				
1,1-Dichloroethene	0.47	0.050	0.50	0	93.0	70	131				
1,2,3-Trichloropropane	0.48	0.050	0.50	0	96.1	73	125				
1,2-Dibromo-3-chloropropane	0.46	0.25	0.50	0	92.3	61	132				
1,2-Dibromoethane	0.50	0.050	0.50	0	99.3	78	122				
1,2-Dichloroethane	0.50	0.050	0.50	0	101	73	128				
1,2-Dichloropropane	0.45	0.050	0.50	0	90.3	76	123				
2-Butanone [MEK]	0.42	0.50	0.50	0	85.0	51	148				J
2-Hexanone	0.39	0.10	0.50	0	77.4	53	145				
Acetone	0.49	0.25	0.50	0	97.9	36	164				
Benzene	0.44	0.050	0.50	0	87.8	77	121				
Bromodichloromethane	0.40	0.050	0.50	0	80.7	75	127				
Bromoform	0.33	0.050	0.50	0	65.5	67	132				Q
Carbon disulfide	0.37	0.050	0.50	0	74.7	63	132				
Carbon tetrachloride	0.52	0.050	0.50	0	104	70	135				Y
Chlorobenzene	0.45	0.050	0.50	0	90.2	79	120				
Chlorodibromomethane	0.38	0.050	0.50	0	75.0	74	126				
Chloroethane	0.64	0.25	0.50	0	127	59	139				YZ
Chloroform	0.47	0.050	0.50	0	94.8	78	123				
Chloromethane	0.41	0.050	0.50	0	81.8	50	136				
cis-1,2-Dichloroethene	0.48	0.050	0.50	0	95.2	77	123				
cis-1,3-Dichloropropene	0.40	0.050	0.50	0	79.6	74	126				
Dichlorodifluoromethane [Freon-12]	0.47	0.25	0.50	0	93.2	29	149				
Ethylbenzene	0.45	0.050	0.50	0	89.3	76	122				
Methylene chloride	0.55	0.10	0.50	0	110	70	128				
Styrene	0.38	0.050	0.50	0	76.8	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	VOA11B LCS 06201	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	LCSS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.46	0.050	0.50	0	92.4	73	128				
Toluene	0.42	0.050	0.50	0	84.5	77	121				
trans-1,2-Dichloroethene	0.47	0.050	0.50	0	94.8	74	125				
trans-1,3-Dichloropropene	0.40	0.050	0.50	0	79.0	71	130				
Trichloroethene	0.45	0.050	0.50	0	90.1	77	123				
Trichlorofluoromethane [Freon-11]	0.43	0.050	0.50	0	85.6	62	140				
Vinyl acetate	0.47	1.2	0.50	0	93.4	50	151				J
Vinyl chloride	0.40	0.040	0.50	0	79.1	56	135				
Xylene (Total)	1.4	0.15	1.5	0	91.1	78	124				
Surr: 4-Bromofluorobenzene	3,000		3,000		101	79	119				
Surr: Dibromofluoromethane	2,900		3,000		95.2	78	119				
Surr: Toluene-d8	2,800		3,000		94.3	85	116				

Sample ID:	VOA11B MBLK 0620	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	PBS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683821

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.030	0.050									U
1,1,1-Trichloroethane	0.030	0.050									U
1,1,2,2-Tetrachloroethane	0.030	0.050									U
1,1,2-Trichloroethane	0.030	0.050									U
1,1-Dichloroethane	0.030	0.050									U
1,1-Dichloroethene	0.030	0.050									U
1,2,3-Trichloropropane	0.030	0.050									U
1,2-Dibromo-3-chloropropane	0.10	0.25									U
1,2-Dibromoethane	0.030	0.050									U
1,2-Dichloroethane	0.030	0.050									U
1,2-Dichloropropane	0.030	0.050									U
2-Butanone [MEK]	0.25	0.50									U
2-Hexanone	0.050	0.10									U
Acetone	0.10	0.25									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	VOA11B MBLK 0620	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	PBS	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1683821

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.030	0.050									U
Bromodichloromethane	0.030	0.050									U
Bromoform	0.030	0.050									U
Carbon disulfide	0.030	0.050									U
Carbon tetrachloride	0.030	0.050									UY
Chlorobenzene	0.030	0.050									U
Chlorodibromomethane	0.030	0.050									U
Chloroethane	0.10	0.25									UYZ
Chloroform	0.030	0.050									U
Chloromethane	0.030	0.050									U
cis-1,2-Dichloroethene	0.030	0.050									U
cis-1,3-Dichloropropene	0.030	0.050									U
Dichlorodifluoromethane [Freon-12]	0.10	0.25									U
Ethylbenzene	0.030	0.050									U
Methylene chloride	0.050	0.10									U
Styrene	0.030	0.050									U
Tetrachloroethene	0.030	0.050									U
Toluene	0.030	0.050									U
trans-1,2-Dichloroethene	0.030	0.050									U
trans-1,3-Dichloropropene	0.030	0.050									U
Trichloroethene	0.030	0.050									U
Trichlorofluoromethane [Freon-11]	0.030	0.050									U
Vinyl acetate	0.030	1.2									U
Vinyl chloride	0.030	0.040									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,400		2,500		94.5	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.3	78	119				
Surr: Toluene-d8	2,200		2,500		88.7	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	1606522-007AMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684059

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.40	0.050	0.50	0	80.0	78	125				
1,1,1-Trichloroethane	0.48	0.050	0.50	0	95.7	73	130				
1,1,2,2-Tetrachloroethane	0.47	0.050	0.50	0	94.4	70	124				
1,1,2-Trichloroethane	0.47	0.050	0.50	0	94.7	78	121				
1,1-Dichloroethane	0.46	0.050	0.50	0	92.5	76	125				
1,1-Dichloroethene	0.47	0.050	0.50	0	93.1	70	131				
1,2,3-Trichloropropane	0.50	0.050	0.50	0	99.2	73	125				
1,2-Dibromo-3-chloropropane	0.35	0.25	0.50	0	70.1	61	132				
1,2-Dibromoethane	0.49	0.050	0.50	0	97.0	78	122				
1,2-Dichloroethane	0.53	0.050	0.50	0	105	73	128				
1,2-Dichloropropane	0.43	0.050	0.50	0	86.4	76	123				
2-Butanone [MEK]	0.44	0.50	0.50	0	88.7	51	148				J
2-Hexanone	0.40	0.10	0.50	0	80.7	53	145				
Acetone	0.51	0.25	0.50	0	102	36	164				
Benzene	0.44	0.050	0.50	0	88.3	77	121				
Bromodichloromethane	0.39	0.050	0.50	0	78.4	75	127				
Bromoform	0.35	0.050	0.50	0	69.6	67	132				
Carbon disulfide	0.38	0.050	0.50	0	75.3	63	132				
Carbon tetrachloride	0.51	0.050	0.50	0	102	70	135				Y
Chlorobenzene	0.44	0.050	0.50	0	89.0	79	120				
Chlorodibromomethane	0.35	0.050	0.50	0	69.6	74	126				Q
Chloroethane	0.93	0.25	0.50	0	186	59	139				QYZ
Chloroform	0.49	0.050	0.50	0	98.0	78	123				
Chloromethane	0.43	0.050	0.50	0	86.3	50	136				
cis-1,2-Dichloroethene	0.44	0.050	0.50	0	88.9	77	123				
cis-1,3-Dichloropropene	0.35	0.050	0.50	0	69.8	74	126				Q
Dichlorodifluoromethane [Freon-12]	0.50	0.25	0.50	0	101	29	149				
Ethylbenzene	0.42	0.050	0.50	0	84.1	76	122				
Methylene chloride	0.52	0.10	0.50	0.042	95.7	70	128				
Styrene	0.38	0.050	0.50	0	75.6	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	1606522-007AMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684059

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.44	0.050	0.50	0	88.2	73	128				
Toluene	0.41	0.050	0.50	0	82.0	77	121				
trans-1,2-Dichloroethene	0.48	0.050	0.50	0	95.3	74	125				
trans-1,3-Dichloropropene	0.37	0.050	0.50	0	73.8	71	130				
Trichloroethene	0.44	0.050	0.50	0	87.9	77	123				
Trichlorofluoromethane [Freon-11]	0.46	0.050	0.50	0	91.1	62	140				
Vinyl acetate	0.48	1.2	0.50	0	96.0	50	151				J
Vinyl chloride	0.44	0.040	0.50	0	88.7	56	135				
Xylene (Total)	1.3	0.15	1.5	0	86.7	78	124				
Surr: 4-Bromofluorobenzene	3,100		3,000		104	79	119				
Surr: Dibromofluoromethane	3,000		3,000		101	78	119				
Surr: Toluene-d8	2,800		3,000		94.6	85	116				

Sample ID:	1606522-007AMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684060

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.41	0.050	0.50	0	82.5	78	125	0.40	3.08	25	
1,1,1-Trichloroethane	0.49	0.050	0.50	0	97.8	73	130	0.48	2.17	25	
1,1,2,2-Tetrachloroethane	0.50	0.050	0.50	0	99.9	70	124	0.47	5.66	25	
1,1,2-Trichloroethane	0.46	0.050	0.50	0	92.1	78	121	0.47	2.78	25	
1,1-Dichloroethane	0.47	0.050	0.50	0	93.6	76	125	0.46	1.18	25	
1,1-Dichloroethene	0.46	0.050	0.50	0	91.6	70	131	0.47	1.62	25	
1,2,3-Trichloropropane	0.49	0.050	0.50	0	98.9	73	125	0.50	0.303	25	
1,2-Dibromo-3-chloropropane	0.41	0.25	0.50	0	82.3	61	132	0.35	16.0	25	
1,2-Dibromoethane	0.51	0.050	0.50	0	102	78	122	0.49	4.63	25	
1,2-Dichloroethane	0.52	0.050	0.50	0	103	73	128	0.53	2.11	25	
1,2-Dichloropropane	0.44	0.050	0.50	0	88.3	76	123	0.43	2.18	25	
2-Butanone [MEK]	0.47	0.50	0.50	0	94.2	51	148	0.44	6.01	25	J
2-Hexanone	0.44	0.10	0.50	0	88.5	53	145	0.40	9.22	25	
Acetone	0.55	0.25	0.50	0	110	36	164	0.51	7.35	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86786

Sample ID:	1606522-007AMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/20/2016	RunNo:	86786
Client ID:	ZZZZZZ	Batch ID:	R86786	TestNo:	SW8260B			Analysis Date:	6/20/2016	SeqNo:	1684060

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.44	0.050	0.50	0	87.2	77	121	0.44	1.25	25	
Bromodichloromethane	0.39	0.050	0.50	0	77.8	75	127	0.39	0.768	25	
Bromoform	0.35	0.050	0.50	0	69.7	67	132	0.35	0.144	25	
Carbon disulfide	0.36	0.050	0.50	0	73.0	63	132	0.38	3.10	25	
Carbon tetrachloride	0.52	0.050	0.50	0	104	70	135	0.51	1.36	25	Y
Chlorobenzene	0.44	0.050	0.50	0	87.4	79	120	0.44	1.81	25	
Chlorodibromomethane	0.37	0.050	0.50	0	74.6	74	126	0.35	6.93	25	
Chloroethane	0.91	0.25	0.50	0	181	59	139	0.93	2.77	25	QYZ
Chloroform	0.48	0.050	0.50	0	95.2	78	123	0.49	2.90	25	
Chloromethane	0.42	0.050	0.50	0	83.9	50	136	0.43	2.82	25	
cis-1,2-Dichloroethene	0.45	0.050	0.50	0	90.6	77	123	0.44	1.89	25	
cis-1,3-Dichloropropene	0.36	0.050	0.50	0	72.4	74	126	0.35	3.66	25	Q
Dichlorodifluoromethane [Freon-12]	0.49	0.25	0.50	0	97.6	29	149	0.50	3.23	25	
Ethylbenzene	0.42	0.050	0.50	0	84.9	76	122	0.42	0.947	25	
Methylene chloride	0.53	0.10	0.50	0.042	98.2	70	128	0.52	2.38	25	
Styrene	0.37	0.050	0.50	0	73.2	76	124	0.38	3.23	25	Q
Tetrachloroethene	0.44	0.050	0.50	0	88.3	73	128	0.44	0.113	25	
Toluene	0.41	0.050	0.50	0	81.1	77	121	0.41	1.10	25	
trans-1,2-Dichloroethene	0.48	0.050	0.50	0	95.8	74	125	0.48	0.523	25	
trans-1,3-Dichloropropene	0.38	0.050	0.50	0	75.1	71	130	0.37	1.75	25	
Trichloroethene	0.43	0.050	0.50	0	86.9	77	123	0.44	1.14	25	
Trichlorofluoromethane [Freon-11]	0.47	0.050	0.50	0	93.5	62	140	0.46	2.60	25	
Vinyl acetate	0.51	1.2	0.50	0	101	50	151	0.48	5.47	25	J
Vinyl chloride	0.44	0.040	0.50	0	87.5	56	135	0.44	1.36	25	
Xylene (Total)	1.3	0.15	1.5	0	86.7	78	124	1.3	0.0385	25	
Surr: 4-Bromofluorobenzene	3,100		3,000		104	79	119		0	25	
Surr: Dibromofluoromethane	3,100		3,000		102	78	119		0	25	
Surr: Toluene-d8	2,800		3,000		93.8	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86807

Sample ID:	**VOA11B LCS 06211**	Samp Type:	**LCS**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/21/2016**	RunNo:	**86807**
Client ID:	**LCSS**	Batch ID:	**R86807**	TestNo:	**SW8260B**			Analysis Date:	**6/21/2016**	SeqNo:	**1684271**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0092	0.0010	0.010	0	92.5	78	125				
1,1,1-Trichloroethane	0.011	0.0010	0.010	0	105	73	130				
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	100	70	124				
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	101	78	121				
1,1-Dichloroethane	0.010	0.0010	0.010	0	105	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	105	70	131				
1,2,3-Trichloropropane	0.010	0.0010	0.010	0	104	73	125				
1,2-Dibromo-3-chloropropane	0.0098	0.0050	0.010	0	98.2	61	132				
1,2-Dibromoethane	0.010	0.0010	0.010	0	102	78	122				
1,2-Dichloroethane	0.012	0.0010	0.010	0	116	73	128				
1,2-Dichloropropane	0.010	0.0010	0.010	0	101	76	123				
2-Butanone [MEK]	0.016	0.020	0.010	0	160	51	148				JQ
2-Hexanone	0.010	0.0050	0.010	0	101	53	145				
Acetone	0.025	0.010	0.010	0	247	36	164				QY
Benzene	0.0097	0.00060	0.010	0	96.8	77	121				
Bromodichloromethane	0.010	0.0010	0.010	0	104	75	127				
Bromoform	0.0072	0.0010	0.010	0	71.7	67	132				Y
Carbon disulfide	0.0092	0.0010	0.010	0	92.4	63	132				
Carbon tetrachloride	0.011	0.0010	0.010	0	113	70	135				Y
Chlorobenzene	0.0093	0.0010	0.010	0	92.9	79	120				
Chlorodibromomethane	0.0081	0.0010	0.010	0	81.0	74	126				
Chloroethane	0.010	0.0020	0.010	0	101	59	139				
Chloroform	0.010	0.0010	0.010	0	105	78	123				
Chloromethane	0.010	0.0010	0.010	0	99.8	50	136				
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	109	77	123				
cis-1,3-Dichloropropene	0.0080	0.0010	0.010	0	80.1	74	126				
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	100	29	149				
Ethylbenzene	0.0094	0.0010	0.010	0	93.6	76	122				
Methylene chloride	0.012	0.0050	0.010	0	125	70	128				
Styrene	0.0079	0.0010	0.010	0	78.7	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86807

Sample ID:	VOA11B LCS 06211	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	86807
Client ID:	LCSS	Batch ID:	R86807	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684271

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0087	0.0010	0.010	0	87.1	73	128				
Toluene	0.0096	0.0010	0.010	0	96.5	77	121				
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	109	74	125				
trans-1,3-Dichloropropene	0.0086	0.0010	0.010	0	85.9	71	130				
Trichloroethene	0.0093	0.0010	0.010	0	93.1	77	123				
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	110	62	140				
Vinyl acetate	0.013	0.0050	0.010	0	134	50	151				Y
Vinyl chloride	0.010	0.00080	0.010	0	99.5	56	135				
Xylene (Total)	0.028	0.0030	0.030	0	94.0	78	124				
Surr: 4-Bromofluorobenzene	60		60.00		100	79	119				
Surr: Dibromofluoromethane	58		60.00		97.2	78	119				
Surr: Toluene-d8	57		60.00		95.2	85	116				

Sample ID:	VOA11B LCSD 0621	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	86807
Client ID:	LCSS02	Batch ID:	R86807	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684272

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0097	0.0010	0.010	0	96.7	78	125	0.0092	4.44	25	
1,1,1-Trichloroethane	0.011	0.0010	0.010	0	108	73	130	0.011	2.44	25	
1,1,2,2-Tetrachloroethane	0.0092	0.0010	0.010	0	91.9	70	124	0.010	8.64	25	
1,1,2-Trichloroethane	0.0097	0.0010	0.010	0	97.4	78	121	0.010	3.53	25	
1,1-Dichloroethane	0.011	0.0010	0.010	0	107	76	125	0.010	1.80	25	
1,1-Dichloroethene	0.011	0.0010	0.010	0	108	70	131	0.010	2.82	25	
1,2,3-Trichloropropane	0.0095	0.0010	0.010	0	94.7	73	125	0.010	9.74	25	
1,2-Dibromo-3-chloropropane	0.0078	0.0050	0.010	0	78.2	61	132	0.0098	22.7	25	
1,2-Dibromoethane	0.010	0.0010	0.010	0	99.5	78	122	0.010	2.38	25	
1,2-Dichloroethane	0.012	0.0010	0.010	0	120	73	128	0.012	4.07	25	
1,2-Dichloropropane	0.011	0.0010	0.010	0	106	76	123	0.010	4.75	25	
2-Butanone [MEK]	0.011	0.020	0.010	0	111	51	148	0.016	36.3	25	JR
2-Hexanone	0.0090	0.0050	0.010	0	89.5	53	145	0.010	12.1	25	
Acetone	0.018	0.010	0.010	0	178	36	164	0.025	32.2	25	RQY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86807

Sample ID:	VOA11B LCSD 0621	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	86807
Client ID:	LCSS02	Batch ID:	R86807	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684272

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.010	0.00060	0.010	0	100	77	121	0.0097	3.35	25	
Bromodichloromethane	0.011	0.0010	0.010	0	108	75	127	0.010	3.40	25	
Bromoform	0.0068	0.0010	0.010	0	68.4	67	132	0.0072	4.71	25	Y
Carbon disulfide	0.0095	0.0010	0.010	0	95.3	63	132	0.0092	3.09	25	
Carbon tetrachloride	0.012	0.0010	0.010	0	117	70	135	0.011	3.48	25	Y
Chlorobenzene	0.0094	0.0010	0.010	0	93.6	79	120	0.0093	0.751	25	
Chlorodibromomethane	0.0077	0.0010	0.010	0	77.4	74	126	0.0081	4.55	25	
Chloroethane	0.010	0.0020	0.010	0	103	59	139	0.010	2.15	25	
Chloroform	0.011	0.0010	0.010	0	105	78	123	0.010	0.667	25	
Chloromethane	0.010	0.0010	0.010	0	102	50	136	0.010	2.38	25	
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	110	77	123	0.011	0.548	25	
cis-1,3-Dichloropropene	0.0082	0.0010	0.010	0	82.1	74	126	0.0080	2.47	25	
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	99.9	29	149	0.010	0.100	25	
Ethylbenzene	0.0096	0.0010	0.010	0	96.3	76	122	0.0094	2.84	25	
Methylene chloride	0.012	0.0050	0.010	0	120	70	128	0.012	4.08	25	
Styrene	0.0080	0.0010	0.010	0	80.2	76	124	0.0079	1.89	25	
Tetrachloroethene	0.0090	0.0010	0.010	0	90.2	73	128	0.0087	3.50	25	
Toluene	0.0098	0.0010	0.010	0	98.5	77	121	0.0096	2.05	25	
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	114	74	125	0.011	4.14	25	
trans-1,3-Dichloropropene	0.0087	0.0010	0.010	0	87.4	71	130	0.0086	1.73	25	
Trichloroethene	0.0095	0.0010	0.010	0	95.0	77	123	0.0093	2.02	25	
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	114	62	140	0.011	4.11	25	
Vinyl acetate	0.013	0.0050	0.010	0	126	50	151	0.013	6.39	25	Y
Vinyl chloride	0.010	0.00080	0.010	0	105	56	135	0.010	5.28	25	
Xylene (Total)	0.029	0.0030	0.030	0	95.9	78	124	0.028	1.93	25	
Surr: 4-Bromofluorobenzene	60		60.00		99.8	79	119		0	25	
Surr: Dibromofluoromethane	59		60.00		98.0	78	119		0	25	
Surr: Toluene-d8	59		60.00		97.8	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86807**

Sample ID:	**VOA11B MBLK 0621**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/21/2016**	RunNo:	**86807**
Client ID:	**PBS**	Batch ID:	**R86807**	TestNo:	**SW8260B**			Analysis Date:	**6/21/2016**	SeqNo:	**1684274**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.0049	0.010									JY
Benzene	0.00060	0.00060									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									UY
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									UY
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0020	0.0050									U
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86807**

Sample ID:	**VOA11B MBLK 0621**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/21/2016**	RunNo:	**86807**
Client ID:	**PBS**	Batch ID:	**R86807**	TestNo:	**SW8260B**			Analysis Date:	**6/21/2016**	SeqNo:	**1684274**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									UY
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	45		50.00		90.3	79	119				
Surr: Dibromofluoromethane	47		50.00		94.6	78	119				
Surr: Toluene-d8	44		50.00		89.0	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87287

Sample ID:	VOA11B LCS5 06171	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87287
Client ID:	LCSS	Batch ID:	R87287	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1694188

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0096	0.0010	0.010	0	96.4	75	123				
1,3,5-Trimethylbenzene	0.0099	0.0010	0.010	0	98.7	73	124				
Benzene	0.010	0.0010	0.010	0	101	77	121				
Ethylbenzene	0.0097	0.0010	0.010	0	97.0	76	122				
Isopropylbenzene	0.0098	0.0010	0.010	0	98.5	68	134				
Methyl tert-butyl ether [MTBE]	0.0099	0.0010	0.010	0	99.0	73	125				
n-Butylbenzene	0.010	0.0010	0.010	0	104	70	128				
n-Propylbenzene	0.0097	0.0010	0.010	0	97.2	73	125				
Naphthalene	0.0097	0.0050	0.010	0	96.7	62	129				
p-Isopropyltoluene [p-Cymene]	0.0099	0.0010	0.010	0	98.6	73	127				
sec-Butylbenzene	0.010	0.0020	0.010	0	104	73	126				
tert-Butylbenzene	0.0098	0.0010	0.010	0	98.3	73	125				
Toluene	0.0098	0.0010	0.010	0	98.4	77	121				
Xylene (Total)	0.029	0.0030	0.030	0	97.3	78	124				
Surr: 4-Bromofluorobenzene	58		60.00		97.0	79	119				
Surr: Dibromofluoromethane	56		60.00		93.6	78	119				
Surr: Toluene-d8	58		60.00		96.2	85	116				

Sample ID:	VOA11B LCSD5 0617	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87287
Client ID:	LCSS02	Batch ID:	R87287	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1694189

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0090	0.0010	0.010	0	89.7	75	123	0.0096	7.20	25	
1,3,5-Trimethylbenzene	0.0092	0.0010	0.010	0	92.3	73	124	0.0099	6.70	25	
Benzene	0.0095	0.0010	0.010	0	94.9	77	121	0.010	5.83	25	
Ethylbenzene	0.0091	0.0010	0.010	0	91.2	76	122	0.0097	6.16	25	
Isopropylbenzene	0.0092	0.0010	0.010	0	91.5	68	134	0.0098	7.37	25	
Methyl tert-butyl ether [MTBE]	0.0091	0.0010	0.010	0	90.9	73	125	0.0099	8.53	25	
n-Butylbenzene	0.0093	0.0010	0.010	0	93.2	70	128	0.010	10.7	25	
n-Propylbenzene	0.0089	0.0010	0.010	0	89.1	73	125	0.0097	8.70	25	
Naphthalene	0.0076	0.0050	0.010	0	75.6	62	129	0.0097	24.5	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87287

Sample ID:	VOA11B LCSD5 0617	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87287
Client ID:	LCSS02	Batch ID:	R87287	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1694189

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.0091	0.0010	0.010	0	90.5	73	127	0.0099	8.57	25	
sec-Butylbenzene	0.0097	0.0020	0.010	0	97.1	73	126	0.010	6.86	25	
tert-Butylbenzene	0.0092	0.0010	0.010	0	91.7	73	125	0.0098	6.95	25	
Toluene	0.0093	0.0010	0.010	0	92.9	77	121	0.0098	5.75	25	
Xylene (Total)	0.027	0.0030	0.030	0	90.3	78	124	0.029	7.39	25	
Surr: 4-Bromofluorobenzene	58		60.00		96.1	79	119		0	25	
Surr: Dibromofluoromethane	56		60.00		92.6	78	119		0	25	
Surr: Toluene-d8	57		60.00		95.4	85	116		0	25	

Sample ID:	VOA11B MBLK5 0617	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/17/2016	RunNo:	87287
Client ID:	PBS	Batch ID:	R87287	TestNo:	SW8260B			Analysis Date:	6/17/2016	SeqNo:	1694191

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.00060	0.0010									U
1,3,5-Trimethylbenzene	0.00060	0.0010									U
Benzene	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Isopropylbenzene	0.00060	0.0010									U
Methyl tert-butyl ether [MTBE]	0.00060	0.0010									U
n-Butylbenzene	0.00060	0.0010									U
n-Propylbenzene	0.00060	0.0010									U
Naphthalene	0.00060	0.0050									U
p-Isopropyltoluene [p-Cymene]	0.00060	0.0010									U
sec-Butylbenzene	0.0010	0.0020									U
tert-Butylbenzene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	43		50.00		86.4	79	119				
Surr: Dibromofluoromethane	43		50.00		86.4	78	119				
Surr: Toluene-d8	44		50.00		87.1	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87289

Sample ID:	VOA11B LCS5 06181	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	87289
Client ID:	LCSS	Batch ID:	R87289	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1694206

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0093	0.0010	0.010	0	93.1	75	123				
1,3,5-Trimethylbenzene	0.0097	0.0010	0.010	0	96.7	73	124				
Benzene	0.0097	0.0010	0.010	0	97.4	77	121				
Ethylbenzene	0.0091	0.0010	0.010	0	90.6	76	122				
Isopropylbenzene	0.0093	0.0010	0.010	0	93.3	68	134				
Methyl tert-butyl ether [MTBE]	0.0082	0.0010	0.010	0	82.4	73	125				
n-Butylbenzene	0.010	0.0010	0.010	0	99.8	70	128				
n-Propylbenzene	0.0094	0.0010	0.010	0	94.5	73	125				
Naphthalene	0.0069	0.0050	0.010	0	69.2	62	129				
p-Isopropyltoluene [p-Cymene]	0.0098	0.0010	0.010	0	97.7	73	127				
sec-Butylbenzene	0.010	0.0020	0.010	0	101	73	126				
tert-Butylbenzene	0.0093	0.0010	0.010	0	93.1	73	125				
Toluene	0.0094	0.0010	0.010	0	94.0	77	121				
Xylene (Total)	0.028	0.0030	0.030	0	94.4	78	124				
Surr: 4-Bromofluorobenzene	58		60.00		97.0	79	119				
Surr: Dibromofluoromethane	56		60.00		93.1	78	119				
Surr: Toluene-d8	58		60.00		96.1	85	116				

Sample ID:	VOA11B LCSD5 0618	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	87289
Client ID:	LCSS02	Batch ID:	R87289	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1694207

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0091	0.0010	0.010	0	90.8	75	123	0.0093	2.50	25	
1,3,5-Trimethylbenzene	0.0094	0.0010	0.010	0	94.1	73	124	0.0097	2.73	25	
Benzene	0.0099	0.0010	0.010	0	98.8	77	121	0.0097	1.43	25	
Ethylbenzene	0.0092	0.0010	0.010	0	91.6	76	122	0.0091	1.10	25	
Isopropylbenzene	0.0095	0.0010	0.010	0	94.8	68	134	0.0093	1.59	25	
Methyl tert-butyl ether [MTBE]	0.0086	0.0010	0.010	0	85.6	73	125	0.0082	3.81	25	
n-Butylbenzene	0.0097	0.0010	0.010	0	97.0	70	128	0.010	2.85	25	
n-Propylbenzene	0.0092	0.0010	0.010	0	92.3	73	125	0.0094	2.36	25	
Naphthalene	0.0062	0.0050	0.010	0	61.7	62	129	0.0069	11.5	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87289

Sample ID:	VOA11B LCSD5 0618	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	87289
Client ID:	LCSS02	Batch ID:	R87289	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1694207

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.0093	0.0010	0.010	0	93.1	73	127	0.0098	4.82	25	
sec-Butylbenzene	0.0099	0.0020	0.010	0	98.6	73	126	0.010	2.80	25	
tert-Butylbenzene	0.0094	0.0010	0.010	0	94.0	73	125	0.0093	0.962	25	
Toluene	0.0097	0.0010	0.010	0	96.8	77	121	0.0094	2.94	25	
Xylene (Total)	0.028	0.0030	0.030	0	92.6	78	124	0.028	1.89	25	
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119		0	25	
Surr: Dibromofluoromethane	55		60.00		92.1	78	119		0	25	
Surr: Toluene-d8	57		60.00		95.5	85	116		0	25	

Sample ID:	VOA11B MBLK5 0618	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	87289
Client ID:	PBS	Batch ID:	R87289	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1694209

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.00060	0.0010									U
1,3,5-Trimethylbenzene	0.00060	0.0010									U
Benzene	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Isopropylbenzene	0.00060	0.0010									U
Methyl tert-butyl ether [MTBE]	0.00060	0.0010									U
n-Butylbenzene	0.00060	0.0010									U
n-Propylbenzene	0.00060	0.0010									U
Naphthalene	0.00060	0.0050									U
p-Isopropyltoluene [p-Cymene]	0.00060	0.0010									U
sec-Butylbenzene	0.0010	0.0020									U
tert-Butylbenzene	0.00060	0.0010									U
Toluene	0.00058	0.0010									JT
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	44		50.00		88.8	79	119				
Surr: Dibromofluoromethane	45		50.00		90.0	78	119				
Surr: Toluene-d8	44		50.00		88.7	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87291

Sample ID:	VOA11B LCS5 06211	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87291
Client ID:	LCSS	Batch ID:	R87291	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1694241

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0096	0.0010	0.010	0	95.7	75	123				
1,3,5-Trimethylbenzene	0.0097	0.0010	0.010	0	97.1	73	124				
Benzene	0.0097	0.0010	0.010	0	96.8	77	121				
Ethylbenzene	0.0094	0.0010	0.010	0	93.6	76	122				
Isopropylbenzene	0.0094	0.0010	0.010	0	94.5	68	134				
Methyl tert-butyl ether [MTBE]	0.0098	0.0010	0.010	0	97.8	73	125				
n-Butylbenzene	0.0096	0.0010	0.010	0	96.0	70	128				
n-Propylbenzene	0.0094	0.0010	0.010	0	93.5	73	125				
Naphthalene	0.0085	0.0050	0.010	0	84.7	62	129				
p-Isopropyltoluene [p-Cymene]	0.0096	0.0010	0.010	0	96.1	73	127				
sec-Butylbenzene	0.010	0.0020	0.010	0	101	73	126				
tert-Butylbenzene	0.0096	0.0010	0.010	0	95.9	73	125				
Toluene	0.0096	0.0010	0.010	0	96.5	77	121				
Xylene (Total)	0.028	0.0030	0.030	0	94.0	78	124				
Surr: 4-Bromofluorobenzene	60		60.00		100	79	119				
Surr: Dibromofluoromethane	58		60.00		97.2	78	119				
Surr: Toluene-d8	57		60.00		95.2	85	116				

Sample ID:	VOA11B LCSD5 0621	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87291
Client ID:	LCSS02	Batch ID:	R87291	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1694242

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0098	0.0010	0.010	0	97.5	75	123	0.0096	1.86	25	
1,3,5-Trimethylbenzene	0.0099	0.0010	0.010	0	99.1	73	124	0.0097	2.04	25	
Benzene	0.010	0.0010	0.010	0	100	77	121	0.0097	3.35	25	
Ethylbenzene	0.0096	0.0010	0.010	0	96.3	76	122	0.0094	2.84	25	
Isopropylbenzene	0.0097	0.0010	0.010	0	96.6	68	134	0.0094	2.20	25	
Methyl tert-butyl ether [MTBE]	0.0095	0.0010	0.010	0	94.7	73	125	0.0098	3.22	25	
n-Butylbenzene	0.0098	0.0010	0.010	0	98.3	70	128	0.0096	2.37	25	
n-Propylbenzene	0.0095	0.0010	0.010	0	94.6	73	125	0.0094	1.17	25	
Naphthalene	0.0074	0.0050	0.010	0	73.5	62	129	0.0085	14.2	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87291

Sample ID:	VOA11B LCSD5 0621	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87291
Client ID:	LCSS02	Batch ID:	R87291	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1694242

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.0098	0.0010	0.010	0	97.9	73	127	0.0096	1.86	25	
sec-Butylbenzene	0.010	0.0020	0.010	0	102	73	126	0.010	1.58	25	
tert-Butylbenzene	0.0098	0.0010	0.010	0	98.2	73	125	0.0096	2.37	25	
Toluene	0.0098	0.0010	0.010	0	98.5	77	121	0.0096	2.05	25	
Xylene (Total)	0.029	0.0030	0.030	0	95.9	78	124	0.028	1.93	25	
Surr: 4-Bromofluorobenzene	60		60.00		99.8	79	119		0	25	
Surr: Dibromofluoromethane	59		60.00		98.0	78	119		0	25	
Surr: Toluene-d8	59		60.00		97.8	85	116		0	25	

Sample ID:	VOA11B MBLK5 0621	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87291
Client ID:	PBS	Batch ID:	R87291	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1694244

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.00060	0.0010									U
1,3,5-Trimethylbenzene	0.00060	0.0010									U
Benzene	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Isopropylbenzene	0.00060	0.0010									U
Methyl tert-butyl ether [MTBE]	0.00060	0.0010									U
n-Butylbenzene	0.00060	0.0010									U
n-Propylbenzene	0.00060	0.0010									U
Naphthalene	0.00060	0.0050									U
p-Isopropyltoluene [p-Cymene]	0.00060	0.0010									U
sec-Butylbenzene	0.0010	0.0020									U
tert-Butylbenzene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	45		50.00		90.3	79	119				
Surr: Dibromofluoromethane	47		50.00		94.6	78	119				
Surr: Toluene-d8	44		50.00		89.0	85	116				

RTI Laboratories - Definitions and Acronyms

WO#: 1606525

Date Reported: 8/25/2016
Revision v4

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

1606525

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061416-01
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
Field QC	—	—	TB	1	TB-SO-061316-01	6/13/16	0800	WQ	3	033	3											
WDS-SB12	04	05	N	1	WDS-SB12-05		0835	SO	5		4			i								
WDS-SB13	04	05	N	1	WDS-SB13-05		0820	SO	5		4			i								
HS-SS01	00	01	N	1	HS-SS01-01		0950	SS	5		4			i								
↓	01	02	N	1	HS-SS01-02		0955	SO	5		4			i								
HS-SS02	00	01	N	1	HS-SS02-01		0915	SS	5		4			i								
↓	00	01	FD	1	HS-SS02-01DUP		0915	SS	5		4			i								
↓	01	02	N	1	HS-SS02-02		0920	SO	5		4			i								
WDS-SB08	04	05	N	1	WDS-SB08-05		1320	SO	5		4			i								
WDS-SB09	05	06	N	1	WDS-SB09-06		1305	SO	5		4			i								
WDS-SB11	07	08	N	1	WDS-SB11-08		1040	SO	5		4			i								
MP-SB02	00	01	N	1	MP-SS01-01		0925	SS	5				4	i								MP-SS02-01
↓	00	01	FD	1	MP-SS01-01DUP		0925	SS	5	↓			4	i								MP-SS02-01 Dup

1. Relinquished By / Company: AECOM	Date: 6/14/16	Time: 1400	1. Received By / Company: Transfer to FedEx
2. Relinquished By / Company	Date	Time	2. Received By / Company: Fedex / RTI
3. Relinquished By / Company	Date	Time	3. Received By / Company

1. Received By / Company: Transfer to FedEx	Date: 6/14/16	Time: 1400	
2. Received By / Company: Fedex / RTI	Date: 6/15/16	Time: 935	
3. Received By / Company	Date	Time	

Comments: (VOCs) AOCs- H-5, WDS, Motor Pool, 11-16

Shipment Method/Airbill No.: 8103 0202 8775

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

#4 Vials Rec'd
QDL

*** Sample ID's on bottles

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606525

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
MP-SB02	10	11	N	1	MP-SB02-11	6/13/16	1130	SO	5	033			4	1								
MP-SB03	00	01	N	1	~~MP-SB03-01~~		1115	SS	5				4	1								MP-SS03-01
MP-SB03	08	09	N	1	MP-SB03-09		1130	SO	5				4	1								
H16-SB01	00	01	N	1	H16-SS01-01		1050	SS	5		4		4	1								
↓	04	05	N	1	H16-SB01-05		1055	SO	5		4			1								
↓	04	05	FD	1	H16-SB01-05DUP	↓	1055	SO	5	↓	4			1								

Chain of Custody: 0614H16-01
Batch May16

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
[illegible] AECOM	6/13/16	1800	Transferred to FedEx	6/14/16	1400
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			[illegible]	6/15/16	930
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

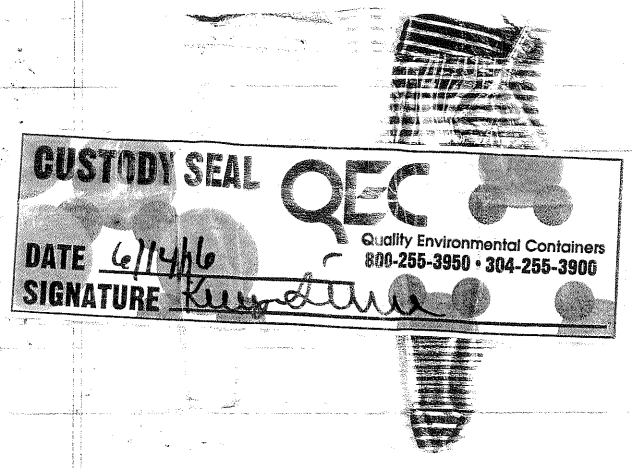
Shipment Method/Airbill No. 810502025773

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

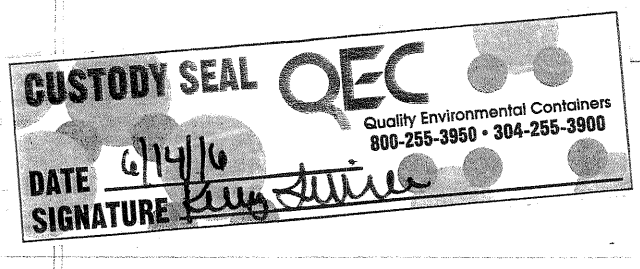
QDL

6/15/16



Cooler ID: A595
track# 8103 0202 5740
Cooler # 039
CoC 06/14/16-07
Cooler Temp Blank 3.6°C

Cooler # 034
Cooler ID: TA Buffalo
CoC ID: 06/14/16-02
TRACKing# 5703 0202 5784
Cooler Temp Blank: 2.4°C



Cooler # 037
Cooler ID Serenity 018
CoC ID 06/14/16-05
TRACking # 8103 0202 5729
Cooler Temp Blank 2.8°C

Cooler # 033
Cooler ID QDL
CoC ID 06/14/16-01
tracking 8103 0202 5773
Temp (Cooler) Blank 3.8°C

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Friday, August 26, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606529

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606529-001A	TB-GW-061416-02		6/14/2016 8:15 AM	6/16/2016 9:50 AM	Water
1606529-002A	AST35-SB02-GW		6/14/2016 10:05 AM	6/16/2016 9:50 AM	Groundwater
1606529-002B	AST35-SB02-GW		6/14/2016 10:05 AM	6/16/2016 9:50 AM	Groundwater
1606529-003A	AST35-SB03-GW		6/14/2016 10:55 AM	6/16/2016 9:50 AM	Groundwater
1606529-003B	AST35-SB03-GW		6/14/2016 10:55 AM	6/16/2016 9:50 AM	Groundwater
1606529-004A	AST35-SB03-GW DUP		6/14/2016 10:55 AM	6/16/2016 9:50 AM	Groundwater
1606529-004B	AST35-SB03-GW DUP		6/14/2016 10:55 AM	6/16/2016 9:50 AM	Groundwater
1606529-005A	AST35-SB04-GW		6/14/2016 12:00 PM	6/16/2016 9:50 AM	Groundwater
1606529-005B	AST35-SB04-GW		6/14/2016 12:00 PM	6/16/2016 9:50 AM	Groundwater

RTI Laboratories - Case Narrative

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)
Project:	Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Volatile Organic Compounds - 8260C
Semi-Volatile Organic Compounds - 8270D-MOD
Semi-Volatile Organic Compounds - 8270D SIM

Prep Batch (SW_3510BNA) / 40262:
Sample 1606529-005B: Re-Prep Method hold time was exceeded by 5.859 day(s). emulsion formed. centrifuge used.6/28/2016

Analytical Comments for Test SW_8260A, Analytical Run No 86938, Batch ID R86938:
Sample VOA11B CCV 062616: CCV results for1,2-Dibromo-3-chloropropane, acetone, Bromoform, and 2-hexanone exceed limits.
Sample VOA11B LCS 06261: Bromoform, Chlorodibromomethane, and cis-1,3-dichloropropene exceeded QC limits.
Sample VOA11B LCSD 0626: Bromoform, Chlorodibromomethane, cis-1,3-dichloropropene, ethyl benzene, styrene, 2-hexanone, and total Xylene exceeded QC limits.
Sample 1606529-002A: Surrogate recovery for Toluene-d8 exceeded QC limit.
Sample VOA11B CCVE 062616: CCV results for Trichlorofluoromethane, bromomethane and 4-isopropyltoluene exceed limits.

Analytical Comments for Test SW_8260A, Analytical Run No 86945, Batch ID R86945:
Sample VOA11B CCV2 062616: Acetone, Bromoform, chloromethane, Trichlorofluoromethane, and 2-hexanone exceed the 20% criteria.
Sample VOA11B MBLK2 062: Surrogate recovery for Toluene-d8 exceeded QC limit. Chloromethane > 1/2 LOQ.
Sample VOA11B LCS2 0626: LCS results for Bromodichloromethane,Chlorodibromomethane,cis-1,3-Dichloropropene, Styrene, total Xylene, Bromoform ,and Trichlorofluoromethane exceed the 20% criteria.
Sample VOA11B LCSD2 062: Spike recoveries for several analytes were outside the control limits.
Sample 1606529-003A: Surrogate recovery for Toluene-d8 exceeded QC limit.
Sample 1606529-005A: Surrogate recovery for Toluene-d8 exceeded QC limit.
Sample VOA11B CCVE 062616: Trichlorofluoromethane and bromomethane exceed the 50% criteria.

Analytical Comments for Test SW_8260A, Analytical Run No 86965, Batch ID R86965:
Sample VOA10 CCV 062716: 1,2-Dibromo-3-chloropropane and Chlorodibromomethane exceed the 20% criteria.
Sample VOA10 LCSD 06271: RPD for 1,2,4-Trichlorobenzene was outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86836, Batch ID 40190:
Sample LCS-40190: N-Nitrosodimethylamine, 4-Nitrophenol, Benzoic Acid, Phenol and Phenol-d5 exceeded control limit.
Sample LCSD-40190: Phenol-d5, N-Nitrosodimethylamine, and 4-Nitrophenol exceeded control limit. RPD for Benzoic Acid was outside the control limits.
Sample MB-40190: Surrogate recovery for Phenol-d5 was outside the control limits.
Sample 1606529-002B: Surrogate Phenol-d5 was outside the control limits.
Sample 1606529-003B: Surrogate Phenol-d5 was outside the control limits.
Sample 1606529-005B: Surrogates recovery for Phenol-d5, Nitrobenzene-d5, and 2-Fluorobiphenyl exceeded control limit.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86836, Batch ID R86836:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 062116: CCV results for 2,4-Dinitrophenol, Benzoic acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine, and Pentachlorophenol exceeded control limit.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86873, Batch ID 40190:
Sample 1606529-005B: Multiple failure in surrogates. Sample re-extracted and reanalyzed on Run ID 87381. Both Analytical Runs reported per client request.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86873, Batch ID R86873:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 062216: CCV results for 4-Nitrophenol,Benzoic acid, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl) ether, N-Nitrosodimethylamine, and Bis(2-chloroethyl) ether exceeded control limit.
Sample CCVE S8 062216: CCVE results for Hexachlorocyclopentadiene exceeded control limit.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87381, Batch ID 40262:
Sample LCS-40262: Benzoic Acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine, Phenol exceeded the control limit.
Sample 1606422-008B MS: Spike recoveries for 4-Nitrophenol, Hexachlorobenzene, N-Nitrosodimethylamine, Phenol and Phenol-d5 were outside the control limits.
Sample 1606422-008B MSD: Spike recoveries for 4-Bromophenyl phenyl ether, 4-Nitrophenol, Benzoic Acid, Hexachlorobenzene, N-Nitrosodimethylamine, and Phenol were outside the control limits. RPD for 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and N-Nitrosodimethylamine were outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87381, Batch ID R87381:
Sample ICV S7 031416: Bis(2-chloroisopropyl) ether exceeded the 20% criteria.
Sample CCV S7 063016: Benzoic acid, Bis(2-chloroisopropyl) ether exceeded the 20% criteria.
Sample CCVE S7 063016: Pentachlorophenol, Benzoic acid exceeded the 50% criteria.

Analytical Comments for Test SW_8270A-SIM, Analytical Run ID 87461, Batch ID 40213:
Sample 1606529-003B: Surrogates 2-Fluorobiphenyl and Nitrobenzene-d5 were outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:15:00 AM
Project:	Camp Hero		
Lab ID:	1606529-001	**Matrix:**	Water
Client Sample ID:	TB-GW-061416-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/26/2016 6:57 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/26/2016 6:57 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/26/2016 6:57 PM
2-Hexanone	1.0	UYQ	0.64	1.0	2.0	µg/L	1	6/26/2016 6:57 PM
Acetone	44	Y	0.56	0.60	10	µg/L	1	6/26/2016 6:57 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Bromoform	0.60	UYQ	0.25	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/26/2016 6:57 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Chloromethane	2.5		0.37	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Ethylbenzene	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Methylene chloride	0.66	J	0.27	0.60	5.0	µg/L	1	6/26/2016 6:57 PM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/26/2016 6:57 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/26/2016 6:57 PM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/26/2016 6:57 PM
Surr: 4-Bromofluorobenzene	91.1			85-114		%Rec	1	6/26/2016 6:57 PM
Surr: Dibromofluoromethane	97.7			80-119		%Rec	1	6/26/2016 6:57 PM
Surr: Toluene-d8	89.4			89-112		%Rec	1	6/26/2016 6:57 PM

RTI Laboratories - Analytical Report

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 10:05:00 AM
Project: Camp Hero
Lab ID: 1606529-002 **Matrix:** Groundwater
Client Sample ID: AST35-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.94	U	0.85	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
1,2-Dichlorobenzene	0.94	U	0.87	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
1,3-Dichlorobenzene	0.94	U	0.71	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
1,4-Dichlorobenzene	2.4	U	0.98	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
2,4,5-Trichlorophenol	2.4	U	1.0	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
2,4,6-Trichlorophenol	0.94	U	0.91	0.94	3.8	µg/L	1	6/21/2016 4:05 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
2,4-Dinitrophenol	9.4	UY	4.8	9.4	24	µg/L	1	6/21/2016 4:05 PM
2,4-Dinitrotoluene	0.94	U	0.57	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
2,6-Dinitrotoluene	0.94	U	0.80	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
2-Chloronaphthalene	0.94	U	0.83	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
2-Chlorophenol	0.94	U	0.82	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
2-Methylphenol (o-Cresol)	0.94	U	0.94	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
2-Nitroaniline	0.94	U	0.83	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
3,3´-Dichlorobenzidine	2.4	U	1.5	2.4	19	µg/L	1	6/21/2016 4:05 PM
3-Nitroaniline	0.94	U	0.79	0.94	9.4	µg/L	1	6/21/2016 4:05 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.4	µg/L	1	6/21/2016 4:05 PM
4,6-Dinitro-2-methylphenol	0.94	U	0.84	0.94	9.4	µg/L	1	6/21/2016 4:05 PM
4-Bromophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
4-Chloroaniline [p-Chloroaniline]	0.94	U	0.76	0.94	9.4	µg/L	1	6/21/2016 4:05 PM
4-Chlorophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.4	µg/L	1	6/21/2016 4:05 PM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/21/2016 4:05 PM
Benzoic acid	2.4	UY QZ	1.9	2.4	24	µg/L	1	6/21/2016 4:05 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/21/2016 4:05 PM
Bis(2-chloroethoxy) methane	2.4	U	0.99	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
Bis(2-chloroethyl) ether	2.4	U	0.97	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
Bis(2-chloroisopropyl)ether	2.4	UY Z	1.1	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
Bis(2-ethylhexyl) phthalate	0.94	U	0.66	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Butyl benzyl phthalate	2.4	U	0.97	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
Carbazole	0.94	U	0.57	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Di-n-butyl phthalate	0.94	U	0.55	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.7	µg/L	1	6/21/2016 4:05 PM
Dibenzofuran	0.94	U	0.71	0.94	3.8	µg/L	1	6/21/2016 4:05 PM
Diethyl phthalate	0.94	U	0.58	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Dimethyl phthalate	0.94	U	0.67	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Hexachlorobenzene	0.94	U	0.58	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Hexachlorobutadiene	0.94	U	0.81	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Hexachloroethane	0.94	U	0.69	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Isophorone	0.94	U	0.91	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.7	µg/L	1	6/21/2016 4:05 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 10:05:00 AM
Project: Camp Hero
Lab ID: 1606529-002 **Matrix:** Groundwater
Client Sample ID: AST35-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
N-Nitrosodimethylamine	0.94	UY Q	0.60	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
N-Nitrosodiphenylamine	0.94	U	0.62	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Nitrobenzene	2.4	U	1.2	2.4	2.8	µg/L	1	6/21/2016 4:05 PM
Pentachlorophenol	0.94	UY	0.87	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Phenol	0.94	UQ	0.57	0.94	4.7	µg/L	1	6/21/2016 4:05 PM
Surr: 2,4,6-Tribromophenol	91.1			43-140		%Rec	1	6/21/2016 4:05 PM
Surr: 2-Fluorobiphenyl	69.6			44-119		%Rec	1	6/21/2016 4:05 PM
Surr: 2-Fluorophenol	34.8			19-119		%Rec	1	6/21/2016 4:05 PM
Surr: Nitrobenzene-d5	62.0			44-120		%Rec	1	6/21/2016 4:05 PM
Surr: Phenol-d5	21.3	Q		30-130		%Rec	1	6/21/2016 4:05 PM
Surr: Terphenyl-d14	81.7			50-134		%Rec	1	6/21/2016 4:05 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.034		0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
2-Methylnaphthalene	0.045		0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Naphthalene	0.043		0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Phenanthrene	0.025		0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:21 AM
Surr: 2-Fluorobiphenyl	55.1			53-106		%Rec	1	6/23/2016 2:21 AM
Surr: Nitrobenzene-d5	57.9			55-111		%Rec	1	6/23/2016 2:21 AM
Surr: Terphenyl-d14	91.4			58-132		%Rec	1	6/23/2016 2:21 AM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 12:22 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/27/2016 12:22 AM

RTI Laboratories - Analytical Report

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 10:05:00 AM
Project:	Camp Hero		
Lab ID:	1606529-002	**Matrix:**	Groundwater
Client Sample ID:	AST35-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 12:22 AM
2-Hexanone	1.0	UY Q	0.64	1.0	2.0	µg/L	1	6/27/2016 12:22 AM
Acetone	4.2	JY	0.56	0.60	10	µg/L	1	6/27/2016 12:22 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Bromoform	0.60	UY Q	0.25	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 12:22 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Chloromethane	1.0		0.37	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Ethylbenzene	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Methylene chloride	0.37	J	0.27	0.60	5.0	µg/L	1	6/27/2016 12:22 AM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 12:22 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 12:22 AM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/27/2016 12:22 AM
Surr: 4-Bromofluorobenzene	94.7			85-114		%Rec	1	6/27/2016 12:22 AM
Surr: Dibromofluoromethane	86.6			80-119		%Rec	1	6/27/2016 12:22 AM
Surr: Toluene-d8	88.0	Q		89-112		%Rec	1	6/27/2016 12:22 AM

RTI Laboratories - Analytical Report

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606529-003 **Matrix:** Groundwater
Client Sample ID: AST35-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.94	U	0.85	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
1,2-Dichlorobenzene	0.94	U	0.87	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
1,3-Dichlorobenzene	0.94	U	0.71	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
1,4-Dichlorobenzene	2.4	U	0.98	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
2,4,5-Trichlorophenol	2.4	U	1.0	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
2,4,6-Trichlorophenol	0.94	U	0.91	0.94	3.8	µg/L	1	6/21/2016 4:30 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
2,4-Dinitrophenol	9.4	UY	4.8	9.4	24	µg/L	1	6/21/2016 4:30 PM
2,4-Dinitrotoluene	0.94	U	0.57	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
2,6-Dinitrotoluene	0.94	U	0.80	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
2-Chloronaphthalene	0.94	U	0.83	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
2-Chlorophenol	0.94	U	0.82	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
2-Methylphenol (o-Cresol)	0.94	U	0.94	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
2-Nitroaniline	0.94	U	0.83	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
3,3´-Dichlorobenzidine	2.4	U	1.5	2.4	19	µg/L	1	6/21/2016 4:30 PM
3-Nitroaniline	0.94	U	0.79	0.94	9.4	µg/L	1	6/21/2016 4:30 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.4	µg/L	1	6/21/2016 4:30 PM
4,6-Dinitro-2-methylphenol	0.94	U	0.84	0.94	9.4	µg/L	1	6/21/2016 4:30 PM
4-Bromophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
4-Chloroaniline [p-Chloroaniline]	0.94	U	0.76	0.94	9.4	µg/L	1	6/21/2016 4:30 PM
4-Chlorophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.4	µg/L	1	6/21/2016 4:30 PM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/21/2016 4:30 PM
Benzoic acid	2.4	UY QZ	1.9	2.4	24	µg/L	1	6/21/2016 4:30 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/21/2016 4:30 PM
Bis(2-chloroethoxy) methane	2.4	U	0.99	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
Bis(2-chloroethyl) ether	2.4	U	0.97	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
Bis(2-chloroisopropyl)ether	2.4	UY Z	1.1	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
Bis(2-ethylhexyl) phthalate	0.94	U	0.66	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Butyl benzyl phthalate	2.4	U	0.97	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
Carbazole	1.6	J	0.57	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Di-n-butyl phthalate	0.94	U	0.55	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.7	µg/L	1	6/21/2016 4:30 PM
Dibenzofuran	0.94	U	0.71	0.94	3.8	µg/L	1	6/21/2016 4:30 PM
Diethyl phthalate	0.94	U	0.58	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Dimethyl phthalate	0.94	U	0.67	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Hexachlorobenzene	0.94	U	0.58	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Hexachlorobutadiene	0.94	U	0.81	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Hexachloroethane	0.94	U	0.69	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Isophorone	0.94	U	0.91	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.7	µg/L	1	6/21/2016 4:30 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606529-003 **Matrix:** Groundwater
Client Sample ID: AST35-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
N-Nitrosodimethylamine	0.94	UY Q	0.60	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
N-Nitrosodiphenylamine	0.94	U	0.62	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Nitrobenzene	2.4	U	1.2	2.4	2.8	µg/L	1	6/21/2016 4:30 PM
Pentachlorophenol	0.94	UY	0.87	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Phenol	0.94	UQ	0.57	0.94	4.7	µg/L	1	6/21/2016 4:30 PM
Surr: 2,4,6-Tribromophenol	61.5			43-140		%Rec	1	6/21/2016 4:30 PM
Surr: 2-Fluorobiphenyl	47.6			44-119		%Rec	1	6/21/2016 4:30 PM
Surr: 2-Fluorophenol	36.6			19-119		%Rec	1	6/21/2016 4:30 PM
Surr: Nitrobenzene-d5	45.2			44-120		%Rec	1	6/21/2016 4:30 PM
Surr: Phenol-d5	24.4	Q		30-130		%Rec	1	6/21/2016 4:30 PM
Surr: Terphenyl-d14	53.9			50-134		%Rec	1	6/21/2016 4:30 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	140		3.8	3.8	3.8	µg/L	200	6/25/2016 12:05 AM
2-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 2:50 AM
Acenaphthene	21		3.8	3.8	3.8	µg/L	200	6/25/2016 12:05 AM
Acenaphthylene	4.7		0.96	0.96	0.96	µg/L	50	6/24/2016 11:36 PM
Anthracene	12		3.8	3.8	3.8	µg/L	200	6/25/2016 12:05 AM
Benz(a)anthracene	1.1		0.96	0.96	0.96	µg/L	50	6/24/2016 11:36 PM
Benzo(a)pyrene	0.44		0.019	0.019	0.019	µg/L	1	6/23/2016 2:50 AM
Benzo(b)fluoranthene	0.78		0.019	0.019	0.019	µg/L	1	6/23/2016 2:50 AM
Benzo(g,h,i)perylene	0.17		0.019	0.019	0.019	µg/L	1	6/23/2016 2:50 AM
Benzo(k)fluoranthene	0.23		0.019	0.019	0.019	µg/L	1	6/23/2016 2:50 AM
Chrysene	0.72		0.019	0.019	0.019	µg/L	1	6/23/2016 2:50 AM
Dibenzo(a,h)anthracene	0.089		0.019	0.019	0.019	µg/L	1	6/23/2016 2:50 AM
Fluoranthene	3.1		0.96	0.96	0.96	µg/L	50	6/24/2016 11:36 PM
Fluorene	23		0.96	0.96	0.96	µg/L	50	6/24/2016 11:36 PM
Indeno(1,2,3-cd)pyrene	0.17		0.019	0.019	0.019	µg/L	1	6/23/2016 2:50 AM
Naphthalene	53		3.8	3.8	3.8	µg/L	200	6/25/2016 12:05 AM
Phenanthrene	56		3.8	3.8	3.8	µg/L	200	6/25/2016 12:05 AM
Pyrene	3.7		0.96	0.96	0.96	µg/L	50	6/24/2016 11:36 PM
Surr: 2-Fluorobiphenyl	468	JQ		53-106		%Rec	1	6/23/2016 2:50 AM
Surr: Nitrobenzene-d5	650	JQ		55-111		%Rec	1	6/23/2016 2:50 AM
Surr: Terphenyl-d14	70.6			58-132		%Rec	1	6/23/2016 2:50 AM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 6:12 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/27/2016 6:12 AM

RTI Laboratories - Analytical Report

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606529-003 **Matrix:** Groundwater
Client Sample ID: AST35-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 6:12 AM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/27/2016 6:12 AM
Acetone	3.8	JY	0.56	0.60	10	µg/L	1	6/27/2016 6:12 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Bromodichloromethane	0.60	UQ	0.33	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Bromoform	0.60	UYQ	0.25	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 6:12 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Chloromethane	0.68	JYBQ	0.37	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Ethylbenzene	2.8		0.43	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Methylene chloride	0.41	J	0.27	0.60	5.0	µg/L	1	6/27/2016 6:12 AM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.55	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 6:12 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 6:12 AM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/27/2016 6:12 AM
Surr: 4-Bromofluorobenzene	99.2			85-114		%Rec	1	6/27/2016 6:12 AM
Surr: Dibromofluoromethane	80.1			80-119		%Rec	1	6/27/2016 6:12 AM
Surr: Toluene-d8	87.3	Q		89-112		%Rec	1	6/27/2016 6:12 AM

RTI Laboratories - Analytical Report

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606529-004 **Matrix:** Groundwater
Client Sample ID: AST35-SB03-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.95	U	0.86	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
1,2-Dichlorobenzene	0.95	U	0.88	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
1,3-Dichlorobenzene	0.95	U	0.72	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
1,4-Dichlorobenzene	2.4	U	0.99	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
2,4,6-Trichlorophenol	0.95	U	0.91	0.95	3.8	µg/L	1	6/21/2016 4:54 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
2,4-Dinitrophenol	9.5	UY	4.8	9.5	24	µg/L	1	6/21/2016 4:54 PM
2,4-Dinitrotoluene	0.95	U	0.57	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
2,6-Dinitrotoluene	0.95	U	0.81	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
2-Chloronaphthalene	0.95	U	0.84	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
2-Chlorophenol	0.95	U	0.83	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
2-Methylphenol (o-Cresol)	0.95	U	0.95	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
2-Nitroaniline	0.95	U	0.84	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/21/2016 4:54 PM
3-Nitroaniline	0.95	U	0.79	0.95	9.5	µg/L	1	6/21/2016 4:54 PM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.7	4.8	9.5	µg/L	1	6/21/2016 4:54 PM
4,6-Dinitro-2-methylphenol	0.95	U	0.85	0.95	9.5	µg/L	1	6/21/2016 4:54 PM
4-Bromophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
4-Chloroaniline [p-Chloroaniline]	0.95	U	0.77	0.95	9.5	µg/L	1	6/21/2016 4:54 PM
4-Chlorophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.5	µg/L	1	6/21/2016 4:54 PM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/21/2016 4:54 PM
Benzoic acid	2.4	UY QZ	1.9	2.4	24	µg/L	1	6/21/2016 4:54 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/21/2016 4:54 PM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
Bis(2-chloroethyl) ether	2.4	U	0.98	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
Bis(2-chloroisopropyl)ether	2.4	UY Z	1.1	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
Bis(2-ethylhexyl) phthalate	0.95	U	0.67	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Butyl benzyl phthalate	2.4	U	0.98	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
Carbazole	1.8	J	0.58	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Di-n-butyl phthalate	0.95	U	0.55	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	6/21/2016 4:54 PM
Dibenzofuran	0.95	U	0.72	0.95	3.8	µg/L	1	6/21/2016 4:54 PM
Diethyl phthalate	0.95	U	0.59	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Dimethyl phthalate	0.95	U	0.68	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Hexachlorobenzene	0.95	U	0.58	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Hexachlorobutadiene	0.95	U	0.81	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Hexachloroethane	0.95	U	0.70	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.8	µg/L	1	6/21/2016 4:54 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606529-004 **Matrix:** Groundwater
Client Sample ID: AST35-SB03-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
N-Nitrosodimethylamine	0.95	UY Q	0.60	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
N-Nitrosodiphenylamine	0.95	U	0.63	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/21/2016 4:54 PM
Pentachlorophenol	0.95	UY	0.88	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Phenol	0.95	UQ	0.57	0.95	4.8	µg/L	1	6/21/2016 4:54 PM
Surr: 2,4,6-Tribromophenol	64.9			43-140		%Rec	1	6/21/2016 4:54 PM
Surr: 2-Fluorobiphenyl	52.0			44-119		%Rec	1	6/21/2016 4:54 PM
Surr: 2-Fluorophenol	33.3			19-119		%Rec	1	6/21/2016 4:54 PM
Surr: Nitrobenzene-d5	49.7			44-120		%Rec	1	6/21/2016 4:54 PM
Surr: Phenol-d5	20.8	Q		30-130		%Rec	1	6/21/2016 4:54 PM
Surr: Terphenyl-d14	56.5			50-134		%Rec	1	6/21/2016 4:54 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	48		1.1	1.1	1.1	µg/L	50	6/25/2016 12:33 AM
2-Methylnaphthalene	38		1.1	1.1	1.1	µg/L	50	6/25/2016 12:33 AM
Acenaphthene	3.2		1.1	1.1	1.1	µg/L	50	6/25/2016 12:33 AM
Acenaphthylene	0.40		0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Anthracene	0.44		0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Benz(a)anthracene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Benzo(a)pyrene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Benzo(b)fluoranthene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Benzo(g,h,i)perylene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Benzo(k)fluoranthene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Chrysene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Dibenzo(a,h)anthracene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Fluoranthene	0.062		0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Fluorene	2.6		1.1	1.1	1.1	µg/L	50	6/25/2016 12:33 AM
Indeno(1,2,3-cd)pyrene	0.023	U	0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Naphthalene	34		1.1	1.1	1.1	µg/L	50	6/25/2016 12:33 AM
Phenanthrene	5.0		1.1	1.1	1.1	µg/L	50	6/25/2016 12:33 AM
Pyrene	0.10		0.023	0.023	0.023	µg/L	1	6/23/2016 3:18 AM
Surr: 2-Fluorobiphenyl	55.4			53-106		%Rec	1	6/23/2016 3:18 AM
Surr: Nitrobenzene-d5	60.9			55-111		%Rec	1	6/23/2016 3:18 AM
Surr: Terphenyl-d14	69.3			58-132		%Rec	1	6/23/2016 3:18 AM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 6:17 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/27/2016 6:17 PM

RTI Laboratories - Analytical Report

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606529-004 **Matrix:** Groundwater
Client Sample ID: AST35-SB03-GW DUP

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 6:17 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/27/2016 6:17 PM
Acetone	3.3	J	0.56	0.60	10	µg/L	1	6/27/2016 6:17 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 6:17 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Ethylbenzene	7.2		0.43	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/27/2016 6:17 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 6:17 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 6:17 PM
Xylene (total)	2.5	J	1.3	1.8	3.0	µg/L	1	6/27/2016 6:17 PM
Surr: 4-Bromofluorobenzene	100			85-114		%Rec	1	6/27/2016 6:17 PM
Surr: Dibromofluoromethane	88.5			80-119		%Rec	1	6/27/2016 6:17 PM
Surr: Toluene-d8	94.0			89-112		%Rec	1	6/27/2016 6:17 PM

RTI Laboratories - Analytical Report

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 12:00:00 PM
Project: Camp Hero
Lab ID: 1606529-005 **Matrix:** Groundwater
Client Sample ID: AST35-SB04-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.97	U	0.88	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
1,2,4-Trichlorobenzene	0.95	UH	0.86	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
1,2-Dichlorobenzene	0.97	U	0.90	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
1,2-Dichlorobenzene	0.95	UH	0.88	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
1,3-Dichlorobenzene	0.97	U	0.73	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
1,3-Dichlorobenzene	0.95	UH	0.72	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
1,4-Dichlorobenzene	2.4	U	1.0	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
1,4-Dichlorobenzene	2.4	UH	0.99	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
2,4,5-Trichlorophenol	2.4	UH	1.1	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
2,4,6-Trichlorophenol	0.97	U	0.93	0.97	3.9	µg/L	1	6/21/2016 5:19 PM
2,4,6-Trichlorophenol	0.95	UH	0.91	0.95	3.8	µg/L	1	6/30/2016 6:46 PM
2,4-Dichlorophenol	2.4	U	1.4	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
2,4-Dichlorophenol	2.4	UH	1.3	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
2,4-Dimethyl phenol	2.4	U	2.2	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
2,4-Dimethyl phenol	2.4	UH	2.1	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
2,4-Dinitrophenol	9.7	UY	4.9	9.7	24	µg/L	1	6/21/2016 5:19 PM
2,4-Dinitrophenol	9.5	UH	4.8	9.5	24	µg/L	1	6/30/2016 6:46 PM
2,4-Dinitrotoluene	0.97	U	0.58	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
2,4-Dinitrotoluene	0.95	UH	0.57	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
2,6-Dinitrotoluene	0.97	U	0.83	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
2,6-Dinitrotoluene	0.95	UH	0.81	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
2-Chloronaphthalene	0.97	U	0.86	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
2-Chloronaphthalene	0.95	UH	0.84	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
2-Chlorophenol	0.97	U	0.85	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
2-Chlorophenol	0.95	UH	0.83	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
2-Methylphenol (o-Cresol)	0.97	U	0.97	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
2-Methylphenol (o-Cresol)	0.95	UH	0.95	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
2-Nitroaniline	0.97	U	0.85	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
2-Nitroaniline	0.95	UH	0.84	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
2-Nitrophenol	2.4	UH	1.2	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/21/2016 5:19 PM
3,3´-Dichlorobenzidine	2.4	UH	1.6	2.4	19	µg/L	1	6/30/2016 6:46 PM
3-Nitroaniline	0.97	U	0.81	0.97	9.7	µg/L	1	6/21/2016 5:19 PM
3-Nitroaniline	0.95	UH	0.79	0.95	9.5	µg/L	1	6/30/2016 6:46 PM
3/4-Methylphenol [m/p-Cresol]	4.9	U	1.8	4.9	9.7	µg/L	1	6/21/2016 5:19 PM
3/4-Methylphenol [m/p-Cresol]	4.8	UH	1.7	4.8	9.5	µg/L	1	6/30/2016 6:46 PM
4,6-Dinitro-2-methylphenol	0.97	U	0.86	0.97	9.7	µg/L	1	6/21/2016 5:19 PM
4,6-Dinitro-2-methylphenol	0.95	UH	0.85	0.95	9.5	µg/L	1	6/30/2016 6:46 PM
4-Bromophenyl phenyl ether	0.97	U	0.77	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
4-Bromophenyl phenyl ether	0.95	UH	0.75	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
4-Chloro-3-methylphenol	2.4	UH	1.2	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
4-Chloroaniline [p-Chloroaniline]	0.97	U	0.79	0.97	9.7	µg/L	1	6/21/2016 5:19 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 12:00:00 PM
Project: Camp Hero
Lab ID: 1606529-005 **Matrix:** Groundwater
Client Sample ID: AST35-SB04-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
4-Chloroaniline [p-Chloroaniline]	0.95	UH	0.77	0.95	9.5	µg/L	1	6/30/2016 6:46 PM
4-Chlorophenyl phenyl ether	0.97	U	0.77	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
4-Chlorophenyl phenyl ether	0.95	UH	0.75	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.7	µg/L	1	6/21/2016 5:19 PM
4-Nitroaniline	2.4	UH	1.1	2.4	9.5	µg/L	1	6/30/2016 6:46 PM
4-Nitrophenol	2.4	UQ	1.4	2.4	24	µg/L	1	6/21/2016 5:19 PM
4-Nitrophenol	2.4	UH	1.3	2.4	24	µg/L	1	6/30/2016 6:46 PM
Benzoic acid	2.4	UY QZ	2.0	2.4	24	µg/L	1	6/21/2016 5:19 PM
Benzoic acid	9.6	JY QH	1.9	2.4	24	µg/L	1	6/30/2016 6:46 PM
Benzyl alcohol	2.4	U	2.1	2.4	24	µg/L	1	6/21/2016 5:19 PM
Benzyl alcohol	2.4	UH	2.0	2.4	24	µg/L	1	6/30/2016 6:46 PM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
Bis(2-chloroethoxy) methane	2.4	UH	1.0	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
Bis(2-chloroethyl) ether	2.4	U	1.0	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
Bis(2-chloroethyl) ether	2.4	UH	0.98	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
Bis(2-chloroisopropyl)ether	2.4	UY Z	1.1	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
Bis(2-chloroisopropyl)ether	2.4	UY ZH	1.1	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
Bis(2-ethylhexyl) phthalate	0.97	U	0.68	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Bis(2-ethylhexyl) phthalate	0.95	UH	0.67	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Butyl benzyl phthalate	2.4	U	1.0	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
Butyl benzyl phthalate	2.4	UH	0.98	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
Carbazole	0.97	U	0.59	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Carbazole	0.95	UH	0.58	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Di-n-butyl phthalate	0.97	U	0.57	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Di-n-butyl phthalate	0.95	UH	0.55	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
Di-n-octyl phthalate	2.4	UH	1.1	2.4	4.8	µg/L	1	6/30/2016 6:46 PM
Dibenzofuran	0.97	U	0.73	0.97	3.9	µg/L	1	6/21/2016 5:19 PM
Dibenzofuran	0.95	UH	0.72	0.95	3.8	µg/L	1	6/30/2016 6:46 PM
Diethyl phthalate	0.97	U	0.60	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Diethyl phthalate	0.95	UH	0.59	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Dimethyl phthalate	0.97	U	0.69	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Dimethyl phthalate	0.95	UH	0.68	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Hexachlorobenzene	0.97	U	0.60	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Hexachlorobenzene	0.95	UH	0.58	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Hexachlorobutadiene	0.97	U	0.83	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Hexachlorobutadiene	0.95	UH	0.81	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Hexachloroethane	0.97	U	0.71	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Hexachloroethane	0.95	UH	0.70	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Isophorone	0.97	U	0.93	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Isophorone	0.95	UH	0.92	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.9	µg/L	1	6/21/2016 5:19 PM
N-Nitroso-di-n-propylamine	2.4	UH	1.1	2.4	4.8	µg/L	1	6/30/2016 6:46 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 12:00:00 PM
Project:	Camp Hero		
Lab ID:	1606529-005	**Matrix:**	Groundwater
Client Sample ID:	AST35-SB04-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
N-Nitrosodimethylamine	0.97	UYQ	0.61	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
N-Nitrosodimethylamine	0.95	UQH	0.60	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
N-Nitrosodiphenylamine	0.97	U	0.64	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
N-Nitrosodiphenylamine	0.95	UH	0.63	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/21/2016 5:19 PM
Nitrobenzene	2.4	UH	1.2	2.4	2.9	µg/L	1	6/30/2016 6:46 PM
Pentachlorophenol	0.97	UY	0.89	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Pentachlorophenol	0.95	UH	0.88	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Phenol	0.97	UQ	0.59	0.97	4.9	µg/L	1	6/21/2016 5:19 PM
Phenol	0.95	UQH	0.57	0.95	4.8	µg/L	1	6/30/2016 6:46 PM
Surr: 2,4,6-Tribromophenol	52.6			43-140		%Rec	1	6/21/2016 5:19 PM
Surr: 2,4,6-Tribromophenol	118	H		43-140		%Rec	1	6/30/2016 6:46 PM
Surr: 2-Fluorobiphenyl	43.7	Q		44-119		%Rec	1	6/21/2016 5:19 PM
Surr: 2-Fluorobiphenyl	68.9	H		44-119		%Rec	1	6/30/2016 6:46 PM
Surr: 2-Fluorophenol	30.4			19-119		%Rec	1	6/21/2016 5:19 PM
Surr: 2-Fluorophenol	38.3	H		19-119		%Rec	1	6/30/2016 6:46 PM
Surr: Nitrobenzene-d5	39.2	Q		44-120		%Rec	1	6/21/2016 5:19 PM
Surr: Nitrobenzene-d5	62.3	H		44-120		%Rec	1	6/30/2016 6:46 PM
Surr: Phenol-d5	20.9	Q		30-130		%Rec	1	6/21/2016 5:19 PM
Surr: Phenol-d5	27.0	QH		30-130		%Rec	1	6/30/2016 6:46 PM
Surr: Terphenyl-d14	50.8			50-134		%Rec	1	6/21/2016 5:19 PM
Surr: Terphenyl-d14	88.3	H		50-134		%Rec	1	6/30/2016 6:46 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.78		0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
2-Methylnaphthalene	0.35		0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Acenaphthene	0.073		0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Acenaphthylene	0.024		0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Fluorene	0.12		0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Naphthalene	0.24		0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Phenanthrene	0.17		0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 3:47 AM
Surr: 2-Fluorobiphenyl	68.1			53-106		%Rec	1	6/23/2016 3:47 AM
Surr: Nitrobenzene-d5	71.3			55-111		%Rec	1	6/23/2016 3:47 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 12:00:00 PM
Project:	Camp Hero		
Lab ID:	1606529-005	**Matrix:**	Groundwater
Client Sample ID:	AST35-SB04-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Terphenyl-d14	80.4			58-132		%Rec	1	6/23/2016 3:47 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 7:02 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/27/2016 7:02 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 7:02 AM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/27/2016 7:02 AM
Acetone	2.0	JY	0.56	0.60	10	µg/L	1	6/27/2016 7:02 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Bromodichloromethane	0.60	UQ	0.33	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Bromoform	0.60	UYQ	0.25	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 7:02 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Chloromethane	0.72	JYBQ	0.37	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Methylene chloride	0.40	J	0.27	0.60	5.0	µg/L	1	6/27/2016 7:02 AM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.55	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 7:02 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 7:02 AM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/27/2016 7:02 AM
Surr: 4-Bromofluorobenzene	93.7			85-114		%Rec	1	6/27/2016 7:02 AM

RTI Laboratories - Analytical Report

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 12:00:00 PM
Project:	Camp Hero		
Lab ID:	1606529-005	**Matrix:**	Groundwater
Client Sample ID:	AST35-SB04-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	81.1			80-119		%Rec	1	6/27/2016 7:02 AM
Surr: Toluene-d8	87.4	Q		89-112		%Rec	1	6/27/2016 7:02 AM

RTI Laboratories - DATES REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606529-001A	TB-GW-061416-02	6/14/2016 8:15 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/26/2016 6:57 PM	6/26/2016 6:57 PM
1606529-002A	AST35-SB02-GW	6/14/2016 10:05 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 12:22 AM	6/27/2016 12:22 AM
1606529-002B	AST35-SB02-GW	6/14/2016 10:05 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 4:05 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 2:21 AM
1606529-003A	AST35-SB03-GW	6/14/2016 10:55 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 6:12 AM	6/27/2016 6:12 AM
1606529-003B	AST35-SB03-GW	6/14/2016 10:55 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 4:30 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 2:50 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 11:36 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/25/2016 12:05 AM
1606529-004A	AST35-SB03-GW DUP	6/14/2016 10:55 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 6:37 AM	6/27/2016 6:37 AM
				SW_8260A-Volatile Organic Compounds		6/27/2016 6:17 PM	6/27/2016 6:17 PM
1606529-004B	AST35-SB03-GW DUP	6/14/2016 10:55 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 4:54 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 3:18 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/25/2016 12:33 AM
1606529-005A	AST35-SB04-GW	6/14/2016 12:00 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 7:02 AM	6/27/2016 7:02 AM
1606529-005B	AST35-SB04-GW	6/14/2016 12:00 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 5:19 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/22/2016 4:45 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 3:47 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 6:46 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	MB-40178	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	PBS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701925

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	13		16.50		80.9	46	115				
Surr: Nitrobenzene-d5	14		16.50		84.4	44	125				
Surr: Terphenyl-d14	16		16.50		95.3	58	133				

Sample ID:	LCS-40178	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	LCSS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701926

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		16.54		81.7	46	115				
Surr: Nitrobenzene-d5	14		16.54		84.1	44	125				
Surr: Terphenyl-d14	16		16.54		94.9	58	133				

Sample ID:	1606392-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701928

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	15		17.40		83.7	46	115				
Surr: Nitrobenzene-d5	17		17.40		94.9	44	125				
Surr: Terphenyl-d14	17		17.40		96.9	58	133				

Sample ID:	1606392-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701929

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		17.35		82.3	46	115		0	25	
Surr: Nitrobenzene-d5	16		17.35		92.5	44	125		0	25	
Surr: Terphenyl-d14	17		17.35		97.4	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86883**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685699**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	20	20									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitrophenol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	1.0	1.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Diethyl phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86883**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685699**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	1.0	1.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	40	125				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	50	110				Q
Surr: 2-Fluorophenol	7.4		25.00		29.8	20	110				
Surr: Nitrobenzene-d5	11		25.00		45.5	40	110				
Surr: Phenol-d5	4.8		25.00		19.3	20	130				Q
Surr: Terphenyl-d14	24		25.00		94.3	50	135				

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86883**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685700**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	20	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86883**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685700**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	37	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitrophenol	23	25	50.00	0	46.9	30	150				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	1.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	1.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	49	119				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	30	150				Y
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685700

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	26	5.0	20.00	0	128	38	138				Y
Phenol	6.4	5.0	20.00	0	31.8	30	150				
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	50	130				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685701

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	20	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	20	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	20	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	20	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	20	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	20	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	20	
2,4-Dinitrophenol	61	20	50.00	0	122	23	143	59.07	3.12	20	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	20	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	20	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	20	
2-Chlorophenol	14	5.0	20.00	0	67.8	37	117	11.51	16.4	20	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	20	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	20	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	20	J
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	20	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	20	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685701

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	20	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	20	
4-Nitrophenol	23	25	50.00	0	46.6	30	150	23.46	0.684	20	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	20	
Bis(2-chloroethyl) ether	12	1.0	20.00	0	58.2	43	118	10.45	10.8	20	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	20	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	20	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	20	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	20	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	20	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	20	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	20	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	20	
Hexachlorobenzene	11	1.0	20.00	0	55.8	53	125	11.59	3.78	20	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	20	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	20	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	20	
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	49	119	11.64	9.88	20	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	30	150	6.020	15.9	20	Y
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	20	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	20	
Pentachlorophenol	27	5.0	20.00	0	133	38	138	25.65	3.52	20	Y
Phenol	7.0	5.0	20.00	0	35.2	30	150	6.350	10.4	20	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	20	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	20	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	20	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	20	
Surr: Phenol-d5	8.1		25.00		32.4	50	130		0	20	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86884**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685740**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	1.0	1.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685740

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	1.0	1.0									U
Hexachlorobutadiene	1.0	1.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				J
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	30	130				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685741

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86884**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685741**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	1.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685741

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	1.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	1.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenol	6.4	5.0	20.00	0	31.8	50	130				Q
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	30	130				J
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685742

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86884**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685742**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	1.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Hexachlorobenzene	11	1.0	20.00	0	55.8	53	125	11.59	3.78	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685742

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachlorobutadiene	7.0	1.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenol	7.0	5.0	20.00	0	35.2	50	130	6.350	10.4	25	Q
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	30	130		0	25	J
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684993

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684993**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684993**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	33	122				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684994**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684994**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Benzoic acid	17	25	40.00	0	42.6	50	130				JQYZ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	5.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	5.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684994

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenol	6.4	5.0	20.00	0	31.8	34	121				Q
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	33	122				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684995

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	25	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684995**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Benzoic acid	32	25	40.00	0	80.1	50	130	17.03	61.2	25	RYZ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	5.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Hexachlorobenzene	11	5.0	20.00	0	55.8	53	125	11.59	3.78	25	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684995**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenol	7.0	5.0	20.00	0	35.2	34	121	6.350	10.4	25	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	33	122		0	25	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

Sample ID:	**MB-1-40190**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718224**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-1-40190**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718224**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-1-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	33	122				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-1-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718225

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-1-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718225**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Benzoic acid	17	25	40.00	0	42.6	50	130				JQYZ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	5.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	5.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-1-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718225

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenol	6.4	5.0	20.00	0	31.8	34	121				Q
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	33	122				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-1-40190	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718226

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	25	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-1-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718226**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Benzoic acid	32	25	40.00	0	80.1	50	130	17.03	61.2	25	RYZ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	5.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Hexachlorobenzene	11	5.0	20.00	0	55.8	53	125	11.59	3.78	25	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-1-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718226**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenol	7.0	5.0	20.00	0	35.2	34	121	6.350	10.4	25	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	33	122		0	25	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	MB-40213	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	PBW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									U
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.43		0.5000		85.2	53	106				
Surr: Nitrobenzene-d5	0.46		0.5000		91.2	55	111				
Surr: Terphenyl-d14	0.57		0.5000		113	58	132				

Sample ID:	LCS-40213	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	LCSW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698439

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.34	0.020	0.4000	0	84.8	41	115				
2-Methylnaphthalene	0.32	0.020	0.4000	0	80.7	39	114				
Acenaphthene	0.33	0.020	0.4000	0	83.5	48	114				
Acenaphthylene	0.32	0.020	0.4000	0	80.3	35	121				
Anthracene	0.35	0.020	0.4000	0	86.5	53	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	LCS-40213	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	LCSW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698439

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.46	0.020	0.4000	0	116	59	120				
Benzo(a)pyrene	0.34	0.020	0.4000	0	85.8	53	120				
Benzo(b)fluoranthene	0.46	0.020	0.4000	0	115	53	126				
Benzo(g,h,i)perylene	0.38	0.020	0.4000	0	96.0	44	128				
Benzo(k)fluoranthene	0.31	0.020	0.4000	0	78.3	54	125				
Chrysene	0.32	0.020	0.4000	0	78.8	57	120				
Dibenzo(a,h)anthracene	0.40	0.020	0.4000	0	99.8	44	131				
Fluoranthene	0.35	0.020	0.4000	0	86.6	58	120				
Fluorene	0.35	0.020	0.4000	0	87.5	50	118				
Indeno(1,2,3-cd)pyrene	0.40	0.020	0.4000	0	99.7	48	130				
Naphthalene	0.30	0.020	0.4000	0	75.7	43	114				
Phenanthrene	0.39	0.020	0.4000	0	98.0	53	115				
Pyrene	0.40	0.020	0.4000	0	100	53	124				
Surr: 2-Fluorobiphenyl	0.44		0.5000		88.5	53	106				
Surr: Nitrobenzene-d5	0.52		0.5000		103	55	111				
Surr: Terphenyl-d14	0.61		0.5000		121	58	132				

Sample ID:	LCSD-40213	Samp Type:	LCSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	LCSS02	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698440

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.35	0.020	0.4000	0	87.0	41	115	0.3390	2.57	20	
2-Methylnaphthalene	0.32	0.020	0.4000	0	81.2	39	114	0.3227	0.584	20	
Acenaphthene	0.34	0.020	0.4000	0	85.5	48	114	0.3340	2.40	20	
Acenaphthylene	0.33	0.020	0.4000	0	82.0	35	121	0.3210	2.16	20	
Anthracene	0.33	0.020	0.4000	0	83.6	53	119	0.3461	3.48	20	
Benz(a)anthracene	0.44	0.020	0.4000	0	110	59	120	0.4634	4.94	20	
Benzo(a)pyrene	0.33	0.020	0.4000	0	83.4	53	120	0.3434	2.91	20	
Benzo(b)fluoranthene	0.39	0.020	0.4000	0	96.4	53	126	0.4604	17.7	20	
Benzo(g,h,i)perylene	0.37	0.020	0.4000	0	93.6	44	128	0.3840	2.56	20	
Benzo(k)fluoranthene	0.36	0.020	0.4000	0	91.2	54	125	0.3130	15.2	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	**LCSD-40213**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**87461**
Client ID:	**LCSS02**	Batch ID:	**40213**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/22/2016**	SeqNo:	**1698440**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.34	0.020	0.4000	0	84.3	57	120	0.3151	6.81	20	
Dibenzo(a,h)anthracene	0.39	0.020	0.4000	0	97.3	44	131	0.3992	2.56	20	
Fluoranthene	0.35	0.020	0.4000	0	86.7	58	120	0.3464	0.0895	20	
Fluorene	0.36	0.020	0.4000	0	89.9	50	118	0.3499	2.74	20	
Indeno(1,2,3-cd)pyrene	0.39	0.020	0.4000	0	97.5	48	130	0.3988	2.22	20	
Naphthalene	0.31	0.020	0.4000	0	77.2	43	114	0.3028	1.98	20	
Phenanthrene	0.40	0.020	0.4000	0	101	53	115	0.3921	2.64	20	
Pyrene	0.40	0.020	0.4000	0	101	53	124	0.4010	0.790	20	
Surr: 2-Fluorobiphenyl	0.45		0.5000		90.5	53	106		0	20	
Surr: Nitrobenzene-d5	0.52		0.5000		104	55	111		0	20	
Surr: Terphenyl-d14	0.61		0.5000		122	58	132		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**MB-40262**	Samp Type:	**MBLK**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87384**
Client ID:	**PBW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1696498**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,6-Trichlorophenol	5.0	5.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	20	20									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitrophenol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Diethyl phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696498

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	5.0	5.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	40	125				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	50	110				
Surr: 2-Fluorophenol	11		25.00		44.0	20	110				
Surr: Nitrobenzene-d5	18		25.00		70.5	40	110				
Surr: Phenol-d5	7.7		25.00		30.7	20	130				
Surr: Terphenyl-d14	27		25.00		107	50	135				

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696499

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,2-Dichlorobenzene	9.8	5.0	20.00	0	49.1	32	111				
1,3-Dichlorobenzene	8.7	5.0	20.00	0	43.4	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	20	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696499

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	37	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitrophenol	26	25	50.00	0	52.0	30	150				
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	1.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	1.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	70.6	49	119				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	30	150				
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	3.0	20.00	0	62.3	45	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696499

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	21	5.0	20.00	0	103	38	138				
Phenol	6.2	5.0	20.00	0	31.2	30	150				
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	50	130				Q
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696502

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.1	4.9	19.42	0	36.4	29	116				
1,2-Dichlorobenzene	7.1	4.9	19.42	0	36.7	32	111				
1,3-Dichlorobenzene	6.0	4.9	19.42	0	31.2	28	110				
1,4-Dichlorobenzene	6.3	4.9	19.42	0	32.3	29	112				
2,4,6-Trichlorophenol	14	3.9	19.42	0	71.9	50	125				
2,4-Dichlorophenol	12	4.9	19.42	0	63.1	47	121				
2,4-Dimethyl phenol	12	4.9	19.42	0	60.4	31	124				
2,4-Dinitrophenol	48	19	48.54	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.9	19.42	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.9	19.42	0	77.1	57	124				
2-Chloronaphthalene	9.7	4.9	19.42	0	49.7	40	116				
2-Chlorophenol	9.8	4.9	19.42	0	50.5	37	117				
2-Methylphenol (o-Cresol)	11	4.9	19.42	0	55.1	30	117				
2-Nitrophenol	11	4.9	19.42	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.42	0	84.5	27	129				J
3/4-Methylphenol [m/p-Cresol]	19	9.7	38.83	0	48.9	25	120				
4,6-Dinitro-2-methylphenol	19	9.7	19.42	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.7	4.9	19.42	0	49.8	55	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696502

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	14	4.9	19.42	0	72.8	52	119				
4-Chlorophenyl phenyl ether	11	4.9	19.42	0	55.8	53	121				
4-Nitrophenol	23	24	48.54	0	47.6	30	150				J
Bis(2-chloroethoxy) methane	11	4.9	19.42	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.2	0.97	19.42	0	47.5	43	118				
Bis(2-chloroisopropyl)ether	7.9	4.9	19.42	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.9	19.42	0	68.4	55	135				
Butyl benzyl phthalate	13	4.9	19.42	0	64.8	53	134				
Carbazole	19	4.9	19.42	0	97.2	60	122				
Di-n-butyl phthalate	13	4.9	19.42	0	65.0	59	127				
Di-n-octyl phthalate	14	4.9	19.42	0	72.2	51	140				
Diethyl phthalate	15	4.9	19.42	0	79.7	56	125				
Dimethyl phthalate	15	4.9	19.42	0	74.8	45	127				
Hexachlorobenzene	8.9	0.97	19.42	0	45.8	53	125				Q
Hexachlorobutadiene	5.0	4.9	19.42	0	25.9	22	124				
Hexachloroethane	5.6	4.9	19.42	0	28.9	21	115				
Isophorone	11	4.9	19.42	0	56.7	42	124				
N-Nitroso-di-n-propylamine	11	4.9	19.42	0	55.8	49	119				
N-Nitrosodimethylamine	4.9	4.9	19.42	0	25.4	30	150				Q
N-Nitrosodiphenylamine	13	4.9	19.42	0	65.0	51	123				
Nitrobenzene	9.4	2.9	19.42	0	48.5	45	121				
Pentachlorophenol	19	4.9	19.42	0	96.4	38	138				
Phenol	5.0	4.9	19.42	0	25.6	30	150				Q
Surr: 2,4,6-Tribromophenol	25		24.27		103	43	140				
Surr: 2-Fluorobiphenyl	15		24.27		62.3	44	119				
Surr: 2-Fluorophenol	8.1		24.27		33.3	19	119				
Surr: Nitrobenzene-d5	13		24.27		54.4	44	120				
Surr: Phenol-d5	6.6		24.27		27.3	50	130				Q
Surr: Terphenyl-d14	21		24.27		86.8	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**1606422-008BMSD**	Samp Type:	**MSD**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87384**
Client ID:	**ZZZZZZ**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1696503**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.4	4.8	19.23	0	43.4	29	116	7.068	16.7	25	
1,2-Dichlorobenzene	8.6	4.8	19.23	0	45.0	32	111	7.117	19.4	25	
1,3-Dichlorobenzene	7.8	4.8	19.23	0	40.4	28	110	6.049	24.9	25	
1,4-Dichlorobenzene	8.0	4.8	19.23	0	41.6	29	112	6.262	24.3	25	
2,4,6-Trichlorophenol	16	3.8	19.23	0	80.6	50	125	13.95	10.5	25	
2,4-Dichlorophenol	14	4.8	19.23	0	72.3	47	121	12.25	12.6	25	
2,4-Dimethyl phenol	13	4.8	19.23	0	68.2	31	124	11.73	11.2	25	
2,4-Dinitrophenol	48	19	48.08	0	99.7	23	143	48.23	0.584	25	
2,4-Dinitrotoluene	18	4.8	19.23	0	91.6	57	128	17.43	1.07	25	
2,6-Dinitrotoluene	16	4.8	19.23	0	81.4	57	124	14.96	4.53	25	
2-Chloronaphthalene	11	4.8	19.23	0	59.0	40	116	9.650	16.1	25	
2-Chlorophenol	11	4.8	19.23	0	59.1	37	117	9.806	14.7	25	
2-Methylphenol (o-Cresol)	12	4.8	19.23	0	64.1	30	117	10.70	14.1	25	
2-Nitrophenol	13	4.8	19.23	0	68.2	47	123	11.20	15.8	25	
3,3´-Dichlorobenzidine	17	19	19.23	0	87.9	27	129	16.41	2.98	25	J
3/4-Methylphenol [m/p-Cresol]	22	9.6	38.46	0	57.2	25	120	18.98	14.8	25	
4,6-Dinitro-2-methylphenol	19	9.6	19.23	0	97.0	44	137	18.68	0.138	25	
4-Bromophenyl phenyl ether	10	4.8	19.23	0	54.2	55	124	9.660	7.69	25	Q
4-Chloro-3-methylphenol	16	4.8	19.23	0	80.8	52	119	14.13	9.58	25	
4-Chlorophenyl phenyl ether	12	4.8	19.23	0	62.4	53	121	10.83	10.4	25	
4-Nitrophenol	22	24	48.08	0	46.1	30	150	23.09	4.00	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.23	0	66.9	48	120	11.41	12.0	25	
Bis(2-chloroethyl) ether	11	0.96	19.23	0	56.6	43	118	9.214	16.5	25	
Bis(2-chloroisopropyl)ether	9.4	4.8	19.23	0	48.7	37	130	7.874	17.3	25	YZ
Bis(2-ethylhexyl) phthalate	12	4.8	19.23	0	61.6	55	135	13.27	11.4	25	
Butyl benzyl phthalate	12	4.8	19.23	0	61.4	53	134	12.57	6.20	25	
Carbazole	18	4.8	19.23	0	94.4	60	122	18.86	3.84	25	
Di-n-butyl phthalate	12	4.8	19.23	0	63.8	59	127	12.63	2.91	25	
Di-n-octyl phthalate	12	4.8	19.23	0	63.8	51	140	14.03	13.3	25	
Diethyl phthalate	16	4.8	19.23	0	81.0	56	125	15.48	0.652	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696503

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	15	4.8	19.23	0	77.4	45	127	14.51	2.58	25	
Hexachlorobenzene	8.8	0.96	19.23	0	45.6	53	125	8.893	1.29	25	Q
Hexachlorobutadiene	6.2	4.8	19.23	0	32.1	22	124	5.029	20.4	25	
Hexachloroethane	7.0	4.8	19.23	0	36.6	21	115	5.612	22.4	25	
Isophorone	12	4.8	19.23	0	64.2	42	124	11.01	11.4	25	
N-Nitroso-di-n-propylamine	12	4.8	19.23	0	64.8	49	119	10.84	14.0	25	
N-Nitrosodimethylamine	6.7	4.8	19.23	0	34.8	30	150	4.942	30.1	25	R
N-Nitrosodiphenylamine	14	4.8	19.23	0	71.3	51	123	12.63	8.20	25	
Nitrobenzene	11	2.9	19.23	0	56.3	45	121	9.408	14.0	25	
Pentachlorophenol	18	4.8	19.23	0	94.2	38	138	18.72	3.33	25	
Phenol	5.6	4.8	19.23	0	29.2	30	150	4.971	12.3	25	Q
Surr: 2,4,6-Tribromophenol	26		24.04		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		24.04		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.8		24.04		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		24.04		64.4	44	120		0	25	
Surr: Phenol-d5	7.6		24.04		31.6	50	130		0	25	Q
Surr: Terphenyl-d14	20		24.04		85.0	50	134		0	25	

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697973

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697973

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UY
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**MB-40262**	Samp Type:	**MBLK**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87440**
Client ID:	**PBW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697973**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	5.0	5.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	43	140				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	44	119				
Surr: 2-Fluorophenol	11		25.00		44.0	19	119				
Surr: Nitrobenzene-d5	18		25.00		70.5	44	120				
Surr: Phenol-d5	7.7		25.00		30.7	30	130				J
Surr: Terphenyl-d14	27		25.00		107	50	134				

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87440**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697974**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	92.7	53	123				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	25	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	38	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87440**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697974**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitroaniline	19	5.0	20.00	0	96.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3-Nitroaniline	20	10	20.00	0	101	41	128				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chloroaniline [p-Chloroaniline]	16	10	20.00	0	82.0	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitroaniline	23	10	20.00	0	113	50	130				
4-Nitrophenol	26	25	50.00	0	52.0	50	130				
Benzyl alcohol	10	25	20.00	0	52.5	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	5.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Dibenzofuran	16	4.0	20.00	0	78.5	53	118				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	5.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	70.6	50	130				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	50	130				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697974

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	5.0	20.00	0	62.3	45	121				
Pentachlorophenol	21	5.0	20.00	0	103	35	138				
Phenol	6.2	5.0	20.00	0	31.2	50	130				Q
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	30	130				J
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.9	4.8	19.05	0	36.4	29	116				
1,4-Dichlorobenzene	6.1	4.8	19.05	0	32.3	29	112				
2,4,5-Trichlorophenol	15	4.8	19.05	0	78.4	53	123				
2,4,6-Trichlorophenol	14	3.8	19.05	0	71.8	50	125				
2,4-Dichlorophenol	12	4.8	19.05	0	63.1	47	121				
2,4-Dimethyl phenol	12	4.8	19.05	0	60.4	31	124				
2,4-Dinitrophenol	47	24	47.62	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.8	19.05	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.8	19.05	0	77.0	57	124				
2-Chloronaphthalene	9.5	4.8	19.05	0	49.7	40	116				
2-Chlorophenol	9.6	4.8	19.05	0	50.5	38	117				
2-Methylphenol (o-Cresol)	10	4.8	19.05	0	55.1	30	117				
2-Nitroaniline	15	4.8	19.05	0	80.7	55	127				
2-Nitrophenol	11	4.8	19.05	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.05	0	84.5	27	129				J
3-Nitroaniline	16	9.5	19.05	0	86.0	41	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
3/4-Methylphenol [m/p-Cresol]	19	9.5	38.10	0	48.9	25	120				
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.5	4.8	19.05	0	49.8	55	124				Q
4-Chloro-3-methylphenol	14	4.8	19.05	0	72.8	52	119				
4-Chloroaniline [p-Chloroaniline]	14	9.5	19.05	0	72.0	33	117				
4-Chlorophenyl phenyl ether	11	4.8	19.05	0	55.8	53	121				
4-Nitroaniline	19	9.5	19.05	0	98.7	50	130				
4-Nitrophenol	23	24	47.62	0	47.6	50	130				JQ
Benzyl alcohol	8.3	24	19.05	0	43.6	31	112				J
Bis(2-chloroethoxy) methane	11	4.8	19.05	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.0	4.8	19.05	0	47.5	43	118				
Bis(2-chloroisopropyl)ether	7.7	4.8	19.05	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.8	19.05	0	68.4	55	135				
Butyl benzyl phthalate	12	4.8	19.05	0	64.8	53	134				
Carbazole	19	4.8	19.05	0	97.2	60	122				
Di-n-butyl phthalate	12	4.8	19.05	0	65.0	59	127				
Di-n-octyl phthalate	14	4.8	19.05	0	72.3	51	140				
Dibenzofuran	11	3.8	19.05	0	59.3	53	118				
Diethyl phthalate	15	4.8	19.05	0	79.7	56	125				
Dimethyl phthalate	14	4.8	19.05	0	74.8	45	127				
Hexachlorobenzene	8.7	4.8	19.05	0	45.8	53	125				Q
Hexachlorobutadiene	4.9	4.8	19.05	0	25.9	22	124				
Hexachloroethane	5.5	4.8	19.05	0	28.9	21	115				
Isophorone	11	4.8	19.05	0	56.7	42	124				
N-Nitroso-di-n-propylamine	11	4.8	19.05	0	55.8	50	130				
N-Nitrosodimethylamine	4.8	4.8	19.05	0	25.4	50	130				Q
N-Nitrosodiphenylamine	12	4.8	19.05	0	65.0	51	123				
Nitrobenzene	9.2	4.8	19.05	0	48.5	45	121				
Pentachlorophenol	18	4.8	19.05	0	96.4	35	138				
Phenol	4.9	4.8	19.05	0	25.6	50	130				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	25		23.81		103	43	140				
Surr: 2-Fluorobiphenyl	15		23.81		62.3	44	119				
Surr: 2-Fluorophenol	7.9		23.81		33.3	19	119				
Surr: Nitrobenzene-d5	13		23.81		54.4	44	120				
Surr: Phenol-d5	6.5		23.81		27.3	30	130				JQ
Surr: Terphenyl-d14	21		23.81		86.8	50	134				

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.3	4.8	19.05	0	43.5	29	116	6.933	17.7	25	
1,4-Dichlorobenzene	7.9	4.8	19.05	0	41.6	29	112	6.143	25.2	25	R
2,4,5-Trichlorophenol	16	4.8	19.05	0	84.0	53	123	14.93	6.90	25	
2,4,6-Trichlorophenol	15	3.8	19.05	0	80.6	50	125	13.69	11.5	25	
2,4-Dichlorophenol	14	4.8	19.05	0	72.3	47	121	12.02	13.5	25	
2,4-Dimethyl phenol	13	4.8	19.05	0	68.2	31	124	11.50	12.1	25	
2,4-Dinitrophenol	47	24	47.62	0	99.7	23	143	47.31	0.382	25	
2,4-Dinitrotoluene	17	4.8	19.05	0	91.6	57	128	17.10	2.04	25	
2,6-Dinitrotoluene	16	4.8	19.05	0	81.4	57	124	14.68	5.49	25	
2-Chloronaphthalene	11	4.8	19.05	0	59.0	40	116	9.467	17.0	25	
2-Chlorophenol	11	4.8	19.05	0	59.1	38	117	9.619	15.7	25	
2-Methylphenol (o-Cresol)	12	4.8	19.05	0	64.1	30	117	10.50	15.1	25	
2-Nitroaniline	17	4.8	19.05	0	88.4	55	127	15.37	9.16	25	
2-Nitrophenol	13	4.8	19.05	0	68.2	47	123	10.99	16.8	25	
3,3´-Dichlorobenzidine	17	19	19.05	0	87.9	27	129	16.10	3.94	25	J
3-Nitroaniline	19	9.5	19.05	0	98.6	41	128	16.37	13.7	25	
3/4-Methylphenol [m/p-Cresol]	22	9.5	38.10	0	57.2	25	120	18.62	15.7	25	
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	97.0	44	137	18.32	0.828	25	
4-Bromophenyl phenyl ether	10	4.8	19.05	0	54.2	55	124	9.476	8.65	25	Q
4-Chloro-3-methylphenol	15	4.8	19.05	0	80.8	52	119	13.86	10.5	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloroaniline [p-Chloroaniline]	16	9.5	19.05	0	81.6	33	117	13.72	12.4	25	
4-Chlorophenyl phenyl ether	12	4.8	19.05	0	62.4	53	121	10.62	11.3	25	
4-Nitroaniline	19	9.5	19.05	0	99.6	50	130	18.80	0.858	25	
4-Nitrophenol	22	24	47.62	0	46.1	50	130	22.65	3.03	25	JQ
Benzyl alcohol	9.9	24	19.05	0	52.2	31	112	8.305	18.0	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.05	0	66.9	48	120	11.19	13.0	25	
Bis(2-chloroethyl) ether	11	4.8	19.05	0	56.6	43	118	9.038	17.5	25	
Bis(2-chloroisopropyl)ether	9.3	4.8	19.05	0	48.7	37	130	7.724	18.3	25	YZ
Bis(2-ethylhexyl) phthalate	12	4.8	19.05	0	61.6	55	135	13.02	10.4	25	
Butyl benzyl phthalate	12	4.8	19.05	0	61.4	53	134	12.33	5.23	25	
Carbazole	18	4.8	19.05	0	94.4	60	122	18.50	2.87	25	
Di-n-butyl phthalate	12	4.8	19.05	0	63.8	59	127	12.39	1.94	25	
Di-n-octyl phthalate	12	4.8	19.05	0	63.8	51	140	13.76	12.3	25	
Dibenzofuran	13	3.8	19.05	0	66.4	53	118	11.30	11.2	25	
Diethyl phthalate	15	4.8	19.05	0	81.0	56	125	15.18	1.62	25	
Dimethyl phthalate	15	4.8	19.05	0	77.4	45	127	14.24	3.55	25	
Hexachlorobenzene	8.7	4.8	19.05	0	45.7	53	125	8.724	0.328	25	Q
Hexachlorobutadiene	6.1	4.8	19.05	0	32.1	22	124	4.933	21.4	25	
Hexachloroethane	7.0	4.8	19.05	0	36.6	21	115	5.505	23.4	25	
Isophorone	12	4.8	19.05	0	64.2	42	124	10.80	12.4	25	
N-Nitroso-di-n-propylamine	12	4.8	19.05	0	64.9	50	130	10.64	14.9	25	
N-Nitrosodimethylamine	6.6	4.8	19.05	0	34.8	50	130	4.848	31.0	25	RQ
N-Nitrosodiphenylamine	14	4.8	19.05	0	71.3	51	123	12.39	9.17	25	
Nitrobenzene	11	4.8	19.05	0	56.3	45	121	9.229	15.0	25	
Pentachlorophenol	18	4.8	19.05	0	94.2	35	138	18.36	2.36	25	
Phenol	5.6	4.8	19.05	0	29.2	50	130	4.876	13.3	25	Q
Surr: 2,4,6-Tribromophenol	25		23.81		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		23.81		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.7		23.81		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		23.81		64.4	44	120		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Phenol-d5	7.5		23.81		31.6	30	130		0	25	J
Surr: Terphenyl-d14	20		23.81		85.0	50	134		0	25	

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**MB-40262**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**PBW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697665**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UY
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	43	140				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	44	119				
Surr: 2-Fluorophenol	11		25.00		44.0	19	119				
Surr: Nitrobenzene-d5	18		25.00		70.5	44	120				
Surr: Phenol-d5	7.7		25.00		30.7	33	122				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Terphenyl-d14	27		25.00		107	50	134				

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697666

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,2-Dichlorobenzene	9.8	5.0	20.00	0	49.1	32	111				
1,3-Dichlorobenzene	8.7	5.0	20.00	0	43.4	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	92.7	53	123				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	25	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	38	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				
2-Nitroaniline	19	5.0	20.00	0	96.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3-Nitroaniline	20	10	20.00	0	101	41	128				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chloroaniline [p-Chloroaniline]	16	10	20.00	0	82.0	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitroaniline	23	10	20.00	0	113	50	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697666**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitrophenol	26	25	50.00	0	52.0	50	130				
Benzoic acid	20	25	40.00	0	48.8	50	130				JQY
Benzyl alcohol	10	25	20.00	0	52.5	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	5.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Dibenzofuran	16	4.0	20.00	0	78.5	53	118				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	5.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	70.6	50	130				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	50	130				Q
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	3.0	20.00	0	62.3	45	121				
Pentachlorophenol	21	5.0	20.00	0	103	35	138				
Phenol	6.2	5.0	20.00	0	31.2	34	121				Q
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	33	122				
Surr: Terphenyl-d14	26		25.00		105	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**1606422-008BMS-2**	Samp Type:	**MS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**ZZZZZZ**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697669**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.9	4.8	19.05	0	36.4	29	116				
1,2-Dichlorobenzene	7.0	4.8	19.05	0	36.6	32	111				
1,3-Dichlorobenzene	5.9	4.8	19.05	0	31.2	28	110				
1,4-Dichlorobenzene	6.1	4.8	19.05	0	32.3	29	112				
2,4,5-Trichlorophenol	15	4.8	19.05	0	78.4	53	123				
2,4,6-Trichlorophenol	14	3.8	19.05	0	71.8	50	125				
2,4-Dichlorophenol	12	4.8	19.05	0	63.1	47	121				
2,4-Dimethyl phenol	12	4.8	19.05	0	60.4	31	124				
2,4-Dinitrophenol	47	24	47.62	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.8	19.05	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.8	19.05	0	77.0	57	124				
2-Chloronaphthalene	9.5	4.8	19.05	0	49.7	40	116				
2-Chlorophenol	9.6	4.8	19.05	0	50.5	38	117				
2-Methylphenol (o-Cresol)	10	4.8	19.05	0	55.1	30	117				
2-Nitroaniline	15	4.8	19.05	0	80.7	55	127				
2-Nitrophenol	11	4.8	19.05	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.05	0	84.5	27	129				J
3-Nitroaniline	16	9.5	19.05	0	86.0	41	128				
3/4-Methylphenol [m/p-Cresol]	19	9.5	38.10	0	48.9	25	120				
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.5	4.8	19.05	0	49.8	55	124				Q
4-Chloro-3-methylphenol	14	4.8	19.05	0	72.8	52	119				
4-Chloroaniline [p-Chloroaniline]	14	9.5	19.05	0	72.0	33	117				
4-Chlorophenyl phenyl ether	11	4.8	19.05	0	55.8	53	121				
4-Nitroaniline	19	9.5	19.05	0	98.7	50	130				
4-Nitrophenol	23	24	47.62	0	47.6	50	130				JQ
Benzoic acid	20	24	38.10	0	52.0	50	130				JY
Benzyl alcohol	8.3	24	19.05	0	43.6	31	112				J
Bis(2-chloroethoxy) methane	11	4.8	19.05	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.0	4.8	19.05	0	47.5	43	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMS-2	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697669

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	7.7	4.8	19.05	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.8	19.05	0	68.4	55	135				
Butyl benzyl phthalate	12	4.8	19.05	0	64.8	53	134				
Carbazole	19	4.8	19.05	0	97.2	60	122				
Di-n-butyl phthalate	12	4.8	19.05	0	65.0	59	127				
Di-n-octyl phthalate	14	4.8	19.05	0	72.3	51	140				
Dibenzofuran	11	3.8	19.05	0	59.3	53	118				
Diethyl phthalate	15	4.8	19.05	0	79.7	56	125				
Dimethyl phthalate	14	4.8	19.05	0	74.8	45	127				
Hexachlorobenzene	8.7	4.8	19.05	0	45.8	53	125				Q
Hexachlorobutadiene	4.9	4.8	19.05	0	25.9	22	124				
Hexachloroethane	5.5	4.8	19.05	0	28.9	21	115				
Isophorone	11	4.8	19.05	0	56.7	42	124				
N-Nitroso-di-n-propylamine	11	4.8	19.05	0	55.8	50	130				
N-Nitrosodimethylamine	4.8	4.8	19.05	0	25.4	50	130				Q
N-Nitrosodiphenylamine	12	4.8	19.05	0	65.0	51	123				
Nitrobenzene	9.2	2.9	19.05	0	48.5	45	121				
Pentachlorophenol	18	4.8	19.05	0	96.4	35	138				
Phenol	4.9	4.8	19.05	0	25.6	34	121				Q
Surr: 2,4,6-Tribromophenol	25		23.81		103	43	140				
Surr: 2-Fluorobiphenyl	15		23.81		62.3	44	119				
Surr: 2-Fluorophenol	7.9		23.81		33.3	19	119				
Surr: Nitrobenzene-d5	13		23.81		54.4	44	120				
Surr: Phenol-d5	6.5		23.81		27.3	33	122				Q
Surr: Terphenyl-d14	21		23.81		86.8	50	134				

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.3	4.8	19.05	0	43.5	29	116	7.951	4.00	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	8.6	4.8	19.05	0	45.0	32	111	7.544	12.6	25	
1,3-Dichlorobenzene	7.7	4.8	19.05	0	40.4	28	110	6.777	12.7	25	
1,4-Dichlorobenzene	7.9	4.8	19.05	0	41.6	29	112	6.670	17.1	25	
2,4,5-Trichlorophenol	16	4.8	19.05	0	84.0	53	123	16.17	1.03	25	
2,4,6-Trichlorophenol	15	3.8	19.05	0	80.6	50	125	16.45	6.88	25	
2,4-Dichlorophenol	14	4.8	19.05	0	72.3	47	121	14.20	3.16	25	
2,4-Dimethyl phenol	13	4.8	19.05	0	68.2	31	124	12.62	2.88	25	
2,4-Dinitrophenol	47	24	47.62	0	99.7	23	143	56.35	17.1	25	
2,4-Dinitrotoluene	17	4.8	19.05	0	91.6	57	128	18.40	5.30	25	
2,6-Dinitrotoluene	16	4.8	19.05	0	81.4	57	124	15.63	0.811	25	
2-Chloronaphthalene	11	4.8	19.05	0	59.0	40	116	9.583	15.8	25	
2-Chlorophenol	11	4.8	19.05	0	59.1	38	117	10.36	8.31	25	
2-Methylphenol (o-Cresol)	12	4.8	19.05	0	64.1	30	117	10.98	10.6	25	
2-Nitroaniline	17	4.8	19.05	0	88.4	55	127	15.97	5.34	25	
2-Nitrophenol	13	4.8	19.05	0	68.2	47	123	13.42	3.16	25	
3,3´-Dichlorobenzidine	17	19	19.05	0	87.9	27	129	17.29	3.22	25	J
3-Nitroaniline	19	9.5	19.05	0	98.6	41	128	16.43	13.3	25	
3/4-Methylphenol [m/p-Cresol]	22	9.5	38.10	0	57.2	25	120	20.35	6.88	25	
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	97.0	44	137	23.24	22.9	25	
4-Bromophenyl phenyl ether	10	4.8	19.05	0	54.2	55	124	10.63	2.84	25	Q
4-Chloro-3-methylphenol	15	4.8	19.05	0	80.8	52	119	16.60	7.51	25	
4-Chloroaniline [p-Chloroaniline]	16	9.5	19.05	0	81.6	33	117	15.73	1.19	25	
4-Chlorophenyl phenyl ether	12	4.8	19.05	0	62.4	53	121	12.09	1.60	25	
4-Nitroaniline	19	9.5	19.05	0	99.6	50	130	16.95	11.2	25	
4-Nitrophenol	22	24	47.62	0	46.1	50	130	20.71	5.92	25	JQ
Benzoic acid	16	24	38.10	0	41.1	50	130	28.77	59.1	25	JRQY
Benzyl alcohol	9.9	24	19.05	0	52.2	31	112	10.97	9.83	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.05	0	66.9	48	120	11.17	13.1	25	
Bis(2-chloroethyl) ether	11	4.8	19.05	0	56.6	43	118	9.058	17.3	25	
Bis(2-chloroisopropyl)ether	9.3	4.8	19.05	0	48.7	37	130	8.990	3.13	25	YZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	12	4.8	19.05	0	61.6	55	135	14.85	23.5	25	
Butyl benzyl phthalate	12	4.8	19.05	0	61.4	53	134	15.10	25.3	25	R
Carbazole	18	4.8	19.05	0	94.4	60	122	16.12	10.9	25	
Di-n-butyl phthalate	12	4.8	19.05	0	63.8	59	127	14.29	16.2	25	
Di-n-octyl phthalate	12	4.8	19.05	0	63.8	51	140	14.93	20.4	25	
Dibenzofuran	13	3.8	19.05	0	66.4	53	118	11.95	5.58	25	
Diethyl phthalate	15	4.8	19.05	0	81.0	56	125	16.39	6.03	25	
Dimethyl phthalate	15	4.8	19.05	0	77.4	45	127	15.30	3.65	25	
Hexachlorobenzene	8.7	4.8	19.05	0	45.7	53	125	9.544	9.30	25	Q
Hexachlorobutadiene	6.1	4.8	19.05	0	32.1	22	124	5.913	3.35	25	
Hexachloroethane	7.0	4.8	19.05	0	36.6	21	115	5.485	23.7	25	
Isophorone	12	4.8	19.05	0	64.2	42	124	11.50	6.10	25	
N-Nitroso-di-n-propylamine	12	4.8	19.05	0	64.9	50	130	11.21	9.66	25	
N-Nitrosodimethylamine	6.6	4.8	19.05	0	34.8	50	130	5.534	18.0	25	Q
N-Nitrosodiphenylamine	14	4.8	19.05	0	71.3	51	123	13.36	1.65	25	
Nitrobenzene	11	2.9	19.05	0	56.3	45	121	10.01	6.89	25	
Pentachlorophenol	18	4.8	19.05	0	94.2	35	138	19.35	7.60	25	
Phenol	5.6	4.8	19.05	0	29.2	34	121	4.456	22.2	25	Q
Surr: 2,4,6-Tribromophenol	25		23.81		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		23.81		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.7		23.81		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		23.81		64.4	44	120		0	25	
Surr: Phenol-d5	7.5		23.81		31.6	33	122		0	25	Q
Surr: Terphenyl-d14	20		23.81		85.0	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86938

Sample ID: **VOA11B LCS 06261** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/26/2016** RunNo: **86938**

Client ID: **LCSW** Batch ID: **R86938** TestNo: **SW8260B** Analysis Date: **6/26/2016** SeqNo: **1686706**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.8	1.0	10.00	0	88.5	78	124				
1,1,1-Trichloroethane	8.3	1.0	10.00	0	82.9	74	131				
1,1,2,2-Tetrachloroethane	9.6	1.0	10.00	0	96.0	71	121				
1,1,2-Trichloroethane	9.2	1.0	10.00	0	91.7	80	119				
1,1-Dichloroethane	9.3	2.0	10.00	0	93.2	77	125				
1,1-Dichloroethene	9.0	1.0	10.00	0	90.1	71	131				
1,2,3-Trichloropropane	9.1	1.0	10.00	0	91.3	73	122				
1,2-Dibromo-3-chloropropane	7.9	5.0	10.00	0	78.6	62	128				Y
1,2-Dibromoethane	9.0	1.0	10.00	0	90.2	77	121				
1,2-Dichloroethane	8.8	1.0	10.00	0	87.8	73	128				
1,2-Dichloropropane	9.1	1.0	10.00	0	91.3	78	122				
2-Butanone [MEK]	7.9	10	10.00	0	79.1	56	143				J
2-Hexanone	5.8	2.0	10.00	0	57.5	57	139				Y
Acetone	8.9	10	10.00	0	88.9	39	160				JY
Benzene	9.3	1.0	10.00	0	93.0	79	120				
Bromodichloromethane	8.7	1.0	10.00	0	86.7	79	125				
Bromoform	6.3	1.0	10.00	0	63.1	66	130				QY
Carbon disulfide	10	1.0	10.00	0	102	64	133				
Carbon tetrachloride	9.1	1.0	10.00	0	90.7	72	136				
Chlorobenzene	9.1	1.0	10.00	0	91.0	82	118				
Chlorodibromomethane	6.6	1.0	10.00	0	66.5	74	126				Q
Chloroethane	10	2.0	10.00	0	101	60	138				
Chloroform	9.0	1.0	10.00	0	90.2	79	124				
Chloromethane	11	1.0	10.00	0	110	50	139				
cis-1,2-Dichloroethene	9.3	1.0	10.00	0	92.6	78	123				
cis-1,3-Dichloropropene	6.8	1.0	10.00	0	67.7	75	124				Q
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	105	32	152				
Ethylbenzene	8.8	1.0	10.00	0	87.9	79	121				
Methylene chloride	11	5.0	10.00	0	106	74	124				
Styrene	7.9	1.0	10.00	0	78.8	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86938

Sample ID: **VOA11B LCS 06261** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/26/2016** RunNo: **86938**

Client ID: **LCSW** Batch ID: **R86938** TestNo: **SW8260B** Analysis Date: **6/26/2016** SeqNo: **1686706**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	8.9	1.0	10.00	0	88.8	74	129				
Toluene	8.9	1.0	10.00	0	89.1	80	121				
trans-1,2-Dichloroethene	9.7	1.0	10.00	0	96.7	75	124				
trans-1,3-Dichloropropene	8.6	1.0	10.00	0	86.4	73	127				
Trichloroethene	8.9	1.0	10.00	0	88.9	79	123				
Trichlorofluoromethane [Freon-11]	8.8	1.0	10.00	0	88.4	65	141				
Vinyl acetate	8.3	5.0	10.00	0	82.6	54	146				
Vinyl chloride	11	1.0	10.00	0	106	58	137				
Xylene (total)	25	3.0	30.00	0	83.7	79	121				
Surr: 4-Bromofluorobenzene	58		60.00		96.7	85	114				
Surr: Dibromofluoromethane	57		60.00		95.0	80	119				
Surr: Toluene-d8	56		60.00		93.0	89	112				

Sample ID: **VOA11B LCSD 0626** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/26/2016** RunNo: **86938**

Client ID: **LCSS02** Batch ID: **R86938** TestNo: **SW8260B** Analysis Date: **6/26/2016** SeqNo: **1686707**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.1	1.0	10.00	0	81.1	78	124	8.850	8.73	25	
1,1,1-Trichloroethane	7.4	1.0	10.00	0	74.4	74	131	8.290	10.8	25	
1,1,2,2-Tetrachloroethane	9.2	1.0	10.00	0	91.9	71	121	9.600	4.36	25	
1,1,2-Trichloroethane	9.0	1.0	10.00	0	89.6	80	119	9.170	2.32	25	
1,1-Dichloroethane	8.4	2.0	10.00	0	83.7	77	125	9.320	10.7	25	
1,1-Dichloroethene	7.7	1.0	10.00	0	76.8	71	131	9.010	15.9	25	
1,2,3-Trichloropropane	8.8	1.0	10.00	0	87.6	73	122	9.130	4.14	25	
1,2-Dibromo-3-chloropropane	6.4	5.0	10.00	0	63.8	62	128	7.860	20.8	25	Y
1,2-Dibromoethane	8.9	1.0	10.00	0	88.6	77	121	9.020	1.79	25	
1,2-Dichloroethane	8.4	1.0	10.00	0	84.0	73	128	8.780	4.42	25	
1,2-Dichloropropane	8.7	1.0	10.00	0	87.2	78	122	9.130	4.59	25	
2-Butanone [MEK]	7.9	10	10.00	0	78.7	56	143	7.910	0.507	25	J
2-Hexanone	5.6	2.0	10.00	0	55.6	57	139	5.750	3.36	25	QY
Acetone	8.3	10	10.00	0	83.2	39	160	8.890	6.62	25	JY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86938

Sample ID: **VOA11B LCSD 0626** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/26/2016** RunNo: **86938**

Client ID: **LCSS02** Batch ID: **R86938** TestNo: **SW8260B** Analysis Date: **6/26/2016** SeqNo: **1686707**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.5	1.0	10.00	0	85.3	79	120	9.300	8.64	25	
Bromodichloromethane	8.2	1.0	10.00	0	82.1	79	125	8.670	5.45	25	
Bromoform	6.2	1.0	10.00	0	61.9	66	130	6.310	1.92	25	QY
Carbon disulfide	8.6	1.0	10.00	0	86.4	64	133	10.20	16.6	25	
Carbon tetrachloride	8.0	1.0	10.00	0	79.7	72	136	9.070	12.9	25	
Chlorobenzene	8.5	1.0	10.00	0	85.0	82	118	9.100	6.82	25	
Chlorodibromomethane	6.5	1.0	10.00	0	64.8	74	126	6.650	2.59	25	Q
Chloroethane	9.2	2.0	10.00	0	92.5	60	138	10.10	8.79	25	
Chloroform	8.3	1.0	10.00	0	82.9	79	124	9.020	8.43	25	
Chloromethane	10	1.0	10.00	0	99.7	50	139	11.05	10.3	25	
cis-1,2-Dichloroethene	8.4	1.0	10.00	0	84.0	78	123	9.260	9.74	25	
cis-1,3-Dichloropropene	6.4	1.0	10.00	0	64.0	75	124	6.770	5.62	25	Q
Dichlorodifluoromethane [Freon-12]	9.0	1.0	10.00	0	90.0	32	152	10.46	15.0	25	
Ethylbenzene	7.8	1.0	10.00	0	78.1	79	121	8.790	11.8	25	Q
Methylene chloride	9.8	5.0	10.00	0	98.4	74	124	10.57	7.15	25	
Styrene	7.1	1.0	10.00	0	71.1	78	123	7.880	10.3	25	Q
Tetrachloroethene	8.0	1.0	10.00	0	80.0	74	129	8.880	10.4	25	
Toluene	8.1	1.0	10.00	0	81.3	80	121	8.910	9.15	25	
trans-1,2-Dichloroethene	8.7	1.0	10.00	0	87.0	75	124	9.670	10.6	25	
trans-1,3-Dichloropropene	8.1	1.0	10.00	0	81.3	73	127	8.640	6.08	25	
Trichloroethene	8.1	1.0	10.00	0	80.8	79	123	8.890	9.55	25	
Trichlorofluoromethane [Freon-11]	8.7	1.0	10.00	0	86.9	65	141	8.840	1.71	25	
Vinyl acetate	8.0	5.0	10.00	0	80.5	54	146	8.260	2.58	0	
Vinyl chloride	9.2	1.0	10.00	0	91.6	58	137	10.65	15.0	25	
Xylene (total)	23	3.0	30.00	0	75.3	79	121	25.11	10.6	25	Q
Surr: 4-Bromofluorobenzene	57		60.00		94.6	85	114		0	25	
Surr: Dibromofluoromethane	55		60.00		92.2	80	119		0	25	
Surr: Toluene-d8	55		60.00		91.4	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86938**

Sample ID:	**VOA11B MBLK 0626**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/26/2016**	RunNo:	**86938**
Client ID:	**PBW**	Batch ID:	**R86938**	TestNo:	**SW8260B**			Analysis Date:	**6/26/2016**	SeqNo:	**1686711**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									UY
Acetone	1.9	10									JY
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									UY
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	0.43	1.0									J
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	0.66	5.0									J
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86938**

Sample ID:	**VOA11B MBLK 0626**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/26/2016**	RunNo:	**86938**
Client ID:	**PBW**	Batch ID:	**R86938**	TestNo:	**SW8260B**			Analysis Date:	**6/26/2016**	SeqNo:	**1686711**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	44		50.00		88.3	85	114				
Surr: Dibromofluoromethane	50		50.00		100	80	119				
Surr: Toluene-d8	44		50.00		87.2	89	112				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID:	VOA11B LCS2 0626	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86945
Client ID:	LCSW	Batch ID:	R86945	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1686847

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.0	1.0	10.00	0	79.9	78	124				
1,1,1-Trichloroethane	7.6	1.0	10.00	0	76.5	74	131				
1,1,2,2-Tetrachloroethane	8.8	1.0	10.00	0	88.3	71	121				
1,1,2-Trichloroethane	9.0	1.0	10.00	0	90.5	80	119				
1,1-Dichloroethane	8.6	2.0	10.00	0	86.2	77	125				
1,1-Dichloroethene	8.4	1.0	10.00	0	83.8	71	131				
1,2,3-Trichloropropane	7.5	1.0	10.00	0	75.4	73	122				
1,2-Dibromo-3-chloropropane	7.3	5.0	10.00	0	73.1	62	128				
1,2-Dibromoethane	9.6	1.0	10.00	0	95.5	77	121				
1,2-Dichloroethane	8.1	1.0	10.00	0	80.7	73	128				
1,2-Dichloropropane	8.7	1.0	10.00	0	87.3	78	122				
2-Butanone [MEK]	8.6	10	10.00	0	86.2	56	143				J
2-Hexanone	6.6	2.0	10.00	0	66.5	57	139				Y
Acetone	9.9	10	10.00	0	99.1	39	160				JY
Benzene	9.1	1.0	10.00	0	91.2	79	120				
Bromodichloromethane	7.9	1.0	10.00	0	78.8	79	125				Q
Bromoform	5.8	1.0	10.00	0	58.4	66	130				QY
Carbon disulfide	8.8	1.0	10.00	0	88.0	64	133				
Carbon tetrachloride	7.9	1.0	10.00	0	79.3	72	136				
Chlorobenzene	9.0	1.0	10.00	0	89.8	82	118				
Chlorodibromomethane	6.5	1.0	10.00	0	65.2	74	126				Q
Chloroethane	8.8	2.0	10.00	0	88.0	60	138				
Chloroform	8.4	1.0	10.00	0	84.4	79	124				
Chloromethane	15	1.0	10.00	0	151	50	139				QBY
cis-1,2-Dichloroethene	8.6	1.0	10.00	0	85.5	78	123				
cis-1,3-Dichloropropene	6.8	1.0	10.00	0	67.8	75	124				Q
Dichlorodifluoromethane [Freon-12]	9.6	1.0	10.00	0	96.2	32	152				
Ethylbenzene	8.7	1.0	10.00	0	86.6	79	121				
Methylene chloride	9.8	5.0	10.00	0	98.1	74	124				
Styrene	8.0	1.0	10.00	0	79.8	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID: **VOA11B LCS2 0626** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSW** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686847**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	11	1.0	10.00	0	110	74	129				
Toluene	9.0	1.0	10.00	0	89.5	80	121				
trans-1,2-Dichloroethene	9.0	1.0	10.00	0	89.8	75	124				
trans-1,3-Dichloropropene	8.2	1.0	10.00	0	82.3	73	127				
Trichloroethene	9.3	1.0	10.00	0	92.7	79	123				
Trichlorofluoromethane [Freon-11]	6.6	1.0	10.00	0	66.3	65	141				Y
Vinyl acetate	6.0	5.0	10.00	0	60.5	54	146				
Vinyl chloride	9.1	1.0	10.00	0	90.9	58	137				
Xylene (total)	25	3.0	30.00	0	82.7	79	121				
Surr: 4-Bromofluorobenzene	57		60.00		94.4	85	114				
Surr: Dibromofluoromethane	53		60.00		89.0	80	119				
Surr: Toluene-d8	55		60.00		92.0	89	112				

Sample ID: **VOA11B LCSD2 062** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSS02** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686848**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	7.3	1.0	10.00	0	73.1	78	124	7.990	8.89	25	Q
1,1,1-Trichloroethane	7.5	1.0	10.00	0	74.6	74	131	7.650	2.51	25	
1,1,2,2-Tetrachloroethane	8.6	1.0	10.00	0	85.9	71	121	8.830	2.76	25	
1,1,2-Trichloroethane	9.0	1.0	10.00	0	89.7	80	119	9.050	0.888	25	
1,1-Dichloroethane	8.4	2.0	10.00	0	83.5	77	125	8.620	3.18	25	
1,1-Dichloroethene	7.7	1.0	10.00	0	77.3	71	131	8.380	8.07	25	
1,2,3-Trichloropropane	8.4	1.0	10.00	0	84.0	73	122	7.540	10.8	25	
1,2-Dibromo-3-chloropropane	6.6	5.0	10.00	0	65.6	62	128	7.310	10.8	25	
1,2-Dibromoethane	8.8	1.0	10.00	0	88.5	77	121	9.550	7.61	25	
1,2-Dichloroethane	7.8	1.0	10.00	0	78.3	73	128	8.070	3.02	25	
1,2-Dichloropropane	8.4	1.0	10.00	0	84.1	78	122	8.730	3.73	25	
2-Butanone [MEK]	8.4	10	10.00	0	84.2	56	143	8.620	2.35	25	J
2-Hexanone	6.6	2.0	10.00	0	66.3	57	139	6.650	0.301	25	Y
Acetone	9.4	10	10.00	0	93.8	39	160	9.910	5.50	25	JY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID: **VOA11B LCSD2 062** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSS02** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686848**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.6	1.0	10.00	0	86.1	79	120	9.120	5.75	25	
Bromodichloromethane	7.7	1.0	10.00	0	77.2	79	125	7.880	2.05	25	Q
Bromoform	5.5	1.0	10.00	0	55.1	66	130	5.840	5.81	25	QY
Carbon disulfide	7.7	1.0	10.00	0	77.1	64	133	8.800	13.2	25	
Carbon tetrachloride	7.5	1.0	10.00	0	75.1	72	136	7.930	5.44	25	
Chlorobenzene	8.3	1.0	10.00	0	83.2	82	118	8.980	7.63	25	
Chlorodibromomethane	6.2	1.0	10.00	0	62.5	74	126	6.520	4.23	25	Q
Chloroethane	8.4	2.0	10.00	0	83.5	60	138	8.800	5.25	25	
Chloroform	8.2	1.0	10.00	0	81.8	79	124	8.440	3.13	25	
Chloromethane	14	1.0	10.00	0	142	50	139	15.06	6.02	25	QBY
cis-1,2-Dichloroethene	8.0	1.0	10.00	0	80.3	78	123	8.550	6.27	25	
cis-1,3-Dichloropropene	6.4	1.0	10.00	0	64.5	75	124	6.780	4.99	25	Q
Dichlorodifluoromethane [Freon-12]	8.7	1.0	10.00	0	87.4	32	152	9.620	9.59	25	
Ethylbenzene	8.2	1.0	10.00	0	82.3	79	121	8.660	5.09	25	
Methylene chloride	9.4	5.0	10.00	0	93.7	74	124	9.810	4.59	25	
Styrene	7.5	1.0	10.00	0	74.9	78	123	7.980	6.33	25	Q
Tetrachloroethene	11	1.0	10.00	0	107	74	129	11.04	3.50	25	
Toluene	8.4	1.0	10.00	0	83.6	80	121	8.950	6.82	25	
trans-1,2-Dichloroethene	8.3	1.0	10.00	0	83.3	75	124	8.980	7.51	25	
trans-1,3-Dichloropropene	7.8	1.0	10.00	0	78.0	73	127	8.230	5.36	25	
Trichloroethene	8.5	1.0	10.00	0	85.3	79	123	9.270	8.31	25	
Trichlorofluoromethane [Freon-11]	6.3	1.0	10.00	0	62.6	65	141	6.630	5.74	25	QY
Vinyl acetate	5.8	5.0	10.00	0	57.9	54	146	6.050	4.39	0	
Vinyl chloride	8.5	1.0	10.00	0	85.0	58	137	9.090	6.71	25	
Xylene (total)	23	3.0	30.00	0	78.2	79	121	24.82	5.68	25	Q
Surr: 4-Bromofluorobenzene	56		60.00		94.1	85	114		0	25	
Surr: Dibromofluoromethane	52		60.00		87.2	80	119		0	25	
Surr: Toluene-d8	54		60.00		90.8	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86945**

Sample ID:	**VOA11B MBLK2 062**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86945**
Client ID:	**PBW**	Batch ID:	**R86945**	TestNo:	**SW8260B**			Analysis Date:	**6/27/2016**	SeqNo:	**1686850**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									U
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									UY
Acetone	10	10									UY
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									UY
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	0.73	1.0									JTY
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	0.56	5.0									J
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86945**

Sample ID:	**VOA11B MBLK2062**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86945**
Client ID:	**PBW**	Batch ID:	**R86945**	TestNo:	**SW8260B**			Analysis Date:	**6/27/2016**	SeqNo:	**1686850**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									UY
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	46		50.00		91.9	85	114				
Surr: Dibromofluoromethane	41		50.00		81.6	80	119				
Surr: Toluene-d8	44		50.00		87.2	89	112				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID: **VOA10 LCS 062716** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86965**

Client ID: **LCSW** Batch ID: **R86965** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1687436**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10	1.0	10.00	0	102	78	124				
1,1,1-Trichloroethane	9.5	1.0	10.00	0	94.8	74	131				
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	101	71	121				
1,1,2-Trichloroethane	11	1.0	10.00	0	106	80	119				
1,1-Dichloroethane	9.6	2.0	10.00	0	95.9	77	125				
1,1-Dichloroethene	9.4	1.0	10.00	0	94.5	71	131				
1,2,3-Trichloropropane	9.7	1.0	10.00	0	97.4	73	122				
1,2-Dibromo-3-chloropropane	7.4	5.0	10.00	0	74.1	62	128				Y
1,2-Dibromoethane	9.9	1.0	10.00	0	98.7	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	106	73	128				
1,2-Dichloropropane	11	1.0	10.00	0	113	78	122				
2-Butanone [MEK]	11	10	10.00	0	110	56	143				
2-Hexanone	10	2.0	10.00	0	99.9	57	139				
Acetone	16	10	10.00	0	156	39	160				
Benzene	9.4	1.0	10.00	0	94.4	79	120				
Bromodichloromethane	11	1.0	10.00	0	114	79	125				
Bromoform	7.7	1.0	10.00	0	76.9	66	130				
Carbon disulfide	9.2	1.0	10.00	0	92.1	64	133				
Carbon tetrachloride	10	1.0	10.00	0	101	72	136				
Chlorobenzene	10	1.0	10.00	0	101	82	118				
Chlorodibromomethane	11	1.0	10.00	0	109	74	126				Y
Chloroethane	11	2.0	10.00	0	106	60	138				
Chloroform	9.6	1.0	10.00	0	95.5	79	124				
Chloromethane	10	1.0	10.00	0	104	50	139				
cis-1,2-Dichloroethene	9.6	1.0	10.00	0	95.8	78	123				
cis-1,3-Dichloropropene	10	1.0	10.00	0	101	75	124				
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	100	32	152				
Ethylbenzene	9.8	1.0	10.00	0	97.6	79	121				
Methylene chloride	12	5.0	10.00	0	117	74	124				
Styrene	10	1.0	10.00	0	105	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID: **VOA10 LCS 062716** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86965**

Client ID: **LCSW** Batch ID: **R86965** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1687436**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	10	1.0	10.00	0	101	74	129				
Toluene	11	1.0	10.00	0	111	80	121				
trans-1,2-Dichloroethene	10	1.0	10.00	0	101	75	124				
trans-1,3-Dichloropropene	10	1.0	10.00	0	103	73	127				
Trichloroethene	10	1.0	10.00	0	103	79	123				
Trichlorofluoromethane [Freon-11]	10	1.0	10.00	0	102	65	141				
Vinyl acetate	11	5.0	10.00	0	106	54	146				
Vinyl chloride	11	1.0	10.00	0	110	58	137				
Xylene (total)	30	3.0	30.00	0	102	79	121				
Surr: 4-Bromofluorobenzene	60		60.00		99.9	85	114				
Surr: Dibromofluoromethane	52		60.00		87.3	80	119				
Surr: Toluene-d8	60		60.00		99.6	89	112				

Sample ID: **VOA10 LCSD 06271** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86965**

Client ID: **LCSS02** Batch ID: **R86965** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1687437**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10	1.0	10.00	0	99.5	78	124	10.21	2.58	25	
1,1,1-Trichloroethane	8.8	1.0	10.00	0	88.1	74	131	9.480	7.33	25	
1,1,2,2-Tetrachloroethane	9.2	1.0	10.00	0	92.4	71	121	10.08	8.70	25	
1,1,2-Trichloroethane	10	1.0	10.00	0	99.6	80	119	10.61	6.32	25	
1,1-Dichloroethane	9.3	2.0	10.00	0	93.0	77	125	9.590	3.07	25	
1,1-Dichloroethene	9.0	1.0	10.00	0	89.6	71	131	9.450	5.32	25	
1,2,3-Trichloropropane	9.0	1.0	10.00	0	90.2	73	122	9.740	7.68	25	
1,2-Dibromo-3-chloropropane	8.0	5.0	10.00	0	80.3	62	128	7.410	8.03	25	Y
1,2-Dibromoethane	9.6	1.0	10.00	0	96.0	77	121	9.870	2.77	25	
1,2-Dichloroethane	10	1.0	10.00	0	102	73	128	10.64	4.62	25	
1,2-Dichloropropane	10	1.0	10.00	0	104	78	122	11.28	8.02	25	
2-Butanone [MEK]	10	10	10.00	0	101	56	143	10.99	8.05	25	
2-Hexanone	10	2.0	10.00	0	101	57	139	9.990	0.698	25	
Acetone	14	10	10.00	0	142	39	160	15.57	9.41	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID:	VOA10 LCSD 06271	Samp Type:	LCSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86965
Client ID:	LCSS02	Batch ID:	R86965	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1687437

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.9	1.0	10.00	0	89.0	79	120	9.440	5.89	25	
Bromodichloromethane	11	1.0	10.00	0	106	79	125	11.35	7.12	25	
Bromoform	6.9	1.0	10.00	0	68.6	66	130	7.690	11.4	25	
Carbon disulfide	8.2	1.0	10.00	0	81.9	64	133	9.210	11.7	25	
Carbon tetrachloride	8.9	1.0	10.00	0	89.3	72	136	10.11	12.4	25	
Chlorobenzene	9.1	1.0	10.00	0	90.8	82	118	10.06	10.2	25	
Chlorodibromomethane	10	1.0	10.00	0	103	74	126	10.94	6.22	25	Y
Chloroethane	10	2.0	10.00	0	101	60	138	10.62	5.52	25	
Chloroform	8.9	1.0	10.00	0	89.4	79	124	9.550	6.60	25	
Chloromethane	9.9	1.0	10.00	0	98.8	50	139	10.45	5.61	25	
cis-1,2-Dichloroethene	9.1	1.0	10.00	0	90.6	78	123	9.580	5.58	25	
cis-1,3-Dichloropropene	9.8	1.0	10.00	0	98.3	75	124	10.14	3.10	25	
Dichlorodifluoromethane [Freon-12]	9.4	1.0	10.00	0	94.4	32	152	10.04	6.16	25	
Ethylbenzene	9.2	1.0	10.00	0	92.2	79	121	9.760	5.69	25	
Methylene chloride	11	5.0	10.00	0	114	74	124	11.73	2.50	25	
Styrene	9.5	1.0	10.00	0	95.1	78	123	10.48	9.70	25	
Tetrachloroethene	9.8	1.0	10.00	0	98.1	74	129	10.08	2.71	25	
Toluene	11	1.0	10.00	0	109	80	121	11.13	2.09	25	
trans-1,2-Dichloroethene	9.6	1.0	10.00	0	95.8	75	124	10.12	5.48	25	
trans-1,3-Dichloropropene	9.9	1.0	10.00	0	99.4	73	127	10.27	3.27	25	
Trichloroethene	9.6	1.0	10.00	0	96.1	79	123	10.28	6.74	25	
Trichlorofluoromethane [Freon-11]	10	1.0	10.00	0	102	65	141	10.22	0.392	25	
Vinyl acetate	9.8	5.0	10.00	0	98.4	54	146	10.64	7.81	0	
Vinyl chloride	11	1.0	10.00	0	106	58	137	11.00	3.52	25	
Xylene (total)	28	3.0	30.00	0	94.3	79	121	30.49	7.52	25	
Surr: 4-Bromofluorobenzene	59		60.00		98.7	85	114		0	25	
Surr: Dibromofluoromethane	51		60.00		85.6	80	119		0	25	
Surr: Toluene-d8	60		60.00		99.7	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86965**

Sample ID:	**VOA10 MBLK 06271**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86965**
Client ID:	**PBW**	Batch ID:	**R86965**	TestNo:	**SW8260B**			Analysis Date:	**6/27/2016**	SeqNo:	**1687440**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	10	10									U
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									UY
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	5.0	5.0									U
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID:	VOA10 MBLK 06271	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86965
Client ID:	PBW	Batch ID:	R86965	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1687440

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	49		50.00		97.0	85	114				
Surr: Dibromofluoromethane	42		50.00		84.0	80	119				
Surr: Toluene-d8	45		50.00		89.8	89	112				

RTI Laboratories - Definitions and Acronyms

WO#: 1606529

Date Reported: 8/26/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606529

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	060516-01
Address	Point of Contact / Phone No.	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / State / Zip Code	Site Contact / Phone No.	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	Field QC	-	-	TB	1	TB-GW-060416-02	6/14/16	0815	WQ	3	040	3										
2	AST35-SB02	-	-	N	1	AST35-SB02-GW		1005	WG	7		3			4							
3	AST35-SB03	-	-	N	1	AST35-SB03-GW		1055	WG	3		3										
4	AST35-SB03	-	-	FD	1	AST35-SB03-GWDUP		1055	WG	3		3										
5	AST35-SB04	-	-	N	1	AST35-SB04-GW		1200	WG	7		3			4							

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/15/16	Time 1200	1. Received By / Company	Transfer to FedEx	Date 6/15/16	Time 1200
2. Relinquished By / Company		Date	Time	2. Received By / Company	Kathy Mahan/KTA	Date 6/16/16	Time 0950
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. 810302025718

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

ODNSON_1

Chain of Custody

1606529

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061516-02
Batch May16

Database Information / Other Sample Information

	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
3	AST35-SB03	-	-	N	1	AST35-SB03-GW	06/14/16	1055	WG	4	041				4							
4	AST35-SB03	-	-	FD	1	AST35-SB03-GWDUP	↓	1055	WG	4	041				4							

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
[signature] @AECOM	6/15/16	1200	Transfer to FedEx	06/15/16	1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			Kathy Griffin / STL	6/16/16	0825
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 810502025707

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

DP-43

CUSTODY SEALS

Date 6/15/16

Signature

Cooler # 040

Cooler ID GDISODINSON-1

CoC ID - 060516-01

tracking: 810302025218

Cooler Temp Blank 4.4°C

6/15/16

Cooler # 041
Cooler ID: DR-43
CoC ID 06151602
track # 810302025707
Cooler Temp Blk: 0.8°C

CUSTODY SEALS
Date 10/15/16
Signature

CUSTODY SEALS
Date 10/15/16
Signature

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Friday, August 26, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606580

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606580-001A	MP-SB01-GW		6/14/2016 2:00 PM	6/17/2016 9:50 AM	Groundwater
1606580-001B	MP-SB01-GW		6/14/2016 2:00 PM	6/17/2016 9:50 AM	Groundwater
1606580-002A	TB-GW-061416-03		6/14/2016 8:20 AM	6/17/2016 9:50 AM	Water
1606580-003A	AST35-SB01-GW		6/16/2016 9:40 AM	6/17/2016 9:50 AM	Groundwater
1606580-003B	AST35-SB01-GW		6/16/2016 9:40 AM	6/17/2016 9:50 AM	Groundwater
1606580-004A	H4-SB01-GW		6/15/2016 10:55 AM	6/17/2016 9:50 AM	Groundwater
1606580-004B	H4-SB01-GW		6/15/2016 10:55 AM	6/17/2016 9:50 AM	Groundwater
1606580-005A	H4-SB01-GW DUP		6/15/2016 10:55 AM	6/17/2016 9:50 AM	Groundwater
1606580-005B	H4-SB01-GW DUP		6/15/2016 10:55 AM	6/17/2016 9:50 AM	Groundwater
1606580-006A	H4-SB02-GW		6/15/2016 10:15 AM	6/17/2016 9:50 AM	Groundwater
1606580-006B	H4-SB02-GW		6/15/2016 10:15 AM	6/17/2016 9:50 AM	Groundwater
1606580-007A	H4-SB03-GW		6/15/2016 9:30 AM	6/17/2016 9:50 AM	Groundwater
1606580-007B	H4-SB03-GW		6/15/2016 9:30 AM	6/17/2016 9:50 AM	Groundwater
1606580-008A	H6-SB01-GW		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Groundwater
1606580-008B	H6-SB01-GW		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Groundwater
1606580-009A	H6-SB01-GW DUP		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Groundwater
1606580-009B	H6-SB01-GW DUP		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Groundwater
1606580-010A	H6-SB02-GW		6/15/2016 1:15 PM	6/17/2016 9:50 AM	Groundwater
1606580-010B	H6-SB02-GW		6/15/2016 1:15 PM	6/17/2016 9:50 AM	Groundwater
1606580-011A	H6-SB03-GW		6/15/2016 1:50 PM	6/17/2016 9:50 AM	Groundwater
1606580-011B	H6-SB03-GW		6/15/2016 1:50 PM	6/17/2016 9:50 AM	Groundwater

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Metals, ICP/MS - 6020A-PB-STAR
- Polychlorinated Biphenyls - 8082A
- Volatile Organic Compounds - 8260C
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_8082A, Analytical Run No 87065, Batch ID 40264:
Sample 1606580-007A: Decachlorobiphenyl surrogate exceeded control limit.

Analytical Comments for Test SW_8260A, Analytical Run No 86945, Batch ID R86945:
Sample VOA11B CCV2 062616: Acetone, Bromoform, chloromethane, Trichlorofluoromethane, 2-hexanone and exceed the 20% criteria.
Sample VOA11B MBLK2 062: Surrogate recovery for Toluene-d8 exceeded QC limit. Chloromethane concentration > 1/2 LOQ.
Sample VOA11B LCS2 0626: LCS results for Bromodichloromethane, Bromoform, Chlorodibromomethane, Chloromethane, cis-1,3-Dichloropropene exceed the 20% criteria.
Sample VOA11B LCSD2 062: Spike recoveries for several analytes were outside the control limits.
Sample 1606580-002A: Surrogate recovery for Toluene-d8 exceeded QC limit.
Sample VOA11B CCVE 062616: Trichlorofluoromethane and Bromomethane exceed the 50% criteria.

Analytical Comments for Test SW_8260A, Analytical Run No 86965, Batch ID R86965:
Sample VOA10 CCV 062716: 1,2-Dibromo-3-chloropropane and Chlorodibromomethane exceed the 20% criteria.
Sample VOA10 LCSD 06271: RPD for 1,2,4-Trichlorobenzene was outside the control limits.

Analytical Comments for Test SW_8260A, Analytical Run No 86984, Batch ID R86984:
Sample VOA10 CCV 062816: 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane and naphthalene exceed the 20% criteria.
Sample VOA10 LCSD 06281: 1,2-Dibromo-3-chloropropane, 1,2-dichlorobenzene, Bromoform and Chlorobenzene exceed limits. RPD for 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, and Chloroethane were outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86836, Batch ID 40190:
Sample MB-40190: Surrogate Phenol-d5 was outside the control limit
Sample LCS-40190: N-Nitrosodimethylamine, 4-Nitrophenol, Benzoic Acid, Phenol and Phenol-d5 exceeded control limit.
Sample LCSD-40190: N-Nitrosodimethylamine, 4-Nitrophenol and Phenol-d5 exceeded control limit. RPD for Benzoic Acid was outside the control limits.
Sample 1606580-001B: Surrogates recovery for Phenol-d5, and Nitrobenzene-d5 exceeded control limit.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86836, Batch ID R86836:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 062116: CCV results for 2,4-Dinitrophenol, Benzoic acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine, and Pentachlorophenol exceeded control limit.
Sample CCVE S8 062116: Ending CCV results for Benzoic acid exceeded the 50% criteria.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86948, Batch ID 40220:
Sample LCS-40220: 4-Nitrophenol, N-Nitrosodimethylamine and Phenol were outside the control limits.
Sample LCSD-40220: 4-Nitrophenol, Benzoic acid, and N-Nitrosodimethylamine were outside the control limits.
Sample MB-40220: Surrogates 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.
Sample 1606580-003B: Surrogate Phenol-d5, and 2-Fluorobiphenyl exceeded recovery control limit.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86948, Batch ID R86948:
Sample ICV S8 050216: ICV results for Benzoic Acid and Bis(2-chloroisopropyl) ether exceeded control limit.
Sample CCV S8 062616: CCV results 2,4-Dinitrophenol, Benzoic acid, N-Nitrosodiphenylamine and Pentachlorophenol
Sample CCVE S8 062616: Ending CCV results for Benzoic acid, Hexachlorocyclopentadiene exceeded recovery control limit.

Analytical Comments for Test SW_8260A, Analytical Run No 86945, Batch ID R86945:
1606580-002A SW_8260A: Sample ID 1606580-002A: Surrogate failure observed.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87461, Batch ID R40213:
Sample 1606580-001B: Surrogates 2-Fluorobiphenyl and Nitrobenzene-d5 were outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606580-001 **Matrix:** Groundwater
Client Sample ID: MP-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.96	U	0.87	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
1,2-Dichlorobenzene	0.96	U	0.89	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
1,3-Dichlorobenzene	0.96	U	0.73	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
1,4-Dichlorobenzene	2.4	U	1.0	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
2,4,6-Trichlorophenol	0.96	U	0.92	0.96	3.8	µg/L	1	6/21/2016 5:44 PM
2,4-Dichlorophenol	2.4	U	1.4	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
2,4-Dinitrophenol	9.6	UY	4.9	9.6	24	µg/L	1	6/21/2016 5:44 PM
2,4-Dinitrotoluene	0.96	U	0.58	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
2,6-Dinitrotoluene	0.96	U	0.82	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
2-Chloronaphthalene	0.96	U	0.85	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
2-Chlorophenol	0.96	U	0.84	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
2-Methylphenol (o-Cresol)	0.96	U	0.96	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
2-Nitroaniline	0.96	U	0.84	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/21/2016 5:44 PM
3-Nitroaniline	0.96	U	0.80	0.96	9.6	µg/L	1	6/21/2016 5:44 PM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.8	4.8	9.6	µg/L	1	6/21/2016 5:44 PM
4,6-Dinitro-2-methylphenol	0.96	U	0.85	0.96	9.6	µg/L	1	6/21/2016 5:44 PM
4-Bromophenyl phenyl ether	0.96	U	0.76	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
4-Chloroaniline [p-Chloroaniline]	0.96	U	0.78	0.96	9.6	µg/L	1	6/21/2016 5:44 PM
4-Chlorophenyl phenyl ether	0.96	U	0.76	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.6	µg/L	1	6/21/2016 5:44 PM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/21/2016 5:44 PM
Benzoic acid	33	YQ Z	2.0	2.4	24	µg/L	1	6/21/2016 5:44 PM
Benzyl alcohol	2.4	U	2.1	2.4	24	µg/L	1	6/21/2016 5:44 PM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
Bis(2-chloroethyl) ether	2.4	U	0.99	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
Bis(2-chloroisopropyl)ether	2.4	UY Z	1.1	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
Bis(2-ethylhexyl) phthalate	0.96	U	0.67	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Butyl benzyl phthalate	2.4	U	0.99	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
Carbazole	1.8	J	0.59	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Di-n-butyl phthalate	1.1	J	0.56	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	6/21/2016 5:44 PM
Dibenzofuran	0.96	U	0.72	0.96	3.8	µg/L	1	6/21/2016 5:44 PM
Diethyl phthalate	5.0		0.59	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Dimethyl phthalate	0.96	U	0.68	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Hexachlorobenzene	0.96	U	0.59	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Hexachlorobutadiene	0.96	U	0.82	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Hexachloroethane	0.96	U	0.71	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Isophorone	0.96	U	0.92	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.8	µg/L	1	6/21/2016 5:44 PM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606580-001 **Matrix:** Groundwater
Client Sample ID: MP-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
N-Nitrosodimethylamine	0.96	UY Q	0.61	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
N-Nitrosodiphenylamine	0.96	U	0.64	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/21/2016 5:44 PM
Pentachlorophenol	0.96	UY	0.88	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Phenol	0.96	UQ	0.58	0.96	4.8	µg/L	1	6/21/2016 5:44 PM
Surr: 2,4,6-Tribromophenol	78.7			43-140		%Rec	1	6/21/2016 5:44 PM
Surr: 2-Fluorobiphenyl	51.6			44-119		%Rec	1	6/21/2016 5:44 PM
Surr: 2-Fluorophenol	27.9			19-119		%Rec	1	6/21/2016 5:44 PM
Surr: Nitrobenzene-d5	42.7	Q		44-120		%Rec	1	6/21/2016 5:44 PM
Surr: Phenol-d5	19.1	JQ		30-130		%Rec	1	6/21/2016 5:44 PM
Surr: Terphenyl-d14	71.6			50-134		%Rec	1	6/21/2016 5:44 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	220		9.5	9.5	9.5	µg/L	500	6/25/2016 1:30 AM
2-Methylnaphthalene	330		9.5	9.5	9.5	µg/L	500	6/25/2016 1:30 AM
Acenaphthene	26		3.8	3.8	3.8	µg/L	200	6/25/2016 1:01 AM
Acenaphthylene	0.65		0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Anthracene	0.89		0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Benz(a)anthracene	0.12		0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Benzo(a)pyrene	0.031		0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Benzo(b)fluoranthene	0.056		0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Benzo(g,h,i)perylene	0.036		0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Chrysene	0.095		0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Fluoranthene	0.28		0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Fluorene	16		9.5	9.5	9.5	µg/L	500	6/25/2016 1:30 AM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Naphthalene	210		9.5	9.5	9.5	µg/L	500	6/25/2016 1:30 AM
Phenanthrene	60		3.8	3.8	3.8	µg/L	200	6/25/2016 1:01 AM
Pyrene	0.68		0.019	0.019	0.019	µg/L	1	6/23/2016 4:15 AM
Surr: 2-Fluorobiphenyl	45.3	Q		53-106		%Rec	1	6/23/2016 4:15 AM
Surr: Nitrobenzene-d5	220	JQ		55-111		%Rec	1	6/23/2016 4:15 AM
Surr: Terphenyl-d14	106			58-132		%Rec	1	6/23/2016 4:15 AM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 6:42 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/27/2016 6:42 PM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606580-001 **Matrix:** Groundwater
Client Sample ID: MP-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
2-Butanone [MEK]	19		2.3	5.0	10	µg/L	1	6/27/2016 6:42 PM
2-Hexanone	2.7		0.64	1.0	2.0	µg/L	1	6/27/2016 6:42 PM
Acetone	36		0.56	0.60	10	µg/L	1	6/27/2016 6:42 PM
Benzene	0.47	J	0.38	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Carbon disulfide	0.56	J	0.54	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 6:42 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
cis-1,2-Dichloroethene	1.4		0.44	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Ethylbenzene	8.5		0.43	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/27/2016 6:42 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Toluene	2.5		0.50	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 6:42 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 6:42 PM
Xylene (total)	45		1.3	1.8	3.0	µg/L	1	6/27/2016 6:42 PM
Surr: 4-Bromofluorobenzene	102			85-114		%Rec	1	6/27/2016 6:42 PM
Surr: Dibromofluoromethane	84.7			80-119		%Rec	1	6/27/2016 6:42 PM
Surr: Toluene-d8	95.4			89-112		%Rec	1	6/27/2016 6:42 PM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:20:00 AM
Project:	Camp Hero		
Lab ID:	1606580-002	**Matrix:**	Water
Client Sample ID:	TB-GW-061416-03		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 4:57 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/27/2016 4:57 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 4:57 AM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/27/2016 4:57 AM
Acetone	3.8	JY	0.56	0.60	10	µg/L	1	6/27/2016 4:57 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Bromodichloromethane	0.60	UQ	0.33	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Bromoform	0.60	UYQ	0.25	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 4:57 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Chloromethane	0.63	JYBQ	0.37	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Methylene chloride	0.46	J	0.27	0.60	5.0	µg/L	1	6/27/2016 4:57 AM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.55	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 4:57 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 4:57 AM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/27/2016 4:57 AM
Surr: 4-Bromofluorobenzene	91.0			85-114		%Rec	1	6/27/2016 4:57 AM
Surr: Dibromofluoromethane	80.9			80-119		%Rec	1	6/27/2016 4:57 AM
Surr: Toluene-d8	88.1	Q		89-112		%Rec	1	6/27/2016 4:57 AM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 9:40:00 AM
Project: Camp Hero
Lab ID: 1606580-003 **Matrix:** Groundwater
Client Sample ID: AST35-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.95	U	0.86	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
1,2-Dichlorobenzene	0.95	U	0.88	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
1,3-Dichlorobenzene	0.95	U	0.72	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
1,4-Dichlorobenzene	2.4	U	0.99	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
2,4,6-Trichlorophenol	0.95	U	0.91	0.95	3.8	µg/L	1	6/26/2016 2:17 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
2,4-Dinitrophenol	9.5	UY	4.8	9.5	24	µg/L	1	6/26/2016 2:17 PM
2,4-Dinitrotoluene	0.95	U	0.57	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
2,6-Dinitrotoluene	0.95	U	0.81	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
2-Chloronaphthalene	0.95	U	0.84	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
2-Chlorophenol	0.95	U	0.83	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
2-Methylphenol (o-Cresol)	0.95	U	0.95	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
2-Nitroaniline	0.95	U	0.84	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/26/2016 2:17 PM
3-Nitroaniline	0.95	U	0.79	0.95	9.5	µg/L	1	6/26/2016 2:17 PM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.7	4.8	9.5	µg/L	1	6/26/2016 2:17 PM
4,6-Dinitro-2-methylphenol	0.95	U	0.85	0.95	9.5	µg/L	1	6/26/2016 2:17 PM
4-Bromophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
4-Chloroaniline [p-Chloroaniline]	0.95	U	0.77	0.95	9.5	µg/L	1	6/26/2016 2:17 PM
4-Chlorophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.5	µg/L	1	6/26/2016 2:17 PM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/26/2016 2:17 PM
Benzoic acid	2.4	UY QZ	1.9	2.4	24	µg/L	1	6/26/2016 2:17 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/26/2016 2:17 PM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
Bis(2-chloroethyl) ether	2.4	U	0.98	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
Bis(2-chloroisopropyl)ether	2.4	UZ	1.1	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
Bis(2-ethylhexyl) phthalate	0.95	U	0.67	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Butyl benzyl phthalate	2.4	U	0.98	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
Carbazole	0.95	U	0.58	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Di-n-butyl phthalate	0.95	U	0.55	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	6/26/2016 2:17 PM
Dibenzofuran	0.95	U	0.72	0.95	3.8	µg/L	1	6/26/2016 2:17 PM
Diethyl phthalate	0.95	U	0.59	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Dimethyl phthalate	0.95	U	0.68	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Hexachlorobenzene	0.95	U	0.58	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Hexachlorobutadiene	0.95	U	0.81	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Hexachloroethane	0.95	U	0.70	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.8	µg/L	1	6/26/2016 2:17 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 9:40:00 AM
Project: Camp Hero
Lab ID: 1606580-003 **Matrix:** Groundwater
Client Sample ID: AST35-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
N-Nitrosodimethylamine	0.95	UQ	0.60	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
N-Nitrosodiphenylamine	0.95	UY	0.63	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/26/2016 2:17 PM
Pentachlorophenol	0.95	UY	0.88	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Phenol	0.95	UQ	0.57	0.95	4.8	µg/L	1	6/26/2016 2:17 PM
Surr: 2,4,6-Tribromophenol	67.6			43-140		%Rec	1	6/26/2016 2:17 PM
Surr: 2-Fluorobiphenyl	43.8	Q		44-119		%Rec	1	6/26/2016 2:17 PM
Surr: 2-Fluorophenol	24.8			19-119		%Rec	1	6/26/2016 2:17 PM
Surr: Nitrobenzene-d5	44.9			44-120		%Rec	1	6/26/2016 2:17 PM
Surr: Phenol-d5	14.8	JQ		30-130		%Rec	1	6/26/2016 2:17 PM
Surr: Terphenyl-d14	66.4			50-134		%Rec	1	6/26/2016 2:17 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.24		0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
2-Methylnaphthalene	0.57		0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Acenaphthene	0.085		0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Acenaphthylene	0.038		0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Anthracene	0.023		0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Fluoranthene	0.035		0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Fluorene	0.21		0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Naphthalene	0.21		0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Phenanthrene	0.27		0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Pyrene	0.034		0.019	0.019	0.019	µg/L	1	6/23/2016 4:42 AM
Surr: 2-Fluorobiphenyl	69.5			53-106		%Rec	1	6/23/2016 4:42 AM
Surr: Nitrobenzene-d5	69.8			55-111		%Rec	1	6/23/2016 4:42 AM
Surr: Terphenyl-d14	96.9			58-132		%Rec	1	6/23/2016 4:42 AM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 11:57 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
1,2-Dibromo-3-chloropropane	2.0	UY Q	1.0	2.0	5.0	µg/L	1	6/28/2016 11:57 AM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 9:40:00 AM
Project: Camp Hero
Lab ID: 1606580-003 **Matrix:** Groundwater
Client Sample ID: AST35-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
2-Butanone [MEK]	5.0	J	2.3	5.0	10	µg/L	1	6/28/2016 11:57 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 11:57 AM
Acetone	19		0.56	0.60	10	µg/L	1	6/28/2016 11:57 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 11:57 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 11:57 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 11:57 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 11:57 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 11:57 AM
Surr: 4-Bromofluorobenzene	94.2			85-114		%Rec	1	6/28/2016 11:57 AM
Surr: Dibromofluoromethane	87.4			80-119		%Rec	1	6/28/2016 11:57 AM
Surr: Toluene-d8	93.0			89-112		%Rec	1	6/28/2016 11:57 AM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606580-004	**Matrix:**	Groundwater
Client Sample ID:	H4-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/28/2016 11:44 PM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/28/2016 11:44 PM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/28/2016 11:44 PM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/28/2016 11:44 PM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/28/2016 11:44 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/28/2016 11:44 PM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/28/2016 11:44 PM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/28/2016 11:44 PM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/28/2016 11:44 PM
Surr: Tetrachloro-m-xylene	49.3			40-135		%Rec	1	6/28/2016 11:44 PM
Surr: Decachlorobiphenyl	56.1			40-135		%Rec	1	6/28/2016 11:44 PM
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	52	G	0.24	0.50	1.0	µg/L	5	7/13/2016 1:56 PM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606580-005	**Matrix:**	Groundwater
Client Sample ID:	H4-SB01-GW DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/29/2016 12:08 AM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/29/2016 12:08 AM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/29/2016 12:08 AM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/29/2016 12:08 AM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/29/2016 12:08 AM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 12:08 AM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/29/2016 12:08 AM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/29/2016 12:08 AM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/29/2016 12:08 AM
Surr: Tetrachloro-m-xylene	50.9			40-135		%Rec	1	6/29/2016 12:08 AM
Surr: Decachlorobiphenyl	47.4			40-135		%Rec	1	6/29/2016 12:08 AM
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	23	G	0.24	0.50	1.0	µg/L	5	7/13/2016 1:58 PM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:15:00 AM
Project:	Camp Hero		
Lab ID:	1606580-006	**Matrix:**	Groundwater
Client Sample ID:	H4-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	6/29/2016 12:33 AM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	6/29/2016 12:33 AM
Aroclor 1232	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 12:33 AM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	6/29/2016 12:33 AM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	6/29/2016 12:33 AM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	6/29/2016 12:33 AM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	6/29/2016 12:33 AM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	6/29/2016 12:33 AM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	6/29/2016 12:33 AM
Surr: Tetrachloro-m-xylene	51.4			40-135		%Rec	1	6/29/2016 12:33 AM
Surr: Decachlorobiphenyl	53.4			40-135		%Rec	1	6/29/2016 12:33 AM
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	33	G	0.24	0.50	1.0	µg/L	5	7/13/2016 1:59 PM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:30:00 AM
Project:	Camp Hero		
Lab ID:	1606580-007	**Matrix:**	Groundwater
Client Sample ID:	H4-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/29/2016 12:57 AM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/29/2016 12:57 AM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/29/2016 12:57 AM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/29/2016 12:57 AM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/29/2016 12:57 AM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 12:57 AM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/29/2016 12:57 AM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/29/2016 12:57 AM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/29/2016 12:57 AM
Surr: Tetrachloro-m-xylene	47.5			40-135		%Rec	1	6/29/2016 12:57 AM
Surr: Decachlorobiphenyl	33.9	Q		40-135		%Rec	1	6/29/2016 12:57 AM
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	22	G	0.24	0.50	1.0	µg/L	5	7/13/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:35:00 PM
Project:	Camp Hero		
Lab ID:	1606580-008	**Matrix:**	Groundwater
Client Sample ID:	H6-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/29/2016 1:21 AM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/29/2016 1:21 AM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/29/2016 1:21 AM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/29/2016 1:21 AM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/29/2016 1:21 AM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 1:21 AM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/29/2016 1:21 AM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/29/2016 1:21 AM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/29/2016 1:21 AM
Surr: Tetrachloro-m-xylene	45.7			40-135		%Rec	1	6/29/2016 1:21 AM
Surr: Decachlorobiphenyl	40.1			40-135		%Rec	1	6/29/2016 1:21 AM
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	33	G	0.24	0.50	1.0	µg/L	5	7/13/2016 2:01 PM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:35:00 PM
Project:	Camp Hero		
Lab ID:	1606580-009	**Matrix:**	Groundwater
Client Sample ID:	H6-SB01-GW DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	7/1/2016 6:45 PM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	7/1/2016 6:45 PM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	7/1/2016 6:45 PM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	7/1/2016 6:45 PM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	7/1/2016 6:45 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	7/1/2016 6:45 PM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	7/1/2016 6:45 PM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	7/1/2016 6:45 PM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	7/1/2016 6:45 PM
Surr: Tetrachloro-m-xylene	57.7			40-135		%Rec	1	7/1/2016 6:45 PM
Surr: Decachlorobiphenyl	52.7			40-135		%Rec	1	7/1/2016 6:45 PM
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	19	G	0.24	0.50	1.0	µg/L	5	7/13/2016 2:02 PM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:15:00 PM
Project:	Camp Hero		
Lab ID:	1606580-010	**Matrix:**	Groundwater
Client Sample ID:	H6-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/29/2016 2:59 AM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/29/2016 2:59 AM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/29/2016 2:59 AM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/29/2016 2:59 AM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/29/2016 2:59 AM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 2:59 AM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/29/2016 2:59 AM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/29/2016 2:59 AM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/29/2016 2:59 AM
Surr: Tetrachloro-m-xylene	59.3			40-135		%Rec	1	6/29/2016 2:59 AM
Surr: Decachlorobiphenyl	68.5			40-135		%Rec	1	6/29/2016 2:59 AM
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	20	G	0.24	0.50	1.0	µg/L	5	7/13/2016 2:03 PM

RTI Laboratories - Analytical Report

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:50:00 PM
Project:	Camp Hero		
Lab ID:	1606580-011	**Matrix:**	Groundwater
Client Sample ID:	H6-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/29/2016 3:23 AM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/29/2016 3:23 AM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/29/2016 3:23 AM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/29/2016 3:23 AM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/29/2016 3:23 AM
Aroclor 1254	2.0		0.038	0.038	0.19	µg/L	1	6/29/2016 3:23 AM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/29/2016 3:23 AM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/29/2016 3:23 AM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/29/2016 3:23 AM
Surr: Tetrachloro-m-xylene	55.4			40-135		%Rec	1	6/29/2016 3:23 AM
Surr: Decachlorobiphenyl	45.8			40-135		%Rec	1	6/29/2016 3:23 AM
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	52	G	0.24	0.50	1.0	µg/L	5	7/13/2016 2:04 PM

RTI Laboratories - DATES REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606580-001A	MP-SB01-GW	6/14/2016 2:00 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 7:27 AM	6/27/2016 7:27 AM
				SW_8260A-Volatile Organic Compounds		6/27/2016 6:42 PM	6/27/2016 6:42 PM
1606580-001B	MP-SB01-GW	6/14/2016 2:00 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/17/2016 12:20 PM	6/21/2016 5:44 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 4:15 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/25/2016 1:01 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/25/2016 1:30 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/28/2016 5:34 AM
1606580-002A	TB-GW-061416-03	6/14/2016 8:20 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/27/2016 4:57 AM	6/27/2016 4:57 AM
1606580-003A	AST35-SB01-GW	6/16/2016 9:40 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 7:52 AM	6/27/2016 7:52 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 11:57 AM	6/28/2016 11:57 AM
1606580-003B	AST35-SB01-GW	6/16/2016 9:40 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 4:42 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 2:17 PM
1606580-004A	H4-SB01-GW	6/15/2016 10:55 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/28/2016 11:44 PM
1606580-004B	H4-SB01-GW	6/15/2016 10:55 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 1:56 PM
1606580-005A	H4-SB01-GW DUP	6/15/2016 10:55 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 12:08 AM
1606580-005B	H4-SB01-GW DUP	6/15/2016 10:55 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 1:58 PM
1606580-006A	H4-SB02-GW	6/15/2016 10:15 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 12:33 AM
1606580-006B	H4-SB02-GW	6/15/2016 10:15 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 1:59 PM
1606580-007A	H4-SB03-GW	6/15/2016 9:30 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 12:57 AM

RTI Laboratories - DATES REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606580-007B	H4-SB03-GW	6/15/2016 9:30 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:00 PM
1606580-008A	H6-SB01-GW	6/15/2016 12:35 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 1:21 AM
1606580-008B	H6-SB01-GW	6/15/2016 12:35 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:01 PM
1606580-009A	H6-SB01-GW DUP	6/15/2016 12:35 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 2:35 AM
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	7/1/2016 6:45 PM
1606580-009B	H6-SB01-GW DUP	6/15/2016 12:35 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:02 PM
1606580-010A	H6-SB02-GW	6/15/2016 1:15 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 2:59 AM
1606580-010B	H6-SB02-GW	6/15/2016 1:15 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:03 PM
1606580-011A	H6-SB03-GW	6/15/2016 1:50 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 3:23 AM
1606580-011B	H6-SB03-GW	6/15/2016 1:50 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:04 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	MB-40178	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	PBS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701925

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	13		16.50		80.9	46	115				
Surr: Nitrobenzene-d5	14		16.50		84.4	44	125				
Surr: Terphenyl-d14	16		16.50		95.3	58	133				

Sample ID:	LCS-40178	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	LCSS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701926

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		16.54		81.7	46	115				
Surr: Nitrobenzene-d5	14		16.54		84.1	44	125				
Surr: Terphenyl-d14	16		16.54		94.9	58	133				

Sample ID:	1606392-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701928

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	15		17.40		83.7	46	115				
Surr: Nitrobenzene-d5	17		17.40		94.9	44	125				
Surr: Terphenyl-d14	17		17.40		96.9	58	133				

Sample ID:	1606392-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701929

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		17.35		82.3	46	115		0	25	
Surr: Nitrobenzene-d5	16		17.35		92.5	44	125		0	25	
Surr: Terphenyl-d14	17		17.35		97.4	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86883**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685699**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	20	20									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitrophenol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	1.0	1.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Diethyl phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685699

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	1.0	1.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	40	125				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	50	110				Q
Surr: 2-Fluorophenol	7.4		25.00		29.8	20	110				
Surr: Nitrobenzene-d5	11		25.00		45.5	40	110				
Surr: Phenol-d5	4.8		25.00		19.3	20	130				Q
Surr: Terphenyl-d14	24		25.00		94.3	50	135				

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685700

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	20	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86883**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685700**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	37	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitrophenol	23	25	50.00	0	46.9	30	150				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	1.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	1.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	49	119				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	30	150				Y
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685700

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	26	5.0	20.00	0	128	38	138				Y
Phenol	6.4	5.0	20.00	0	31.8	30	150				
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	50	130				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86883
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685701

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	20	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	20	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	20	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	20	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	20	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	20	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	20	
2,4-Dinitrophenol	61	20	50.00	0	122	23	143	59.07	3.12	20	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	20	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	20	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	20	
2-Chlorophenol	14	5.0	20.00	0	67.8	37	117	11.51	16.4	20	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	20	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	20	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	20	J
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	20	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	20	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-40190**	Samp Type:	**LCSD**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86883**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685701**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	20	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	20	
4-Nitrophenol	23	25	50.00	0	46.6	30	150	23.46	0.684	20	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	20	
Bis(2-chloroethyl) ether	12	1.0	20.00	0	58.2	43	118	10.45	10.8	20	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	20	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	20	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	20	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	20	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	20	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	20	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	20	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	20	
Hexachlorobenzene	11	1.0	20.00	0	55.8	53	125	11.59	3.78	20	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	20	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	20	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	20	
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	49	119	11.64	9.88	20	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	30	150	6.020	15.9	20	Y
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	20	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	20	
Pentachlorophenol	27	5.0	20.00	0	133	38	138	25.65	3.52	20	Y
Phenol	7.0	5.0	20.00	0	35.2	30	150	6.350	10.4	20	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	20	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	20	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	20	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	20	
Surr: Phenol-d5	8.1		25.00		32.4	50	130		0	20	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86884**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685740**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	1.0	1.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685740

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	1.0	1.0									U
Hexachlorobutadiene	1.0	1.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				J
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	30	130				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685741

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86884**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685741**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	1.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685741

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	1.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	1.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenol	6.4	5.0	20.00	0	31.8	50	130				Q
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	30	130				J
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685742

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86884**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1685742**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	1.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Hexachlorobenzene	11	1.0	20.00	0	55.8	53	125	11.59	3.78	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86884
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1685742

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachlorobutadiene	7.0	1.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenol	7.0	5.0	20.00	0	35.2	50	130	6.350	10.4	25	Q
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	30	130		0	25	J
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684993

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**MB-40190**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**PBW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684993**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684993

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	33	122				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684994

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684994**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Benzoic acid	17	25	40.00	0	42.6	50	130				JQYZ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	5.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	5.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684994

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenol	6.4	5.0	20.00	0	31.8	34	121				Q
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	33	122				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684995

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	25	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/17/2016**	RunNo:	**86836**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1684995**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Benzoic acid	32	25	40.00	0	80.1	50	130	17.03	61.2	25	RYZ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	5.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Hexachlorobenzene	11	5.0	20.00	0	55.8	53	125	11.59	3.78	25	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	LCSD-40190	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/17/2016	RunNo:	86836
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1684995

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenol	7.0	5.0	20.00	0	35.2	34	121	6.350	10.4	25	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	33	122		0	25	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

Sample ID:	MB-1-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40190

Sample ID:	MB-1-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	MB-1-40190	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	PBW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718224

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	21		25.00		85.8	43	140				
Surr: 2-Fluorobiphenyl	11		25.00		45.7	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				
Surr: Nitrobenzene-d5	11		25.00		45.5	44	120				
Surr: Phenol-d5	4.8		25.00		19.3	33	122				JQ
Surr: Terphenyl-d14	24		25.00		94.3	50	134				

Sample ID:	LCS-1-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718225

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.9	5.0	20.00	0	39.4	29	116				
1,2-Dichlorobenzene	8.4	5.0	20.00	0	42.1	32	111				
1,3-Dichlorobenzene	7.6	5.0	20.00	0	38.1	28	110				
1,4-Dichlorobenzene	7.8	5.0	20.00	0	39.0	29	112				
2,4,5-Trichlorophenol	17	5.0	20.00	0	84.5	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.8	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	72.4	47	121				
2,4-Dimethyl phenol	12	5.0	20.00	0	62.4	31	124				
2,4-Dinitrophenol	59	25	50.00	0	118	23	143				JY
2,4-Dinitrotoluene	20	5.0	20.00	0	98.4	57	128				
2,6-Dinitrotoluene	16	5.0	20.00	0	81.6	57	124				
2-Chloronaphthalene	9.4	5.0	20.00	0	46.8	40	116				
2-Chlorophenol	12	5.0	20.00	0	57.6	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	59.4	30	117				
2-Nitroaniline	16	5.0	20.00	0	80.9	55	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCS-1-40190**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSW**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718225**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitrophenol	14	5.0	20.00	0	70.0	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.5	27	129				J
3-Nitroaniline	17	10	20.00	0	86.2	41	128				
3/4-Methylphenol [m/p-Cresol]	21	10	40.00	0	53.6	25	120				
4,6-Dinitro-2-methylphenol	24	10	20.00	0	119	44	137				
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.0	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	73.7	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	64.9	53	121				
4-Nitroaniline	16	10	20.00	0	81.8	50	130				
4-Nitrophenol	23	25	50.00	0	46.9	50	130				JQ
Benzoic acid	17	25	40.00	0	42.6	50	130				JQYZ
Benzyl alcohol	10	25	20.00	0	51.4	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	56.6	48	120				
Bis(2-chloroethyl) ether	10	5.0	20.00	0	52.2	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.5	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.4	55	135				
Butyl benzyl phthalate	19	5.0	20.00	0	95.2	53	134				
Carbazole	17	5.0	20.00	0	85.8	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	86.9	59	127				
Di-n-octyl phthalate	19	5.0	20.00	0	93.3	51	140				
Dibenzofuran	13	4.0	20.00	0	62.7	53	118				
Diethyl phthalate	17	5.0	20.00	0	86.9	56	125				
Dimethyl phthalate	16	5.0	20.00	0	81.7	45	127				
Hexachlorobenzene	12	5.0	20.00	0	58.0	53	125				
Hexachlorobutadiene	6.4	5.0	20.00	0	31.9	22	124				
Hexachloroethane	6.1	5.0	20.00	0	30.5	21	115				
Isophorone	12	5.0	20.00	0	58.6	42	124				
N-Nitroso-di-n-propylamine	12	5.0	20.00	0	58.2	50	130				
N-Nitrosodimethylamine	6.0	5.0	20.00	0	30.1	50	130				QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	LCS-1-40190	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	LCSW	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718225

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	14	5.0	20.00	0	69.2	51	123				
Nitrobenzene	11	3.0	20.00	0	55.6	45	121				
Pentachlorophenol	26	5.0	20.00	0	128	35	138				Y
Phenol	6.4	5.0	20.00	0	31.8	34	121				Q
Surr: 2,4,6-Tribromophenol	27		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	16		25.00		65.9	44	119				
Surr: 2-Fluorophenol	10		25.00		40.5	19	119				
Surr: Nitrobenzene-d5	17		25.00		68.1	44	120				
Surr: Phenol-d5	7.8		25.00		31.1	33	122				Q
Surr: Terphenyl-d14	27		25.00		109	50	134				

Sample ID:	LCSD-1-40190	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	88339
Client ID:	LCSS02	Batch ID:	40190	TestNo:	SW8270C	SW3510C		Analysis Date:	6/21/2016	SeqNo:	1718226

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.7	5.0	20.00	0	43.6	29	116	7.880	10.1	25	
1,2-Dichlorobenzene	9.4	5.0	20.00	0	46.9	32	111	8.420	10.7	25	
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.3	28	110	7.620	10.4	25	
1,4-Dichlorobenzene	8.6	5.0	20.00	0	43.0	29	112	7.790	10.0	25	
2,4,5-Trichlorophenol	17	5.0	20.00	0	83.0	53	123	16.90	1.73	25	
2,4,6-Trichlorophenol	17	4.0	20.00	0	86.0	50	125	15.95	7.54	25	
2,4-Dichlorophenol	16	5.0	20.00	0	80.2	47	121	14.48	10.3	25	
2,4-Dimethyl phenol	13	5.0	20.00	0	65.4	31	124	12.47	4.85	25	
2,4-Dinitrophenol	61	25	50.00	0	122	23	143	59.07	3.12	25	JY
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128	19.68	1.43	25	
2,6-Dinitrotoluene	17	5.0	20.00	0	82.6	57	124	16.32	1.16	25	
2-Chloronaphthalene	10	5.0	20.00	0	51.7	40	116	9.350	10.1	25	
2-Chlorophenol	14	5.0	20.00	0	67.8	38	117	11.51	16.4	25	
2-Methylphenol (o-Cresol)	13	5.0	20.00	0	64.7	30	117	11.87	8.63	25	
2-Nitroaniline	17	5.0	20.00	0	82.9	55	127	16.17	2.50	25	
2-Nitrophenol	16	5.0	20.00	0	80.5	47	123	14.01	13.9	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-1-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718226**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
3,3´-Dichlorobenzidine	16	20	20.00	0	82.4	27	129	17.10	3.69	25	J
3-Nitroaniline	17	10	20.00	0	87.0	41	128	17.23	0.982	25	
3/4-Methylphenol [m/p-Cresol]	23	10	40.00	0	57.6	25	120	21.44	7.11	25	
4,6-Dinitro-2-methylphenol	23	10	20.00	0	116	44	137	23.73	2.47	25	
4-Bromophenyl phenyl ether	12	5.0	20.00	0	61.0	55	124	12.43	1.79	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	90.7	52	119	16.99	6.55	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	77.2	33	117	14.74	4.64	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	67.3	53	121	12.98	3.63	25	
4-Nitroaniline	16	10	20.00	0	78.0	50	130	16.37	4.75	25	
4-Nitrophenol	23	25	50.00	0	46.6	50	130	23.46	0.684	25	JQ
Benzoic acid	32	25	40.00	0	80.1	50	130	17.03	61.2	25	RYZ
Benzyl alcohol	12	25	20.00	0	60.9	31	112	10.27	17.0	25	J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	64.2	48	120	11.32	12.7	25	
Bis(2-chloroethyl) ether	12	5.0	20.00	0	58.2	43	118	10.45	10.8	25	
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	58.0	37	130	9.900	15.8	25	YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	92.5	55	135	19.47	5.11	25	
Butyl benzyl phthalate	18	5.0	20.00	0	92.4	53	134	19.04	3.04	25	
Carbazole	17	5.0	20.00	0	84.0	60	122	17.15	2.12	25	
Di-n-butyl phthalate	17	5.0	20.00	0	85.4	59	127	17.37	1.63	25	
Di-n-octyl phthalate	18	5.0	20.00	0	89.8	51	140	18.65	3.71	25	
Dibenzofuran	13	4.0	20.00	0	66.2	53	118	12.53	5.43	25	
Diethyl phthalate	18	5.0	20.00	0	88.6	56	125	17.37	1.94	25	
Dimethyl phthalate	16	5.0	20.00	0	80.5	45	127	16.34	1.48	25	
Hexachlorobenzene	11	5.0	20.00	0	55.8	53	125	11.59	3.78	25	
Hexachlorobutadiene	7.0	5.0	20.00	0	35.2	22	124	6.380	9.69	25	
Hexachloroethane	6.7	5.0	20.00	0	33.3	21	115	6.100	8.78	25	
Isophorone	13	5.0	20.00	0	64.9	42	124	11.73	10.0	25	
N-Nitroso-di-n-propylamine	13	5.0	20.00	0	64.2	50	130	11.64	9.88	25	
N-Nitrosodimethylamine	7.1	5.0	20.00	0	35.3	50	130	6.020	15.9	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.2	51	123	13.84	1.38	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40190**

Sample ID:	**LCSD-1-40190**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**88339**
Client ID:	**LCSS02**	Batch ID:	**40190**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/21/2016**	SeqNo:	**1718226**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrobenzene	13	3.0	20.00	0	64.0	45	121	11.13	14.0	25	
Pentachlorophenol	27	5.0	20.00	0	133	35	138	25.65	3.52	25	Y
Phenol	7.0	5.0	20.00	0	35.2	34	121	6.350	10.4	25	
Surr: 2,4,6-Tribromophenol	27		25.00		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		69.8	44	119		0	25	
Surr: 2-Fluorophenol	11		25.00		45.1	19	119		0	25	
Surr: Nitrobenzene-d5	19		25.00		74.6	44	120		0	25	
Surr: Phenol-d5	8.1		25.00		32.4	33	122		0	25	Q
Surr: Terphenyl-d14	26		25.00		103	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	MB-40213	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	PBW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									U
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.43		0.5000		85.2	53	106				
Surr: Nitrobenzene-d5	0.46		0.5000		91.2	55	111				
Surr: Terphenyl-d14	0.57		0.5000		113	58	132				

Sample ID:	LCS-40213	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	LCSW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698439

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.34	0.020	0.4000	0	84.8	41	115				
2-Methylnaphthalene	0.32	0.020	0.4000	0	80.7	39	114				
Acenaphthene	0.33	0.020	0.4000	0	83.5	48	114				
Acenaphthylene	0.32	0.020	0.4000	0	80.3	35	121				
Anthracene	0.35	0.020	0.4000	0	86.5	53	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	**LCS-40213**	Samp Type:	**LCS**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**87461**
Client ID:	**LCSW**	Batch ID:	**40213**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/22/2016**	SeqNo:	**1698439**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.46	0.020	0.4000	0	116	59	120				
Benzo(a)pyrene	0.34	0.020	0.4000	0	85.8	53	120				
Benzo(b)fluoranthene	0.46	0.020	0.4000	0	115	53	126				
Benzo(g,h,i)perylene	0.38	0.020	0.4000	0	96.0	44	128				
Benzo(k)fluoranthene	0.31	0.020	0.4000	0	78.3	54	125				
Chrysene	0.32	0.020	0.4000	0	78.8	57	120				
Dibenzo(a,h)anthracene	0.40	0.020	0.4000	0	99.8	44	131				
Fluoranthene	0.35	0.020	0.4000	0	86.6	58	120				
Fluorene	0.35	0.020	0.4000	0	87.5	50	118				
Indeno(1,2,3-cd)pyrene	0.40	0.020	0.4000	0	99.7	48	130				
Naphthalene	0.30	0.020	0.4000	0	75.7	43	114				
Phenanthrene	0.39	0.020	0.4000	0	98.0	53	115				
Pyrene	0.40	0.020	0.4000	0	100	53	124				
Surr: 2-Fluorobiphenyl	0.44		0.5000		88.5	53	106				
Surr: Nitrobenzene-d5	0.52		0.5000		103	55	111				
Surr: Terphenyl-d14	0.61		0.5000		121	58	132				

Sample ID:	**LCSD-40213**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**87461**
Client ID:	**LCSS02**	Batch ID:	**40213**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/22/2016**	SeqNo:	**1698440**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.35	0.020	0.4000	0	87.0	41	115	0.3390	2.57	20	
2-Methylnaphthalene	0.32	0.020	0.4000	0	81.2	39	114	0.3227	0.584	20	
Acenaphthene	0.34	0.020	0.4000	0	85.5	48	114	0.3340	2.40	20	
Acenaphthylene	0.33	0.020	0.4000	0	82.0	35	121	0.3210	2.16	20	
Anthracene	0.33	0.020	0.4000	0	83.6	53	119	0.3461	3.48	20	
Benz(a)anthracene	0.44	0.020	0.4000	0	110	59	120	0.4634	4.94	20	
Benzo(a)pyrene	0.33	0.020	0.4000	0	83.4	53	120	0.3434	2.91	20	
Benzo(b)fluoranthene	0.39	0.020	0.4000	0	96.4	53	126	0.4604	17.7	20	
Benzo(g,h,i)perylene	0.37	0.020	0.4000	0	93.6	44	128	0.3840	2.56	20	
Benzo(k)fluoranthene	0.36	0.020	0.4000	0	91.2	54	125	0.3130	15.2	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	**LCSD-40213**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**87461**
Client ID:	**LCSS02**	Batch ID:	**40213**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/22/2016**	SeqNo:	**1698440**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.34	0.020	0.4000	0	84.3	57	120	0.3151	6.81	20	
Dibenzo(a,h)anthracene	0.39	0.020	0.4000	0	97.3	44	131	0.3992	2.56	20	
Fluoranthene	0.35	0.020	0.4000	0	86.7	58	120	0.3464	0.0895	20	
Fluorene	0.36	0.020	0.4000	0	89.9	50	118	0.3499	2.74	20	
Indeno(1,2,3-cd)pyrene	0.39	0.020	0.4000	0	97.5	48	130	0.3988	2.22	20	
Naphthalene	0.31	0.020	0.4000	0	77.2	43	114	0.3028	1.98	20	
Phenanthrene	0.40	0.020	0.4000	0	101	53	115	0.3921	2.64	20	
Pyrene	0.40	0.020	0.4000	0	101	53	124	0.4010	0.790	20	
Surr: 2-Fluorobiphenyl	0.45		0.5000		90.5	53	106		0	20	
Surr: Nitrobenzene-d5	0.52		0.5000		104	55	111		0	20	
Surr: Terphenyl-d14	0.61		0.5000		122	58	132		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40220

Sample ID:	MB- 40220	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	86948
Client ID:	PBW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686944

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	MB- 40220	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	86948
Client ID:	PBW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686944

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	5.0	5.0									UZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									UY
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	44		25.00		176	43	140				Q
Surr: 2-Fluorobiphenyl	31		25.00		122	44	119				Q
Surr: 2-Fluorophenol	18		25.00		73.3	19	119				
Surr: Nitrobenzene-d5	32		25.00		129	44	120				Q
Surr: Phenol-d5	13		25.00		51.4	33	122				
Surr: Terphenyl-d14	45		25.00		180	50	134				Q

Sample ID:	LCS-40220	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86948
Client ID:	LCSW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686945

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.9	5.0	20.00	0	49.4	29	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCS-40220**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686945**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	9.2	5.0	20.00	0	45.8	32	111				
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.6	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.6	29	112				
2,4,5-Trichlorophenol	15	5.0	20.00	0	77.0	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.9	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	75.6	47	121				
2,4-Dimethyl phenol	13	5.0	20.00	0	63.5	31	124				
2,4-Dinitrophenol	48	25	50.00	0	95.1	23	143				Y
2,4-Dinitrotoluene	16	5.0	20.00	0	79.6	57	128				
2,6-Dinitrotoluene	15	5.0	20.00	0	73.2	57	124				
2-Chloronaphthalene	11	5.0	20.00	0	56.3	40	116				
2-Chlorophenol	12	5.0	20.00	0	61.4	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	62.0	30	117				
2-Nitroaniline	14	5.0	20.00	0	68.3	55	127				
2-Nitrophenol	15	5.0	20.00	0	74.6	47	123				
3,3´-Dichlorobenzidine	13	20	20.00	0	64.2	27	129				J
3-Nitroaniline	15	10	20.00	0	76.9	41	128				
3/4-Methylphenol [m/p-Cresol]	22	10	40.00	0	54.7	25	120				
4,6-Dinitro-2-methylphenol	17	10	20.00	0	86.0	44	137				
4-Bromophenyl phenyl ether	13	5.0	20.00	0	62.8	55	124				
4-Chloro-3-methylphenol	16	5.0	20.00	0	81.6	52	119				
4-Chloroaniline [p-Chloroaniline]	14	10	20.00	0	67.6	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	73.1	53	121				
4-Nitroaniline	12	10	20.00	0	62.0	50	130				
4-Nitrophenol	15	25	50.00	0	30.0	50	130				JQ
Benzoic acid	21	25	40.00	0	51.9	50	130				JYZ
Benzyl alcohol	9.7	25	20.00	0	48.6	31	112				J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	63.0	48	120				
Bis(2-chloroethyl) ether	12	5.0	20.00	0	59.5	43	118				
Bis(2-chloroisopropyl)ether	13	5.0	20.00	0	64.0	37	130				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	LCS-40220	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86948
Client ID:	LCSW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686945

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	15	5.0	20.00	0	76.0	55	135				
Butyl benzyl phthalate	15	5.0	20.00	0	73.6	53	134				
Carbazole	14	5.0	20.00	0	71.7	60	122				
Di-n-butyl phthalate	14	5.0	20.00	0	71.3	59	127				
Di-n-octyl phthalate	15	5.0	20.00	0	72.8	51	140				
Dibenzofuran	14	4.0	20.00	0	68.7	53	118				
Diethyl phthalate	16	5.0	20.00	0	78.3	56	125				
Dimethyl phthalate	14	5.0	20.00	0	72.2	45	127				
Hexachlorobenzene	13	5.0	20.00	0	63.0	53	125				
Hexachlorobutadiene	9.9	5.0	20.00	0	49.7	22	124				
Hexachloroethane	8.7	5.0	20.00	0	43.4	21	115				
Isophorone	13	5.0	20.00	0	65.6	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	69.7	50	130				
N-Nitrosodimethylamine	7.0	5.0	20.00	0	34.9	50	130				Q
N-Nitrosodiphenylamine	12	5.0	20.00	0	58.8	51	123				Y
Nitrobenzene	13	3.0	20.00	0	64.7	45	121				
Pentachlorophenol	11	5.0	20.00	0	54.8	35	138				Y
Phenol	6.3	5.0	20.00	0	31.6	34	121				Q
Surr: 2,4,6-Tribromophenol	22		25.00		87.1	43	140				
Surr: 2-Fluorobiphenyl	20		25.00		79.6	44	119				
Surr: 2-Fluorophenol	12		25.00		46.6	19	119				
Surr: Nitrobenzene-d5	20		25.00		81.6	44	120				
Surr: Phenol-d5	8.3		25.00		33.4	33	122				
Surr: Terphenyl-d14	23		25.00		90.6	50	134				

Sample ID:	LCSD-40220	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86948
Client ID:	LCSS02	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686946

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	5.0	20.00	0	56.7	29	116	9.870	13.9	25	
1,2-Dichlorobenzene	11	5.0	20.00	0	53.5	32	111	9.160	15.5	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCSD-40220**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSS02**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686946**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	9.4	5.0	20.00	0	46.8	28	110	8.530	9.28	25	
1,4-Dichlorobenzene	10	5.0	20.00	0	49.9	29	112	8.910	11.3	25	
2,4,5-Trichlorophenol	18	5.0	20.00	0	87.7	53	123	15.39	13.1	25	
2,4,6-Trichlorophenol	18	4.0	20.00	0	90.2	50	125	15.98	12.1	25	
2,4-Dichlorophenol	17	5.0	20.00	0	86.4	47	121	15.13	13.3	25	
2,4-Dimethyl phenol	14	5.0	20.00	0	72.0	31	124	12.70	12.6	25	
2,4-Dinitrophenol	51	25	50.00	0	102	23	143	47.55	6.90	25	JY
2,4-Dinitrotoluene	18	5.0	20.00	0	90.7	57	128	15.93	12.9	25	
2,6-Dinitrotoluene	16	5.0	20.00	0	80.7	57	124	14.64	9.75	25	
2-Chloronaphthalene	12	5.0	20.00	0	61.4	40	116	11.26	8.58	25	
2-Chlorophenol	13	5.0	20.00	0	67.2	38	117	12.27	9.10	25	
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	68.6	30	117	12.41	10.0	25	
2-Nitroaniline	15	5.0	20.00	0	74.4	55	127	13.66	8.48	25	
2-Nitrophenol	17	5.0	20.00	0	83.8	47	123	14.92	11.6	25	
3,3´-Dichlorobenzidine	14	20	20.00	0	69.6	27	129	12.84	8.00	25	J
3-Nitroaniline	17	10	20.00	0	85.9	41	128	15.38	11.1	25	
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	59.4	25	120	21.89	8.28	25	
4,6-Dinitro-2-methylphenol	19	10	20.00	0	94.2	44	137	17.19	9.11	25	
4-Bromophenyl phenyl ether	14	5.0	20.00	0	68.1	55	124	12.55	8.18	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	91.3	52	119	16.31	11.3	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	74.4	33	117	13.51	9.72	25	
4-Chlorophenyl phenyl ether	16	5.0	20.00	0	81.6	53	121	14.62	11.0	25	
4-Nitroaniline	14	10	20.00	0	70.1	50	130	12.39	12.3	25	
4-Nitrophenol	18	25	50.00	0	35.3	50	130	14.98	16.4	25	JQ
Benzoic acid	19	25	40.00	0	47.9	50	130	20.75	8.02	25	JQYZ
Benzyl alcohol	11	25	20.00	0	54.9	31	112	9.720	12.2	25	J
Bis(2-chloroethoxy) methane	14	5.0	20.00	0	68.7	48	120	12.61	8.58	25	
Bis(2-chloroethyl) ether	13	5.0	20.00	0	65.3	43	118	11.90	9.22	25	
Bis(2-chloroisopropyl)ether	14	5.0	20.00	0	71.5	37	130	12.79	11.1	25	Z
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	84.9	55	135	15.20	11.1	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCSD-40220**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSS02**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686946**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	17	5.0	20.00	0	82.6	53	134	14.72	11.6	25	
Carbazole	16	5.0	20.00	0	80.6	60	122	14.34	11.7	25	
Di-n-butyl phthalate	16	5.0	20.00	0	80.1	59	127	14.26	11.6	25	
Di-n-octyl phthalate	16	5.0	20.00	0	81.2	51	140	14.55	11.0	25	
Dibenzofuran	15	4.0	20.00	0	75.2	53	118	13.74	8.97	25	
Diethyl phthalate	17	5.0	20.00	0	86.5	56	125	15.66	9.95	25	
Dimethyl phthalate	16	5.0	20.00	0	79.8	45	127	14.44	9.94	25	
Hexachlorobenzene	14	5.0	20.00	0	68.1	53	125	12.60	7.78	25	
Hexachlorobutadiene	11	5.0	20.00	0	53.4	22	124	9.940	7.08	25	
Hexachloroethane	9.0	5.0	20.00	0	45.0	21	115	8.690	3.39	25	
Isophorone	14	5.0	20.00	0	70.6	42	124	13.11	7.49	25	
N-Nitroso-di-n-propylamine	15	5.0	20.00	0	75.6	50	130	13.94	8.06	25	
N-Nitrosodimethylamine	7.2	5.0	20.00	0	36.2	50	130	6.970	3.94	25	Q
N-Nitrosodiphenylamine	13	5.0	20.00	0	65.4	51	123	11.76	10.6	25	Y
Nitrobenzene	15	3.0	20.00	0	74.0	45	121	12.94	13.4	25	
Pentachlorophenol	13	5.0	20.00	0	63.2	35	138	10.95	14.3	25	Y
Phenol	6.9	5.0	20.00	0	34.4	34	121	6.320	8.48	25	
Surr: 2,4,6-Tribromophenol	23		25.00		93.4	43	140		0	25	
Surr: 2-Fluorobiphenyl	21		25.00		83.1	44	119		0	25	
Surr: 2-Fluorophenol	12		25.00		46.2	19	119		0	25	
Surr: Nitrobenzene-d5	22		25.00		87.4	44	120		0	25	
Surr: Phenol-d5	8.4		25.00		33.6	33	122		0	25	
Surr: Terphenyl-d14	24		25.00		95.4	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	1606422-008CMS	Samp Type:	MS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688618

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.098	1.961	0	79.2	50	114				
Aroclor 1260	1.6	0.15	1.961	0	82.9	20	127				
Surr: Tetrachloro-m-xylene	0.062		0.09804		63.5	48	111				
Surr: Decachlorobiphenyl	0.073		0.09804		74.3	47	122				

Sample ID:	1606422-008CMSD	Samp Type:	MSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688619

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.094	1.887	0	83.0	50	114	1.553	0.816	25	
Aroclor 1260	1.7	0.14	1.887	0	90.1	20	127	1.625	4.51	25	
Surr: Tetrachloro-m-xylene	0.062		0.09434		66.1	48	111		0	25	
Surr: Decachlorobiphenyl	0.079		0.09434		83.6	47	122		0	25	

Sample ID:	LCS-40264	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	LCSW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688631

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.7	0.10	2.000	0	83.7	50	114				
Aroclor 1260	1.7	0.15	2.000	0	86.6	20	127				
Surr: Tetrachloro-m-xylene	0.070		0.1000		69.9	48	111				
Surr: Decachlorobiphenyl	0.083		0.1000		83.3	47	122				

Sample ID:	MB-40264	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	PBW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688632

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	**MB-40264**	Samp Type:	**MBLK**	Test Code:	**EPA_608_PCB**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87046**
Client ID:	**PBW**	Batch ID:	**40264**	TestNo:	**SW8082**	**SW3510C**		Analysis Date:	**6/29/2016**	SeqNo:	**1688632**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.094		0.1000		93.7	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		106	40	135				

Sample ID:	**1606422-008CMS**	Samp Type:	**MS**	Test Code:	**SW_8082A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87065**
Client ID:	**ZZZZZZ**	Batch ID:	**40264**	TestNo:	**SW8082**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1688971**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.098	1.961	0	80.4	46	129				
Aroclor 1260	1.6	0.20	1.961	0	82.0	45	134				
Surr: Tetrachloro-m-xylene	0.060		0.09804		61.2	40	135				
Surr: Decachlorobiphenyl	0.071		0.09804		72.1	40	135				

Sample ID:	**1606422-008CMSD**	Samp Type:	**MSD**	Test Code:	**SW_8082A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87065**
Client ID:	**ZZZZZZ**	Batch ID:	**40264**	TestNo:	**SW8082**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1688972**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.7	46	129	1.577	2.27	25	
Aroclor 1260	1.6	0.19	1.887	0	87.3	45	134	1.609	2.41	25	
Surr: Tetrachloro-m-xylene	0.059		0.09434		62.9	40	135		0	25	
Surr: Decachlorobiphenyl	0.073		0.09434		77.7	40	135		0	25	

Sample ID:	**LCS-40264**	Samp Type:	**LCS**	Test Code:	**SW_8082A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87065**
Client ID:	**LCSW**	Batch ID:	**40264**	TestNo:	**SW8082**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1688996**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.8	0.10	2.000	0	91.2	46	129				
Aroclor 1260	1.9	0.20	2.000	0	95.6	45	134				
Surr: Tetrachloro-m-xylene	0.076		0.1000		75.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.4	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	**MB-40264**	Samp Type:	**MBLK**	Test Code:	**SW_8082A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87065**
Client ID:	**PBW**	Batch ID:	**40264**	TestNo:	**SW8082**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1688997**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.082		0.1000		81.7	40	135				
Surr: Decachlorobiphenyl	0.093		0.1000		92.7	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40334**

Sample ID:	LCS-40334	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320
Client ID:	LCSW	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695233

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	210	1.0	200.0	0	106	88	115				G

Sample ID:	MB-40334	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320
Client ID:	PBW	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695234

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	1.0	1.0									UG

Sample ID:	1606739-009CMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320
Client ID:	ZZZZZZ	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695387

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	190	1.0	200.0	0.2600	96.8	88	115				

Sample ID:	1606739-009CMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320
Client ID:	ZZZZZZ	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695388

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	210	1.0	200.0	0.2600	105	88	115	193.8	8.46	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID: **VOA11B LCS2 0626** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSW** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686847**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.0	1.0	10.00	0	79.9	78	124				
1,1,1-Trichloroethane	7.6	1.0	10.00	0	76.5	74	131				
1,1,2,2-Tetrachloroethane	8.8	1.0	10.00	0	88.3	71	121				
1,1,2-Trichloroethane	9.0	1.0	10.00	0	90.5	80	119				
1,1-Dichloroethane	8.6	2.0	10.00	0	86.2	77	125				
1,1-Dichloroethene	8.4	1.0	10.00	0	83.8	71	131				
1,2,3-Trichloropropane	7.5	1.0	10.00	0	75.4	73	122				
1,2-Dibromo-3-chloropropane	7.3	5.0	10.00	0	73.1	62	128				
1,2-Dibromoethane	9.6	1.0	10.00	0	95.5	77	121				
1,2-Dichloroethane	8.1	1.0	10.00	0	80.7	73	128				
1,2-Dichloropropane	8.7	1.0	10.00	0	87.3	78	122				
2-Butanone [MEK]	8.6	10	10.00	0	86.2	56	143				J
2-Hexanone	6.6	2.0	10.00	0	66.5	57	139				Y
Acetone	9.9	10	10.00	0	99.1	39	160				JY
Benzene	9.1	1.0	10.00	0	91.2	79	120				
Bromodichloromethane	7.9	1.0	10.00	0	78.8	79	125				Q
Bromoform	5.8	1.0	10.00	0	58.4	66	130				QY
Carbon disulfide	8.8	1.0	10.00	0	88.0	64	133				
Carbon tetrachloride	7.9	1.0	10.00	0	79.3	72	136				
Chlorobenzene	9.0	1.0	10.00	0	89.8	82	118				
Chlorodibromomethane	6.5	1.0	10.00	0	65.2	74	126				Q
Chloroethane	8.8	2.0	10.00	0	88.0	60	138				
Chloroform	8.4	1.0	10.00	0	84.4	79	124				
Chloromethane	15	1.0	10.00	0	151	50	139				QYB
cis-1,2-Dichloroethene	8.6	1.0	10.00	0	85.5	78	123				
cis-1,3-Dichloropropene	6.8	1.0	10.00	0	67.8	75	124				Q
Dichlorodifluoromethane [Freon-12]	9.6	1.0	10.00	0	96.2	32	152				
Ethylbenzene	8.7	1.0	10.00	0	86.6	79	121				
Methylene chloride	9.8	5.0	10.00	0	98.1	74	124				
Styrene	8.0	1.0	10.00	0	79.8	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID: **VOA11B LCS2 0626** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSW** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686847**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	11	1.0	10.00	0	110	74	129				
Toluene	9.0	1.0	10.00	0	89.5	80	121				
trans-1,2-Dichloroethene	9.0	1.0	10.00	0	89.8	75	124				
trans-1,3-Dichloropropene	8.2	1.0	10.00	0	82.3	73	127				
Trichloroethene	9.3	1.0	10.00	0	92.7	79	123				
Trichlorofluoromethane [Freon-11]	6.6	1.0	10.00	0	66.3	65	141				Y
Vinyl acetate	6.0	5.0	10.00	0	60.5	54	146				
Vinyl chloride	9.1	1.0	10.00	0	90.9	58	137				
Xylene (total)	25	3.0	30.00	0	82.7	79	121				
Surr: 4-Bromofluorobenzene	57		60.00		94.4	85	114				
Surr: Dibromofluoromethane	53		60.00		89.0	80	119				
Surr: Toluene-d8	55		60.00		92.0	89	112				

Sample ID: **VOA11B LCSD2 062** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSS02** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686848**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	7.3	1.0	10.00	0	73.1	78	124	7.990	8.89	25	Q
1,1,1-Trichloroethane	7.5	1.0	10.00	0	74.6	74	131	7.650	2.51	25	
1,1,2,2-Tetrachloroethane	8.6	1.0	10.00	0	85.9	71	121	8.830	2.76	25	
1,1,2-Trichloroethane	9.0	1.0	10.00	0	89.7	80	119	9.050	0.888	25	
1,1-Dichloroethane	8.4	2.0	10.00	0	83.5	77	125	8.620	3.18	25	
1,1-Dichloroethene	7.7	1.0	10.00	0	77.3	71	131	8.380	8.07	25	
1,2,3-Trichloropropane	8.4	1.0	10.00	0	84.0	73	122	7.540	10.8	25	
1,2-Dibromo-3-chloropropane	6.6	5.0	10.00	0	65.6	62	128	7.310	10.8	25	
1,2-Dibromoethane	8.8	1.0	10.00	0	88.5	77	121	9.550	7.61	25	
1,2-Dichloroethane	7.8	1.0	10.00	0	78.3	73	128	8.070	3.02	25	
1,2-Dichloropropane	8.4	1.0	10.00	0	84.1	78	122	8.730	3.73	25	
2-Butanone [MEK]	8.4	10	10.00	0	84.2	56	143	8.620	2.35	25	J
2-Hexanone	6.6	2.0	10.00	0	66.3	57	139	6.650	0.301	25	Y
Acetone	9.4	10	10.00	0	93.8	39	160	9.910	5.50	25	JY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID: **VOA11B LCSD2 062** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSS02** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686848**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.6	1.0	10.00	0	86.1	79	120	9.120	5.75	25	
Bromodichloromethane	7.7	1.0	10.00	0	77.2	79	125	7.880	2.05	25	Q
Bromoform	5.5	1.0	10.00	0	55.1	66	130	5.840	5.81	25	QY
Carbon disulfide	7.7	1.0	10.00	0	77.1	64	133	8.800	13.2	25	
Carbon tetrachloride	7.5	1.0	10.00	0	75.1	72	136	7.930	5.44	25	
Chlorobenzene	8.3	1.0	10.00	0	83.2	82	118	8.980	7.63	25	
Chlorodibromomethane	6.2	1.0	10.00	0	62.5	74	126	6.520	4.23	25	Q
Chloroethane	8.4	2.0	10.00	0	83.5	60	138	8.800	5.25	25	
Chloroform	8.2	1.0	10.00	0	81.8	79	124	8.440	3.13	25	
Chloromethane	14	1.0	10.00	0	142	50	139	15.06	6.02	25	QYB
cis-1,2-Dichloroethene	8.0	1.0	10.00	0	80.3	78	123	8.550	6.27	25	
cis-1,3-Dichloropropene	6.4	1.0	10.00	0	64.5	75	124	6.780	4.99	25	Q
Dichlorodifluoromethane [Freon-12]	8.7	1.0	10.00	0	87.4	32	152	9.620	9.59	25	
Ethylbenzene	8.2	1.0	10.00	0	82.3	79	121	8.660	5.09	25	
Methylene chloride	9.4	5.0	10.00	0	93.7	74	124	9.810	4.59	25	
Styrene	7.5	1.0	10.00	0	74.9	78	123	7.980	6.33	25	Q
Tetrachloroethene	11	1.0	10.00	0	107	74	129	11.04	3.50	25	
Toluene	8.4	1.0	10.00	0	83.6	80	121	8.950	6.82	25	
trans-1,2-Dichloroethene	8.3	1.0	10.00	0	83.3	75	124	8.980	7.51	25	
trans-1,3-Dichloropropene	7.8	1.0	10.00	0	78.0	73	127	8.230	5.36	25	
Trichloroethene	8.5	1.0	10.00	0	85.3	79	123	9.270	8.31	25	
Trichlorofluoromethane [Freon-11]	6.3	1.0	10.00	0	62.6	65	141	6.630	5.74	25	QY
Vinyl acetate	5.8	5.0	10.00	0	57.9	54	146	6.050	4.39	0	
Vinyl chloride	8.5	1.0	10.00	0	85.0	58	137	9.090	6.71	25	
Xylene (total)	23	3.0	30.00	0	78.2	79	121	24.82	5.68	25	Q
Surr: 4-Bromofluorobenzene	56		60.00		94.1	85	114		0	25	
Surr: Dibromofluoromethane	52		60.00		87.2	80	119		0	25	
Surr: Toluene-d8	54		60.00		90.8	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86945**

Sample ID:	VOA11B MBLK2 062	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86945
Client ID:	PBW	Batch ID:	R86945	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1686850

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									U
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									UY
Acetone	10	10									UY
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									UY
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	0.73	1.0									JTY
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	0.56	5.0									J
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86945**

Sample ID:	**VOA11B MBLK2 062**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86945**
Client ID:	**PBW**	Batch ID:	**R86945**	TestNo:	**SW8260B**			Analysis Date:	**6/27/2016**	SeqNo:	**1686850**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									UY
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	46		50.00		91.9	85	114				
Surr: Dibromofluoromethane	41		50.00		81.6	80	119				
Surr: Toluene-d8	44		50.00		87.2	89	112				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID: **VOA10 LCS 062716** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86965**

Client ID: **LCSW** Batch ID: **R86965** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1687436**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10	1.0	10.00	0	102	78	124				
1,1,1-Trichloroethane	9.5	1.0	10.00	0	94.8	74	131				
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	101	71	121				
1,1,2-Trichloroethane	11	1.0	10.00	0	106	80	119				
1,1-Dichloroethane	9.6	2.0	10.00	0	95.9	77	125				
1,1-Dichloroethene	9.4	1.0	10.00	0	94.5	71	131				
1,2,3-Trichloropropane	9.7	1.0	10.00	0	97.4	73	122				
1,2-Dibromo-3-chloropropane	7.4	5.0	10.00	0	74.1	62	128				Y
1,2-Dibromoethane	9.9	1.0	10.00	0	98.7	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	106	73	128				
1,2-Dichloropropane	11	1.0	10.00	0	113	78	122				
2-Butanone [MEK]	11	10	10.00	0	110	56	143				
2-Hexanone	10	2.0	10.00	0	99.9	57	139				
Acetone	16	10	10.00	0	156	39	160				
Benzene	9.4	1.0	10.00	0	94.4	79	120				
Bromodichloromethane	11	1.0	10.00	0	114	79	125				
Bromoform	7.7	1.0	10.00	0	76.9	66	130				
Carbon disulfide	9.2	1.0	10.00	0	92.1	64	133				
Carbon tetrachloride	10	1.0	10.00	0	101	72	136				
Chlorobenzene	10	1.0	10.00	0	101	82	118				
Chlorodibromomethane	11	1.0	10.00	0	109	74	126				Y
Chloroethane	11	2.0	10.00	0	106	60	138				
Chloroform	9.6	1.0	10.00	0	95.5	79	124				
Chloromethane	10	1.0	10.00	0	104	50	139				
cis-1,2-Dichloroethene	9.6	1.0	10.00	0	95.8	78	123				
cis-1,3-Dichloropropene	10	1.0	10.00	0	101	75	124				
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	100	32	152				
Ethylbenzene	9.8	1.0	10.00	0	97.6	79	121				
Methylene chloride	12	5.0	10.00	0	117	74	124				
Styrene	10	1.0	10.00	0	105	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID:	VOA10 LCS 062716	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86965
Client ID:	LCSW	Batch ID:	R86965	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1687436

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	10	1.0	10.00	0	101	74	129				
Toluene	11	1.0	10.00	0	111	80	121				
trans-1,2-Dichloroethene	10	1.0	10.00	0	101	75	124				
trans-1,3-Dichloropropene	10	1.0	10.00	0	103	73	127				
Trichloroethene	10	1.0	10.00	0	103	79	123				
Trichlorofluoromethane [Freon-11]	10	1.0	10.00	0	102	65	141				
Vinyl acetate	11	5.0	10.00	0	106	54	146				
Vinyl chloride	11	1.0	10.00	0	110	58	137				
Xylene (total)	30	3.0	30.00	0	102	79	121				
Surr: 4-Bromofluorobenzene	60		60.00		99.9	85	114				
Surr: Dibromofluoromethane	52		60.00		87.3	80	119				
Surr: Toluene-d8	60		60.00		99.6	89	112				

Sample ID:	VOA10 LCSD 06271	Samp Type:	LCSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86965
Client ID:	LCSS02	Batch ID:	R86965	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1687437

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10	1.0	10.00	0	99.5	78	124	10.21	2.58	25	
1,1,1-Trichloroethane	8.8	1.0	10.00	0	88.1	74	131	9.480	7.33	25	
1,1,2,2-Tetrachloroethane	9.2	1.0	10.00	0	92.4	71	121	10.08	8.70	25	
1,1,2-Trichloroethane	10	1.0	10.00	0	99.6	80	119	10.61	6.32	25	
1,1-Dichloroethane	9.3	2.0	10.00	0	93.0	77	125	9.590	3.07	25	
1,1-Dichloroethene	9.0	1.0	10.00	0	89.6	71	131	9.450	5.32	25	
1,2,3-Trichloropropane	9.0	1.0	10.00	0	90.2	73	122	9.740	7.68	25	
1,2-Dibromo-3-chloropropane	8.0	5.0	10.00	0	80.3	62	128	7.410	8.03	25	Y
1,2-Dibromoethane	9.6	1.0	10.00	0	96.0	77	121	9.870	2.77	25	
1,2-Dichloroethane	10	1.0	10.00	0	102	73	128	10.64	4.62	25	
1,2-Dichloropropane	10	1.0	10.00	0	104	78	122	11.28	8.02	25	
2-Butanone [MEK]	10	10	10.00	0	101	56	143	10.99	8.05	25	
2-Hexanone	10	2.0	10.00	0	101	57	139	9.990	0.698	25	
Acetone	14	10	10.00	0	142	39	160	15.57	9.41	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID:	VOA10 LCSD 06271	Samp Type:	LCSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86965
Client ID:	LCSS02	Batch ID:	R86965	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1687437

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.9	1.0	10.00	0	89.0	79	120	9.440	5.89	25	
Bromodichloromethane	11	1.0	10.00	0	106	79	125	11.35	7.12	25	
Bromoform	6.9	1.0	10.00	0	68.6	66	130	7.690	11.4	25	
Carbon disulfide	8.2	1.0	10.00	0	81.9	64	133	9.210	11.7	25	
Carbon tetrachloride	8.9	1.0	10.00	0	89.3	72	136	10.11	12.4	25	
Chlorobenzene	9.1	1.0	10.00	0	90.8	82	118	10.06	10.2	25	
Chlorodibromomethane	10	1.0	10.00	0	103	74	126	10.94	6.22	25	Y
Chloroethane	10	2.0	10.00	0	101	60	138	10.62	5.52	25	
Chloroform	8.9	1.0	10.00	0	89.4	79	124	9.550	6.60	25	
Chloromethane	9.9	1.0	10.00	0	98.8	50	139	10.45	5.61	25	
cis-1,2-Dichloroethene	9.1	1.0	10.00	0	90.6	78	123	9.580	5.58	25	
cis-1,3-Dichloropropene	9.8	1.0	10.00	0	98.3	75	124	10.14	3.10	25	
Dichlorodifluoromethane [Freon-12]	9.4	1.0	10.00	0	94.4	32	152	10.04	6.16	25	
Ethylbenzene	9.2	1.0	10.00	0	92.2	79	121	9.760	5.69	25	
Methylene chloride	11	5.0	10.00	0	114	74	124	11.73	2.50	25	
Styrene	9.5	1.0	10.00	0	95.1	78	123	10.48	9.70	25	
Tetrachloroethene	9.8	1.0	10.00	0	98.1	74	129	10.08	2.71	25	
Toluene	11	1.0	10.00	0	109	80	121	11.13	2.09	25	
trans-1,2-Dichloroethene	9.6	1.0	10.00	0	95.8	75	124	10.12	5.48	25	
trans-1,3-Dichloropropene	9.9	1.0	10.00	0	99.4	73	127	10.27	3.27	25	
Trichloroethene	9.6	1.0	10.00	0	96.1	79	123	10.28	6.74	25	
Trichlorofluoromethane [Freon-11]	10	1.0	10.00	0	102	65	141	10.22	0.392	25	
Vinyl acetate	9.8	5.0	10.00	0	98.4	54	146	10.64	7.81	0	
Vinyl chloride	11	1.0	10.00	0	106	58	137	11.00	3.52	25	
Xylene (total)	28	3.0	30.00	0	94.3	79	121	30.49	7.52	25	
Surr: 4-Bromofluorobenzene	59		60.00		98.7	85	114		0	25	
Surr: Dibromofluoromethane	51		60.00		85.6	80	119		0	25	
Surr: Toluene-d8	60		60.00		99.7	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID:	VOA10 MBLK 06271	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86965
Client ID:	PBW	Batch ID:	R86965	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1687440

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	10	10									U
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									UY
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	5.0	5.0									U
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86965

Sample ID:	VOA10 MBLK 06271	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86965
Client ID:	PBW	Batch ID:	R86965	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1687440

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	49		50.00		97.0	85	114				
Surr: Dibromofluoromethane	42		50.00		84.0	80	119				
Surr: Toluene-d8	45		50.00		89.8	89	112				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86984

Sample ID: **VOA10 LCS 062816** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/28/2016** RunNo: **86984**

Client ID: **LCSW** Batch ID: **R86984** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687698**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10	1.0	10.00	0	102	78	124				
1,1,1-Trichloroethane	9.8	1.0	10.00	0	97.7	74	131				
1,1,2,2-Tetrachloroethane	9.4	1.0	10.00	0	94.4	71	121				
1,1,2-Trichloroethane	10	1.0	10.00	0	104	80	119				
1,1-Dichloroethane	9.5	1.0	10.00	0	95.3	77	125				
1,1-Dichloroethene	9.1	1.0	10.00	0	91.1	71	131				
1,2,3-Trichloropropane	8.9	1.0	10.00	0	88.6	73	122				
1,2-Dibromo-3-chloropropane	7.6	1.0	10.00	0	75.8	62	128				Y
1,2-Dibromoethane	10	1.0	10.00	0	104	77	121				
1,2-Dichloroethane	10	1.0	10.00	0	101	73	128				
1,2-Dichloropropane	10	1.0	10.00	0	102	78	122				
2-Butanone [MEK]	8.5	10	10.00	0	84.6	56	143				J
2-Hexanone	9.6	2.0	10.00	0	96.1	57	139				
Acetone	8.9	10	10.00	0	88.9	39	160				J
Benzene	9.3	1.0	10.00	0	93.3	79	120				
Bromodichloromethane	11	1.0	10.00	0	108	79	125				
Bromoform	7.4	1.0	10.00	0	73.6	66	130				
Carbon disulfide	9.5	1.0	10.00	0	94.6	64	133				
Carbon tetrachloride	9.7	1.0	10.00	0	97.3	72	136				
Chlorobenzene	9.6	1.0	10.00	0	95.6	82	118				
Chlorodibromomethane	11	1.0	10.00	0	107	74	126				
Chloroethane	10	2.0	10.00	0	100	60	138				
Chloroform	9.7	1.0	10.00	0	97.2	79	124				
Chloromethane	9.1	1.0	10.00	0	90.8	50	139				
cis-1,2-Dichloroethene	9.4	1.0	10.00	0	94.4	78	123				
cis-1,3-Dichloropropene	10	1.0	10.00	0	101	75	124				
Dichlorodifluoromethane [Freon-12]	9.5	1.0	10.00	0	95.0	32	152				
Ethylbenzene	9.6	1.0	10.00	0	95.7	79	121				
Methylene chloride	11	2.0	10.00	0	114	74	124				
Styrene	9.9	1.0	10.00	0	98.7	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86984

Sample ID: **VOA10 LCS 062816** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/28/2016** RunNo: **86984**

Client ID: **LCSW** Batch ID: **R86984** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687698**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	9.8	1.0	10.00	0	98.1	74	129				
Toluene	11	1.0	10.00	0	110	80	121				
trans-1,2-Dichloroethene	10	1.0	10.00	0	101	75	124				
trans-1,3-Dichloropropene	10	1.0	10.00	0	105	73	127				
Trichloroethene	9.5	1.0	10.00	0	95.4	79	123				
Trichlorofluoromethane [Freon-11]	9.5	1.0	10.00	0	95.4	65	141				
Vinyl acetate	9.2	5.0	10.00	0	92.3	54	146				
Vinyl chloride	10	1.0	10.00	0	101	58	137				
Xylene (total)	29	3.0	30.00	0	97.3	79	121				
Surr: 4-Bromofluorobenzene	61		60.00		102	85	114				
Surr: Dibromofluoromethane	56		60.00		93.2	80	119				
Surr: Toluene-d8	60		60.00		100	89	112				

Sample ID: **VOA10 LCSD 06281** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/28/2016** RunNo: **86984**

Client ID: **LCSS02** Batch ID: **R86984** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687699**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.9	1.0	10.00	0	88.6	78	124	10.23	14.4	20	
1,1,1-Trichloroethane	8.3	1.0	10.00	0	83.4	74	131	9.770	15.8	20	
1,1,2,2-Tetrachloroethane	8.4	1.0	10.00	0	84.1	71	121	9.440	11.5	20	
1,1,2-Trichloroethane	9.0	1.0	10.00	0	89.8	80	119	10.37	14.4	20	
1,1-Dichloroethane	8.5	1.0	10.00	0	84.7	77	125	9.530	11.8	20	
1,1-Dichloroethene	8.1	1.0	10.00	0	80.8	71	131	9.110	12.0	20	
1,2,3-Trichloropropane	7.6	1.0	10.00	0	76.4	73	122	8.860	14.8	20	
1,2-Dibromo-3-chloropropane	6.0	1.0	10.00	0	60.5	62	128	7.580	22.5	20	RQY
1,2-Dibromoethane	9.5	1.0	10.00	0	94.8	77	121	10.40	9.26	20	
1,2-Dichloroethane	8.7	1.0	10.00	0	87.4	73	128	10.10	14.4	20	
1,2-Dichloropropane	8.8	1.0	10.00	0	87.7	78	122	10.22	15.3	20	
2-Butanone [MEK]	8.2	10	10.00	0	82.5	56	143	8.460	2.51	20	J
2-Hexanone	8.4	2.0	10.00	0	84.2	57	139	9.610	13.2	20	
Acetone	8.6	10	10.00	0	85.9	39	160	8.890	3.43	20	J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86984

Sample ID:	VOA10 LCSD 06281	Samp Type:	LCSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/28/2016	RunNo:	86984
Client ID:	LCSS02	Batch ID:	R86984	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1687699

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.2	1.0	10.00	0	82.0	79	120	9.330	12.9	20	
Bromodichloromethane	9.2	1.0	10.00	0	92.3	79	125	10.75	15.2	20	
Bromoform	6.5	1.0	10.00	0	64.8	66	130	7.360	12.7	20	Q
Carbon disulfide	7.9	1.0	10.00	0	79.3	64	133	9.460	17.6	20	
Carbon tetrachloride	8.4	1.0	10.00	0	83.8	72	136	9.730	14.9	20	
Chlorobenzene	8.1	1.0	10.00	0	81.1	82	118	9.560	16.4	20	Q
Chlorodibromomethane	9.6	1.0	10.00	0	95.6	74	126	10.72	11.4	20	
Chloroethane	8.2	2.0	10.00	0	81.8	60	138	10.00	20.0	20	R
Chloroform	8.3	1.0	10.00	0	83.4	79	124	9.720	15.3	20	
Chloromethane	8.1	1.0	10.00	0	81.4	50	139	9.080	10.9	20	
cis-1,2-Dichloroethene	8.1	1.0	10.00	0	81.4	78	123	9.440	14.8	20	
cis-1,3-Dichloropropene	8.3	1.0	10.00	0	82.6	75	124	10.08	19.8	20	
Dichlorodifluoromethane [Freon-12]	8.4	1.0	10.00	0	84.2	32	152	9.500	12.1	20	
Ethylbenzene	8.2	1.0	10.00	0	81.7	79	121	9.570	15.8	20	
Methylene chloride	10	2.0	10.00	0	101	74	124	11.35	12.1	20	
Styrene	8.8	1.0	10.00	0	87.7	78	123	9.870	11.8	20	
Tetrachloroethene	9.0	1.0	10.00	0	90.2	74	129	9.810	8.39	20	
Toluene	9.4	1.0	10.00	0	94.0	80	121	11.04	16.0	20	
trans-1,2-Dichloroethene	8.8	1.0	10.00	0	88.4	75	124	10.05	12.8	20	
trans-1,3-Dichloropropene	9.0	1.0	10.00	0	90.4	73	127	10.49	14.8	20	
Trichloroethene	9.2	1.0	10.00	0	91.5	79	123	9.540	4.17	20	
Trichlorofluoromethane [Freon-11]	9.0	1.0	10.00	0	89.9	65	141	9.540	5.94	20	
Vinyl acetate	8.3	5.0	10.00	0	83.3	54	146	9.230	10.3	20	
Vinyl chloride	8.4	1.0	10.00	0	84.2	58	137	10.07	17.8	20	
Xylene (total)	25	3.0	30.00	0	84.1	79	121	29.20	14.6	20	
Surr: 4-Bromofluorobenzene	59		60.00		98.1	85	114		0	20	
Surr: Dibromofluoromethane	53		60.00		87.6	80	119		0	20	
Surr: Toluene-d8	58		60.00		97.4	89	112		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86984**

Sample ID:	**VOA10 MBLK 06281A**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/28/2016**	RunNo:	**86984**
Client ID:	**PBW**	Batch ID:	**R86984**	TestNo:	**SW8260B**			Analysis Date:	**6/28/2016**	SeqNo:	**1687701**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	1.0	1.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	1.0	1.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	1.8	10									J
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	2.0	2.0									U
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86984**

Sample ID:	**VOA10 MBLK 06281A**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/28/2016**	RunNo:	**86984**
Client ID:	**PBW**	Batch ID:	**R86984**	TestNo:	**SW8260B**			Analysis Date:	**6/28/2016**	SeqNo:	**1687701**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	48		50.00		96.0	85	114				
Surr: Dibromofluoromethane	44		50.00		87.2	80	119				
Surr: Toluene-d8	47		50.00		93.6	89	112				

RTI Laboratories - Definitions and Acronyms

WO#: 1606580

Date Reported: 8/26/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

160658

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	061616-03
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
H4-SB01	-	-	N	1	H4-SB01-GW	6/15/16	1055	WG	3	048							2		1		4	
H4-SB01	-	-	FD	1	H4-SB01-GWDUP	↓	1055	↓	3	↓							2		1		3	Field Dup
H4-SB02	-	-	N	1	H4-SB02-GW	↓	1015	↓	3	↓							2		1		3	
H4-SB03	-	-	N	1	H4-SB03-GW	↓	0930	↓	3	↓							2		1		3	

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/16/16	Time: 1200	1. Received By / Company: XFER TO FEDEX	Date: 6/16/16	Time: 1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: RTI Labs	Date: 6-17-16	Time: 09:50

Comments

Shipment Method/Airbill No.: 8105 0202 5624

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

160658

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060616-04
Batch May16

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
H6-SB01	-	-	N	1	H6-SB01-GW	6/15/16	1235	WG	3	049							2		1		8	
H6-SB01	-	-	FD	1	H6-SB01-GWDUP	"	1235	"	3	"							2		1		9	Field Dup.
H6-SB02	-	-	N	1	H6-SB02-GW	"	1315	"	3	"							2		1		10	
H6-SB03	-	-	N	1	H6-SB03-GW	"	1350	"	3	"							2		1		11	

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/16/16	Time: 1200	1. Received By / Company: REFER TO FEDEX
2. Relinquished By / Company	Date	Time	2. Received By / Company
3. Relinquished By / Company	Date	Time	3. Received By / Company: RTI

1. Received By / Company: REFER TO FEDEX	Date: 6/16/16	Time: 1200	
2. Received By / Company	Date	Time	
3. Received By / Company: RTI	Date: 6-17-16	Time: 09:50	

Comments

Shipment Method/Airbill No: 8103 0202 5648

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Chain of Custody

160658

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060616-05
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
MP-SB01	–	–	N	1	MP-SB01-GW	6/14/16	1400	WG	37	050	3			4							1	
Field QC	–	–	TB	1	TB-GW-060416-03	6/14/16	0820	WQ	3	050	3										2	Note Diff. Sampling Dates
AST35-SB01	–	–	N	1	AST35-SB01-GW	6/16/16	0940	WG	7	0503	3			4							3	

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/16/16	Time: 1200	1. Received By / Company: REFER TO FEDEX	Date: 6/16/16	Time: 1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: RTI Labs	Date: 6/17/16	Time: 09:50

Comments

Shipment Method/Airbill No.: 8103 0202 5659

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Cooler: TA21 Client Cooler ID: #098

Temp Blank: 1.9°C

Cooler: Blue Four Client Cooler ID: #050

Temp Blank: 3.9°C

00106

00152

Fed Express Package US Airbill

FedEx Tracking Number 8103 0202 5648

CCC# 0606116-049

Form ID No. 0215 Cooler #049

1 From

Date 6/16/16

Sender's Name Amanda Martin Phone

Company

Address 3101 WILSON BLVD STE 900

Dept/Floor/Suite/Room

City ARLINGTON State VA ZIP 22201-4446

2 Your Internal Billing Reference 604437 3.4.1

CUSTODY SEALS

Date 6/16/16

Signature

Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

Hold Saturday

FedEx Custom address DELIVERED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

ZIP 48150

012365994

CUSTODY SEALS

Date 6/16/16

Signature

8103 0202 5648

4 Express Package Service * To most locations.

Packages up to 150 lbs.

For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

- FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

Saturday Delivery

NOT available for FedEx Standard Overnight

No Signature Required

Package may be left without obtaining a signature for delivery

Does this shipment contain dangerous goods?

No Yes As per attached Shipper's Declaration

Restrictions apply for dangerous goods.

7 Payment Bill to

Sender Acct. No. in Section 1 will be billed.

Total Packages Total

*Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide.

Rev. Date 5/15 • Part #163134 • ©1...

FedEx TRK# 0215 8103 0202 5648

FRI - 17 JUN AA

STANDARD OVERNIGHT

ET CFAA

48150

MI-US

DTW

FID 552995 16JUN16 NSHA - 639C2/30BD/6A08

fedex.com 1800.G

FedEx 1800.463.3339

Cooler: T-22 Client Cooler ID: #049

Temp Blank: 2.8°C

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606585

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606585-001A	TB-SO-061516-01		6/15/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606585-001B	TB-SO-061516-01		6/15/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606585-001C	TB-SO-061516-01		6/15/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606585-002A	STB-SB01-05		6/15/2016 9:55 AM	6/16/2016 9:50 AM	Soil
1606585-002B	STB-SB01-05		6/15/2016 9:55 AM	6/16/2016 9:50 AM	Soil
1606585-002C	STB-SB01-05		6/15/2016 9:55 AM	6/16/2016 9:50 AM	Soil
1606585-002D	STB-SB01-05		6/15/2016 9:55 AM	6/16/2016 9:50 AM	Soil
1606585-003A	STB-SB02-06		6/15/2016 9:37 AM	6/16/2016 9:50 AM	Soil
1606585-003B	STB-SB02-06		6/15/2016 9:37 AM	6/16/2016 9:50 AM	Soil
1606585-003C	STB-SB02-06		6/15/2016 9:37 AM	6/16/2016 9:50 AM	Soil
1606585-003D	STB-SB02-06		6/15/2016 9:37 AM	6/16/2016 9:50 AM	Soil
1606585-004A	STB-SB03-06		6/15/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606585-004B	STB-SB03-06		6/15/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606585-004C	STB-SB03-06		6/15/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606585-004D	STB-SB03-06		6/15/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606585-005A	STB-SB04-06		6/15/2016 10:05 AM	6/16/2016 9:50 AM	Soil
1606585-005B	STB-SB04-06		6/15/2016 10:05 AM	6/16/2016 9:50 AM	Soil
1606585-005C	STB-SB04-06		6/15/2016 10:05 AM	6/16/2016 9:50 AM	Soil
1606585-005D	STB-SB04-06		6/15/2016 10:05 AM	6/16/2016 9:50 AM	Soil
1606585-006A	STB-SB04-06 DUP		6/15/2016 10:05 AM	6/16/2016 9:50 AM	Soil
1606585-006B	STB-SB04-06 DUP		6/15/2016 10:05 AM	6/16/2016 9:50 AM	Soil
1606585-006C	STB-SB04-06 DUP		6/15/2016 10:05 AM	6/16/2016 9:50 AM	Soil
1606585-006D	STB-SB04-06 DUP		6/15/2016 10:05 AM	6/16/2016 9:50 AM	Soil
1606585-007A	STB-SS05-01		6/15/2016 10:30 AM	6/16/2016 9:50 AM	Soil
1606585-007B	STB-SS05-01		6/15/2016 10:30 AM	6/16/2016 9:50 AM	Soil
1606585-007C	STB-SS05-01		6/15/2016 10:30 AM	6/16/2016 9:50 AM	Soil
1606585-007D	STB-SS05-01		6/15/2016 10:30 AM	6/16/2016 9:50 AM	Soil
1606585-008A	STB-SS06-01		6/15/2016 10:20 AM	6/16/2016 9:50 AM	Soil
1606585-008B	STB-SS06-01		6/15/2016 10:20 AM	6/16/2016 9:50 AM	Soil
1606585-008C	STB-SS06-01		6/15/2016 10:20 AM	6/16/2016 9:50 AM	Soil
1606585-008D	STB-SS06-01		6/15/2016 10:20 AM	6/16/2016 9:50 AM	Soil
1606585-009A	STB-SS07-01		6/15/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606585-009B	STB-SS07-01		6/15/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606585-009C	STB-SS07-01		6/15/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606585-009D	STB-SS07-01		6/15/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606585-010A	WDS-SB20-06		6/15/2016 9:15 AM	6/16/2016 9:50 AM	Soil
1606585-010B	WDS-SB20-06		6/15/2016 9:15 AM	6/16/2016 9:50 AM	Soil
1606585-010C	WDS-SB20-06		6/15/2016 9:15 AM	6/16/2016 9:50 AM	Soil
1606585-010D	WDS-SB20-06		6/15/2016 9:15 AM	6/16/2016 9:50 AM	Soil
1606585-011A	H1-SS01-01		6/15/2016 8:40 AM	6/16/2016 9:50 AM	Soil
1606585-011B	H1-SS01-01		6/15/2016 8:40 AM	6/16/2016 9:50 AM	Soil
1606585-011C	H1-SS01-01		6/15/2016 8:40 AM	6/16/2016 9:50 AM	Soil
1606585-011D	H1-SS01-01		6/15/2016 8:40 AM	6/16/2016 9:50 AM	Soil
1606585-012A	H1-SS01-02		6/15/2016 8:50 AM	6/16/2016 9:50 AM	Soil
1606585-012B	H1-SS01-02		6/15/2016 8:50 AM	6/16/2016 9:50 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606585-012C	H1-SS01-02		6/15/2016 8:50 AM	6/16/2016 9:50 AM	Soil
1606585-012D	H1-SS01-02		6/15/2016 8:50 AM	6/16/2016 9:50 AM	Soil
1606585-013A	H1-SS02-01		6/15/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606585-013B	H1-SS02-01		6/15/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606585-013C	H1-SS02-01		6/15/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606585-013D	H1-SS02-01		6/15/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606585-014A	H1-SS02-02		6/15/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606585-014B	H1-SS02-02		6/15/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606585-014C	H1-SS02-02		6/15/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606585-014D	H1-SS02-02		6/15/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606585-015A	H2-SS01-01		6/15/2016 9:40 AM	6/16/2016 9:50 AM	Soil
1606585-015B	H2-SS01-01		6/15/2016 9:40 AM	6/16/2016 9:50 AM	Soil
1606585-015C	H2-SS01-01		6/15/2016 9:40 AM	6/16/2016 9:50 AM	Soil
1606585-015D	H2-SS01-01		6/15/2016 9:40 AM	6/16/2016 9:50 AM	Soil
1606585-016A	H2-SS01-02		6/15/2016 9:50 AM	6/16/2016 9:50 AM	Soil
1606585-016B	H2-SS01-02		6/15/2016 9:50 AM	6/16/2016 9:50 AM	Soil
1606585-016C	H2-SS01-02		6/15/2016 9:50 AM	6/16/2016 9:50 AM	Soil
1606585-016D	H2-SS01-02		6/15/2016 9:50 AM	6/16/2016 9:50 AM	Soil
1606585-017A	H2-SS02-01		6/15/2016 10:00 AM	6/16/2016 9:50 AM	Soil
1606585-017B	H2-SS02-01		6/15/2016 10:00 AM	6/16/2016 9:50 AM	Soil
1606585-017C	H2-SS02-01		6/15/2016 10:00 AM	6/16/2016 9:50 AM	Soil
1606585-017D	H2-SS02-01		6/15/2016 10:00 AM	6/16/2016 9:50 AM	Soil
1606585-018A	H2-SS02-02		6/15/2016 10:10 AM	6/16/2016 9:50 AM	Soil
1606585-018B	H2-SS02-02		6/15/2016 10:10 AM	6/16/2016 9:50 AM	Soil
1606585-018C	H2-SS02-02		6/15/2016 10:10 AM	6/16/2016 9:50 AM	Soil
1606585-018D	H2-SS02-02		6/15/2016 10:10 AM	6/16/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical report revision: 9/16/16: Update LOQ for Benzene for samples 1606585-002A, 003A, -005A, -011C, -012C, -013C, -014C, -015C, -016C, -017C, and -018C.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Percent Moisture - ASTM-D2216
Volatile Organic Compounds - 8260C-ME
Volatile Organic Compounds - 8260C-ME STAR
Volatile Organic Compounds - 8260C
Volatile Organic Compounds - 8260C-STAR

Volatile Organic Compounds (SW-8260):
Acetone result was over calibration for the low level volatile organic compounds analyses for Sample IDs 1606585-018A Data not reported for Acetone for this sample in this analysis.
Samples 1606585-004A, -006A, -007A, -008A, -009A, -011A, -012A, 013A, -014A, -015A, -016A, and -017A were initially analyzed twice for Low-Level Volatile Organic Compounds. Responses for internal standards exceeded method specified criteria. Sample re-analyses were performed using the methanol preserved vials. The results for these samples were reported from the methanol vials with associated elevated reporting limits.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86773, Batch ID R86773:
Sample VOA11B CCV 061816: CCV results for 1,2-Dibromo-3-chloropropane, Acetone, Bromoform and Chlorodibromomethane exceeded the 20% criteria.
Sample VOA11B MBLK 0618: Acetone and Methylene Chloride present in Method Blank at a concentration > 1/2 LOQ.
Sample VOA11B LCS 06181: Recoveries for 1,2-Dibromo-3-chloropropane, Acetone, Bromoform, Chlorodibromomethane exceeded control limits.
Sample VOA11B LCSD 0618: Recoveries for 2-Butanone, Acetone, Bromoform, Methylene chloride, Chlorodibromomethane, and cis-1,3-Dichloropropene exceeded control limits. RPD results for 2-Butanone, and Acetone exceeded control limits.
Sample VOA11B CCVE 061816: Ending CCV results for Acetone exceeded the 50% criteria.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86774, Batch ID R86774:
Sample VOA11B CCV2 061816: CCV results for 2-Butanone, 2-Hexanone, Acetone, Bromoform, Vinyl Acetate exceeded the 20% criteria.
Sample VOA11B MBLK2 061: Acetone present in Method Blank at a concentration >1/2 LOQ.
Sample VOA11B LCS2 0618: Recoveries for Acetone, Bromoform, Methylene chloride exceeded control limits.
Sample VOA11B LCSD2 061: Recoveries for Acetone, Bromoform and Methylene chloride exceeded control limits.
Sample 1606585-018A: Sample analyzed second time due to internal standard excedence in original run.
Sample 1606585-018AMS: Recoveries for several analytes exceeded control limits.
Sample 1606585-018AMSD: Recoveries and RPD results for several analytes exceeded control limits.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 87291, Batch ID R87291:
Sample VOA11B CCV 062116: CCV results for Acetone, Bromoform, Carbon tetrachloride, Vinyl acetate exceeded the 20% criteria.
Sample VOA11B MBLK 0621: Acetone present in Method Blank at a concentration > 1/2 LOQ.
Sample VOA11B LCS 06211: Recoveries for 2-Butanone, Acetone, Methyl acetate exceeded control limits.
Sample VOA11B LCSD 0621: Recoveries for Acetone exceeded control limits. RPD results for 2-Butanone, Acetone and Methyl acetate exceeded control limits.
Sample VOA11B CCVE 062116: Ending CCV results for Vinyl acetate exceeded the 50% criteria.

Analytical Comments for Test SW_8260, Analytical Run No 87014, Batch ID R87014:
Sample VOA11B ICV 062716: ICV results for 1,2-Dibromo-3-chloropropane and Chlorodibromomethane exceeded the 20% criteria.
Sample VOA11B CCV2 062816: CCV results for Chloroethane exceeded the 20% criteria.
Sample VOA11B LCS2 0628: Spike recoveries for 1,1,1,2-Tetrachloroethane, Bromodichloromethane, Chloroethane and Styrene were outside the control limits.
Sample 1606585-018C MS: Recoveries for several analytes exceeded control limits.
Sample 1606585-018C MSD: Recoveries and RPD results for several analytes exceeded control limits.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 87289, Batch ID R87289:
Sample VOA11B LCSD 0618: Recovery for Naphthalene exceeded control limits.

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 9:00:00 AM
Project: Camp Hero
Lab ID: 1606585-001 **Matrix:** Soil
Client Sample ID: TB-SO-061516-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00060	U	0.00029	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
1,1,1-Trichloroethane	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
1,1,2,2-Tetrachloroethane	0.00060	U	0.00053	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
1,1,2-Trichloroethane	0.00060	U	0.00039	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
1,1-Dichloroethane	0.00060	U	0.00015	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
1,1-Dichloroethene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
1,2,3-Trichloropropane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
1,2-Dibromo-3-chloropropane	0.0020	UQ Y	0.0014	0.0020	0.0050	mg/Kg	1	6/19/2016 12:16 AM
1,2-Dibromoethane	0.00060	U	0.00045	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
1,2-Dichloroethane	0.00060	U	0.00014	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
1,2-Dichloropropane	0.00060	U	0.00028	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
2-Butanone [MEK]	0.010	UQ	0.0059	0.010	0.020	mg/Kg	1	6/19/2016 12:16 AM
2-Hexanone	0.0020	U	0.00063	0.0020	0.0050	mg/Kg	1	6/19/2016 12:16 AM
Acetone	0.010	BY Q	0.00091	0.0020	0.010	mg/Kg	1	6/19/2016 12:16 AM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Bromodichloromethane	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Bromoform	0.00060	UQ Y	0.00033	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Carbon disulfide	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Carbon tetrachloride	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Chlorobenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Chlorodibromomethane	0.00060	UQ Y	0.00035	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Chloroethane	0.0010	U	0.00076	0.0010	0.0020	mg/Kg	1	6/19/2016 12:16 AM
Chloroform	0.00060	U	0.00048	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Chloromethane	0.00060	U	0.00034	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
cis-1,2-Dichloroethene	0.00060	U	0.00056	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
cis-1,3-Dichloropropene	0.00060	UQ	0.00016	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Dichlorodifluoromethane [Freon-12]	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Methylene chloride	0.0020	UB Q	0.0011	0.0020	0.0050	mg/Kg	1	6/19/2016 12:16 AM
Styrene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Tetrachloroethene	0.00060	U	0.00032	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Toluene	0.00060	UB	0.00027	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
trans-1,2-Dichloroethene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
trans-1,3-Dichloropropene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Trichloroethene	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Trichlorofluoromethane [Freon-11]	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/19/2016 12:16 AM
Vinyl acetate	0.00060	U	0.00047	0.00060	0.0050	mg/Kg	1	6/19/2016 12:16 AM
Vinyl chloride	0.00060	U	0.00031	0.00060	0.00080	mg/Kg	1	6/19/2016 12:16 AM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg	1	6/19/2016 12:16 AM
Surr: 4-Bromofluorobenzene	85.9			79-119		%Rec	1	6/19/2016 12:16 AM
Surr: Dibromofluoromethane	92.3			78-119		%Rec	1	6/19/2016 12:16 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606585-001	**Matrix:**	Soil
Client Sample ID:	TB-SO-061516-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Toluene-d8	88.7			85-116		%Rec	1	6/19/2016 12:16 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:55:00 AM
Project:	Camp Hero		
Lab ID:	1606585-002	**Matrix:**	Soil
Client Sample ID:	STB-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00053	U	0.00023	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
1,3,5-Trimethylbenzene	0.00053	U	0.00017	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
Benzene	0.00053	U	0.00024	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
Ethylbenzene	0.00053	U	0.00020	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
Isopropylbenzene	0.00053	U	0.00017	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
Methyl tert-butyl ether [MTBE]	0.00053	U	0.00016	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
n-Butylbenzene	0.00053	U	0.00023	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
n-Propylbenzene	0.00053	U	0.00015	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
Naphthalene	0.00053	U	0.00045	0.00053	0.0044	mg/Kg-dry	0.77	6/21/2016 12:37 PM
p-Isopropyltoluene [p-Cymene]	0.00053	U	0.00023	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
sec-Butylbenzene	0.00088	U	0.00059	0.00088	0.0018	mg/Kg-dry	0.77	6/21/2016 12:37 PM
tert-Butylbenzene	0.00053	U	0.00048	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
Toluene	0.00053	U	0.00023	0.00053	0.00088	mg/Kg-dry	0.77	6/21/2016 12:37 PM
Xylene (Total)	0.0016	U	0.00040	0.0016	0.0026	mg/Kg-dry	0.77	6/21/2016 12:37 PM
Surr: 4-Bromofluorobenzene	92.4			79-119		%Rec	0.77	6/21/2016 12:37 PM
Surr: Dibromofluoromethane	105			78-119		%Rec	0.77	6/21/2016 12:37 PM
Surr: Toluene-d8	89.4			85-116		%Rec	0.77	6/21/2016 12:37 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:37:00 AM
Project:	Camp Hero		
Lab ID:	1606585-003	**Matrix:**	Soil
Client Sample ID:	STB-SB02-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00060	U	0.00026	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
1,3,5-Trimethylbenzene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
Isopropylbenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
Methyl tert-butyl ether [MTBE]	0.00060	U	0.00018	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
n-Butylbenzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
n-Propylbenzene	0.00060	U	0.00017	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
Naphthalene	0.00060	U	0.00051	0.00060	0.0050	mg/Kg-dry	0.84	6/21/2016 1:04 PM
p-Isopropyltoluene [p-Cymene]	0.00060	U	0.00026	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
sec-Butylbenzene	0.0010	U	0.00068	0.0010	0.0020	mg/Kg-dry	0.84	6/21/2016 1:04 PM
tert-Butylbenzene	0.00060	U	0.00055	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
Toluene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg-dry	0.84	6/21/2016 1:04 PM
Xylene (Total)	0.0018	U	0.00045	0.0018	0.0030	mg/Kg-dry	0.84	6/21/2016 1:04 PM
Surr: 4-Bromofluorobenzene	91.3			79-119		%Rec	0.84	6/21/2016 1:04 PM
Surr: Dibromofluoromethane	102			78-119		%Rec	0.84	6/21/2016 1:04 PM
Surr: Toluene-d8	89.9			85-116		%Rec	0.84	6/21/2016 1:04 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:30:00 AM
Project:	Camp Hero		
Lab ID:	1606585-004	**Matrix:**	Soil
Client Sample ID:	STB-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-ME-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.071	U	0.020	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
1,3,5-Trimethylbenzene	0.071	U	0.020	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
Benzene	0.071	U	0.019	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
Ethylbenzene	0.071	U	0.025	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
Isopropylbenzene	0.071	U	0.020	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
Methyl tert-butyl ether [MTBE]	0.071	U	0.029	0.071	0.24	mg/Kg-dry	97	6/28/2016 9:18 PM
n-Butylbenzene	0.071	U	0.024	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
n-Propylbenzene	0.071	U	0.026	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
Naphthalene	0.071	U	0.034	0.071	0.59	mg/Kg-dry	97	6/28/2016 9:18 PM
p-Isopropyltoluene [p-Cymene]	0.071	U	0.034	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
sec-Butylbenzene	0.071	U	0.023	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
tert-Butylbenzene	0.071	U	0.021	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
Toluene	0.071	U	0.025	0.071	0.12	mg/Kg-dry	97	6/28/2016 9:18 PM
Xylene (Total)	0.21	U	0.072	0.21	0.36	mg/Kg-dry	97	6/28/2016 9:18 PM
Surr: 4-Bromofluorobenzene	93.9			79-119		%Rec	97	6/28/2016 9:18 PM
Surr: Dibromofluoromethane	94.0			78-119		%Rec	97	6/28/2016 9:18 PM
Surr: Toluene-d8	93.0			85-116		%Rec	97	6/28/2016 9:18 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	18		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:05:00 AM
Project:	Camp Hero		
Lab ID:	1606585-005	**Matrix:**	Soil
Client Sample ID:	STB-SB04-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.00063	U	0.00027	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
1,3,5-Trimethylbenzene	0.00063	U	0.00021	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
Benzene	0.00063	U	0.00028	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
Ethylbenzene	0.00063	U	0.00023	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
Isopropylbenzene	0.00063	U	0.00020	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
Methyl tert-butyl ether [MTBE]	0.00063	U	0.00019	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
n-Butylbenzene	0.00063	U	0.00028	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
n-Propylbenzene	0.00063	U	0.00018	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
Naphthalene	0.00063	UQ	0.00053	0.00063	0.0052	mg/Kg-dry	0.9	6/19/2016 7:43 AM
p-Isopropyltoluene [p-Cymene]	0.00063	U	0.00027	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
sec-Butylbenzene	0.0010	U	0.00071	0.0010	0.0021	mg/Kg-dry	0.9	6/19/2016 7:43 AM
tert-Butylbenzene	0.00063	U	0.00057	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
Toluene	0.00063	UB	0.00028	0.00063	0.0010	mg/Kg-dry	0.9	6/19/2016 7:43 AM
Xylene (Total)	0.0019	U	0.00047	0.0019	0.0031	mg/Kg-dry	0.9	6/19/2016 7:43 AM
Surr: 4-Bromofluorobenzene	95.2			79-119		%Rec	0.9	6/19/2016 7:43 AM
Surr: Dibromofluoromethane	103			78-119		%Rec	0.9	6/19/2016 7:43 AM
Surr: Toluene-d8	88.6			85-116		%Rec	0.9	6/19/2016 7:43 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:05:00 AM
Project:	Camp Hero		
Lab ID:	1606585-006	**Matrix:**	Soil
Client Sample ID:	STB-SB04-06 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-ME-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.072	U	0.020	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
1,3,5-Trimethylbenzene	0.072	U	0.020	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
Benzene	0.072	U	0.019	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
Ethylbenzene	0.072	U	0.025	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
Isopropylbenzene	0.072	U	0.021	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
Methyl tert-butyl ether [MTBE]	0.072	U	0.029	0.072	0.24	mg/Kg-dry	104.6	6/28/2016 9:43 PM
n-Butylbenzene	0.072	U	0.024	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
n-Propylbenzene	0.072	U	0.026	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
Naphthalene	0.072	U	0.035	0.072	0.60	mg/Kg-dry	104.6	6/28/2016 9:43 PM
p-Isopropyltoluene [p-Cymene]	0.072	U	0.034	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
sec-Butylbenzene	0.072	U	0.024	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
tert-Butylbenzene	0.072	U	0.021	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
Toluene	0.13		0.025	0.072	0.12	mg/Kg-dry	104.6	6/28/2016 9:43 PM
Xylene (Total)	0.22	U	0.073	0.22	0.36	mg/Kg-dry	104.6	6/28/2016 9:43 PM
Surr: 4-Bromofluorobenzene	93.9			79-119		%Rec	104.6	6/28/2016 9:43 PM
Surr: Dibromofluoromethane	94.5			78-119		%Rec	104.6	6/28/2016 9:43 PM
Surr: Toluene-d8	94.2			85-116		%Rec	104.6	6/28/2016 9:43 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:30:00 AM
Project:	Camp Hero		
Lab ID:	1606585-007	**Matrix:**	Soil
Client Sample ID:	STB-SS05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-ME-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.066	U	0.018	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
1,3,5-Trimethylbenzene	0.066	U	0.018	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
Benzene	0.066	U	0.018	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
Ethylbenzene	0.066	U	0.023	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
Isopropylbenzene	0.066	U	0.019	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
Methyl tert-butyl ether [MTBE]	0.066	U	0.026	0.066	0.22	mg/Kg-dry	93.5	6/28/2016 10:08 PM
n-Butylbenzene	0.066	U	0.022	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
n-Propylbenzene	0.066	U	0.024	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
Naphthalene	0.066	U	0.032	0.066	0.55	mg/Kg-dry	93.5	6/28/2016 10:08 PM
p-Isopropyltoluene [p-Cymene]	0.066	U	0.031	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
sec-Butylbenzene	0.066	U	0.022	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
tert-Butylbenzene	0.066	U	0.019	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
Toluene	0.066	U	0.023	0.066	0.11	mg/Kg-dry	93.5	6/28/2016 10:08 PM
Xylene (Total)	0.20	U	0.067	0.20	0.33	mg/Kg-dry	93.5	6/28/2016 10:08 PM
Surr: 4-Bromofluorobenzene	92.7			79-119		%Rec	93.5	6/28/2016 10:08 PM
Surr: Dibromofluoromethane	94.6			78-119		%Rec	93.5	6/28/2016 10:08 PM
Surr: Toluene-d8	93.2			85-116		%Rec	93.5	6/28/2016 10:08 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:20:00 AM
Project:	Camp Hero		
Lab ID:	1606585-008	**Matrix:**	Soil
Client Sample ID:	STB-SS06-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-ME-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.069	U	0.019	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
1,3,5-Trimethylbenzene	0.069	U	0.019	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
Benzene	0.069	U	0.019	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
Ethylbenzene	0.069	U	0.024	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
Isopropylbenzene	0.069	U	0.020	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
Methyl tert-butyl ether [MTBE]	0.069	U	0.028	0.069	0.23	mg/Kg-dry	103.4	6/28/2016 10:33 PM
n-Butylbenzene	0.069	U	0.023	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
n-Propylbenzene	0.069	U	0.025	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
Naphthalene	0.069	U	0.033	0.069	0.57	mg/Kg-dry	103.4	6/28/2016 10:33 PM
p-Isopropyltoluene [p-Cymene]	0.069	U	0.033	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
sec-Butylbenzene	0.069	U	0.023	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
tert-Butylbenzene	0.069	U	0.020	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
Toluene	0.069	U	0.024	0.069	0.11	mg/Kg-dry	103.4	6/28/2016 10:33 PM
Xylene (Total)	0.21	U	0.070	0.21	0.34	mg/Kg-dry	103.4	6/28/2016 10:33 PM
Surr: 4-Bromofluorobenzene	93.6			79-119		%Rec	103.4	6/28/2016 10:33 PM
Surr: Dibromofluoromethane	93.9			78-119		%Rec	103.4	6/28/2016 10:33 PM
Surr: Toluene-d8	94.0			85-116		%Rec	103.4	6/28/2016 10:33 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:25:00 AM
Project:	Camp Hero		
Lab ID:	1606585-009	**Matrix:**	Soil
Client Sample ID:	STB-SS07-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-ME-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.062	U	0.017	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
1,3,5-Trimethylbenzene	0.062	U	0.018	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
Benzene	0.062	U	0.017	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
Ethylbenzene	0.062	U	0.022	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
Isopropylbenzene	0.062	U	0.018	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
Methyl tert-butyl ether [MTBE]	0.062	U	0.025	0.062	0.21	mg/Kg-dry	95.6	6/28/2016 10:58 PM
n-Butylbenzene	0.062	U	0.021	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
n-Propylbenzene	0.062	U	0.023	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
Naphthalene	0.062	U	0.030	0.062	0.52	mg/Kg-dry	95.6	6/28/2016 10:58 PM
p-Isopropyltoluene [p-Cymene]	0.062	U	0.030	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
sec-Butylbenzene	0.062	U	0.021	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
tert-Butylbenzene	0.062	U	0.018	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
Toluene	0.062	U	0.022	0.062	0.10	mg/Kg-dry	95.6	6/28/2016 10:58 PM
Xylene (Total)	0.19	U	0.064	0.19	0.31	mg/Kg-dry	95.6	6/28/2016 10:58 PM
Surr: 4-Bromofluorobenzene	92.4			79-119		%Rec	95.6	6/28/2016 10:58 PM
Surr: Dibromofluoromethane	93.8			78-119		%Rec	95.6	6/28/2016 10:58 PM
Surr: Toluene-d8	94.4			85-116		%Rec	95.6	6/28/2016 10:58 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	8.2		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606585-010	**Matrix:**	Soil
Client Sample ID:	WDS-SB20-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00050	U	0.00024	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
1,1,1-Trichloroethane	0.00050	U	0.00017	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
1,1,2,2-Tetrachloroethane	0.00050	U	0.00044	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
1,1,2-Trichloroethane	0.00050	U	0.00032	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
1,1-Dichloroethane	0.00050	U	0.00012	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
1,1-Dichloroethene	0.00050	U	0.00017	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
1,2,3-Trichloropropane	0.00050	U	0.00029	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
1,2-Dibromo-3-chloropropane	0.0017	U	0.0012	0.0017	0.0041	mg/Kg-dry	0.74	6/19/2016 1:26 PM
1,2-Dibromoethane	0.00050	U	0.00037	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
1,2-Dichloroethane	0.00050	U	0.00011	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
1,2-Dichloropropane	0.00050	U	0.00023	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
2-Butanone [MEK]	0.0078	JY	0.0049	0.0083	0.017	mg/Kg-dry	0.74	6/19/2016 1:26 PM
2-Hexanone	0.0017	UY	0.00052	0.0017	0.0041	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Acetone	0.12	YBQ	0.00075	0.0017	0.0083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Benzene	0.00050	U	0.00022	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Bromodichloromethane	0.00050	U	0.00017	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Bromoform	0.00050	UQY	0.00027	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Carbon disulfide	0.00050	U	0.00015	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Carbon tetrachloride	0.00050	U	0.00018	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Chlorobenzene	0.00050	U	0.00016	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Chlorodibromomethane	0.00050	U	0.00029	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Chloroethane	0.00083	U	0.00063	0.00083	0.0017	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Chloroform	0.00050	U	0.00039	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Chloromethane	0.00050	U	0.00028	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
cis-1,2-Dichloroethene	0.00050	U	0.00046	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
cis-1,3-Dichloropropene	0.00050	U	0.00013	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Dichlorodifluoromethane [Freon-12]	0.00050	U	0.00032	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Ethylbenzene	0.00050	U	0.00018	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Methylene chloride	0.0017	UQ	0.00088	0.0017	0.0041	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Styrene	0.00050	U	0.00019	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Tetrachloroethene	0.00050	U	0.00027	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Toluene	0.00050	U	0.00022	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
trans-1,2-Dichloroethene	0.00050	U	0.00015	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
trans-1,3-Dichloropropene	0.00050	U	0.00019	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Trichloroethene	0.00050	U	0.00031	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Trichlorofluoromethane [Freon-11]	0.00050	U	0.00019	0.00050	0.00083	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Vinyl acetate	0.00050	UY	0.00039	0.00050	0.0041	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Vinyl chloride	0.00050	U	0.00026	0.00050	0.00066	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Xylene (Total)	0.0015	U	0.00038	0.0015	0.0025	mg/Kg-dry	0.74	6/19/2016 1:26 PM
Surr: 4-Bromofluorobenzene	94.3			79-119		%Rec	0.74	6/19/2016 1:26 PM
Surr: Dibromofluoromethane	103			78-119		%Rec	0.74	6/19/2016 1:26 PM
Surr: Toluene-d8	95.5			85-116		%Rec	0.74	6/19/2016 1:26 PM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606585-010	**Matrix:**	Soil
Client Sample ID:	WDS-SB20-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:40:00 AM
Project:	Camp Hero		
Lab ID:	1606585-011	**Matrix:**	Soil
Client Sample ID:	H1-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.12	UQ	0.049	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
1,1,1-Trichloroethane	0.12	U	0.034	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
1,1,2,2-Tetrachloroethane	0.12	U	0.063	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
1,1,2-Trichloroethane	0.12	U	0.043	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
1,1-Dichloroethane	0.12	U	0.043	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
1,1-Dichloroethene	0.12	U	0.044	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
1,2,3-Trichloropropane	0.12	U	0.096	0.12	0.41	mg/Kg-dry	118.5	6/28/2016 11:22 PM
1,2-Dibromo-3-chloropropane	0.20	UZ	0.17	0.20	0.41	mg/Kg-dry	118.5	6/28/2016 11:22 PM
1,2-Dibromoethane	0.12	U	0.047	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
1,2-Dichloroethane	0.12	U	0.038	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
1,2-Dichloropropane	0.12	U	0.055	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
2-Butanone [MEK]	1.0	U	0.14	1.0	2.0	mg/Kg-dry	118.5	6/28/2016 11:22 PM
2-Hexanone	0.12	U	0.069	0.12	1.0	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Acetone	0.60	J	0.11	0.82	1.0	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Benzene	0.12	U	0.033	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Bromodichloromethane	0.12	UQ	0.032	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Bromoform	0.12	U	0.043	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Carbon disulfide	0.12	U	0.093	0.12	0.41	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Carbon tetrachloride	0.12	U	0.039	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Chlorobenzene	0.12	U	0.035	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Chlorodibromomethane	0.12	UZ	0.034	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Chloroethane	0.82	UQ Y	0.37	0.82	1.0	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Chloroform	0.12	U	0.034	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Chloromethane	0.24		0.046	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
cis-1,2-Dichloroethene	0.12	U	0.044	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
cis-1,3-Dichloropropene	0.12	U	0.029	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Dichlorodifluoromethane [Freon-12]	0.12	U	0.040	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Ethylbenzene	0.12	U	0.043	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Methylene chloride	0.098	J	0.089	0.12	0.41	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Styrene	0.12	UQ	0.032	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Tetrachloroethene	0.12	U	0.048	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Toluene	0.12	U	0.042	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
trans-1,2-Dichloroethene	0.12	U	0.033	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
trans-1,3-Dichloropropene	0.12	U	0.041	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Trichloroethene	0.12	U	0.078	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Trichlorofluoromethane [Freon-11]	0.12	U	0.041	0.12	0.20	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Vinyl acetate	0.12	U	0.084	0.12	5.1	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Vinyl chloride	0.12	U	0.040	0.12	0.16	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Xylene (Total)	0.31	U	0.12	0.31	0.61	mg/Kg-dry	118.5	6/28/2016 11:22 PM
Surr: 4-Bromofluorobenzene	92.3			79-119		%Rec	118.5	6/28/2016 11:22 PM
Surr: Dibromofluoromethane	94.3			78-119		%Rec	118.5	6/28/2016 11:22 PM
Surr: Toluene-d8	93.9			85-116		%Rec	118.5	6/28/2016 11:22 PM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:40:00 AM
Project:	Camp Hero		
Lab ID:	1606585-011	**Matrix:**	Soil
Client Sample ID:	H1-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	42		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606585-012	**Matrix:**	Soil
Client Sample ID:	H1-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.11	UQ	0.046	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
1,1,1-Trichloroethane	0.11	U	0.031	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
1,1,2,2-Tetrachloroethane	0.11	U	0.058	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
1,1,2-Trichloroethane	0.11	U	0.040	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
1,1-Dichloroethane	0.11	U	0.040	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
1,1-Dichloroethene	0.11	U	0.041	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
1,2,3-Trichloropropane	0.11	U	0.089	0.11	0.38	mg/Kg-dry	129.1	6/28/2016 11:47 PM
1,2-Dibromo-3-chloropropane	0.19	UZ	0.16	0.19	0.38	mg/Kg-dry	129.1	6/28/2016 11:47 PM
1,2-Dibromoethane	0.11	U	0.044	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
1,2-Dichloroethane	0.11	U	0.035	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
1,2-Dichloropropane	0.11	U	0.052	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
2-Butanone [MEK]	0.95	U	0.13	0.95	1.9	mg/Kg-dry	129.1	6/28/2016 11:47 PM
2-Hexanone	0.11	U	0.065	0.11	0.95	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Acetone	0.18	J	0.10	0.76	0.95	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Benzene	0.11	U	0.031	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Bromodichloromethane	0.11	UQ	0.030	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Bromoform	0.11	U	0.040	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Carbon disulfide	0.11	U	0.087	0.11	0.38	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Carbon tetrachloride	0.11	U	0.037	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Chlorobenzene	0.11	U	0.033	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Chlorodibromomethane	0.11	UZ	0.032	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Chloroethane	0.76	UYQ	0.34	0.76	0.95	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Chloroform	0.11	U	0.031	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Chloromethane	0.23		0.043	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
cis-1,2-Dichloroethene	0.11	U	0.041	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
cis-1,3-Dichloropropene	0.11	U	0.027	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Dichlorodifluoromethane [Freon-12]	0.11	U	0.037	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Ethylbenzene	0.11	U	0.040	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Methylene chloride	0.090	J	0.083	0.11	0.38	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Styrene	0.11	UQ	0.030	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Tetrachloroethene	0.11	U	0.045	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Toluene	0.11	U	0.039	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
trans-1,2-Dichloroethene	0.11	U	0.031	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
trans-1,3-Dichloropropene	0.11	U	0.039	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Trichloroethene	0.11	U	0.073	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Trichlorofluoromethane [Freon-11]	0.11	U	0.038	0.11	0.19	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Vinyl acetate	0.11	U	0.078	0.11	4.8	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Vinyl chloride	0.11	U	0.037	0.11	0.15	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Xylene (Total)	0.29	U	0.12	0.29	0.57	mg/Kg-dry	129.1	6/28/2016 11:47 PM
Surr: 4-Bromofluorobenzene	92.9			79-119		%Rec	129.1	6/28/2016 11:47 PM
Surr: Dibromofluoromethane	92.8			78-119		%Rec	129.1	6/28/2016 11:47 PM
Surr: Toluene-d8	93.3			85-116		%Rec	129.1	6/28/2016 11:47 PM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606585-012	**Matrix:**	Soil
Client Sample ID:	H1-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	32		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606585-013	**Matrix:**	Soil
Client Sample ID:	H1-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.082	UQ	0.033	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
1,1,1-Trichloroethane	0.082	U	0.022	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
1,1,2,2-Tetrachloroethane	0.082	U	0.042	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
1,1,2-Trichloroethane	0.082	U	0.029	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
1,1-Dichloroethane	0.082	U	0.028	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
1,1-Dichloroethene	0.082	U	0.029	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
1,2,3-Trichloropropane	0.082	U	0.064	0.082	0.27	mg/Kg-dry	101.2	6/29/2016 12:12 AM
1,2-Dibromo-3-chloropropane	0.14	UZ	0.12	0.14	0.27	mg/Kg-dry	101.2	6/29/2016 12:12 AM
1,2-Dibromoethane	0.082	U	0.032	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
1,2-Dichloroethane	0.082	U	0.025	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
1,2-Dichloropropane	0.082	U	0.037	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
2-Butanone [MEK]	0.68	U	0.092	0.68	1.4	mg/Kg-dry	101.2	6/29/2016 12:12 AM
2-Hexanone	0.082	U	0.046	0.082	0.68	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Acetone	0.31	J	0.074	0.54	0.68	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Benzene	0.082	U	0.022	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Bromodichloromethane	0.082	UQ	0.022	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Bromoform	0.082	U	0.029	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Carbon disulfide	0.082	U	0.062	0.082	0.27	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Carbon tetrachloride	0.082	U	0.026	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Chlorobenzene	0.082	U	0.023	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Chlorodibromomethane	0.082	UZ	0.023	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Chloroethane	0.54	UYQ	0.24	0.54	0.68	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Chloroform	0.082	U	0.022	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Chloromethane	0.14		0.030	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
cis-1,2-Dichloroethene	0.082	U	0.029	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
cis-1,3-Dichloropropene	0.082	U	0.019	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Dichlorodifluoromethane [Freon-12]	0.082	U	0.027	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Ethylbenzene	0.082	U	0.028	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Methylene chloride	0.14	J	0.059	0.082	0.27	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Styrene	0.082	UQ	0.022	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Tetrachloroethene	0.082	U	0.032	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Toluene	0.082	U	0.028	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
trans-1,2-Dichloroethene	0.082	U	0.022	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
trans-1,3-Dichloropropene	0.082	U	0.028	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Trichloroethene	0.082	U	0.052	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Trichlorofluoromethane [Freon-11]	0.082	U	0.027	0.082	0.14	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Vinyl acetate	0.082	U	0.056	0.082	3.4	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Vinyl chloride	0.082	U	0.027	0.082	0.11	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Xylene (Total)	0.20	U	0.083	0.20	0.41	mg/Kg-dry	101.2	6/29/2016 12:12 AM
Surr: 4-Bromofluorobenzene	94.0			79-119		%Rec	101.2	6/29/2016 12:12 AM
Surr: Dibromofluoromethane	93.2			78-119		%Rec	101.2	6/29/2016 12:12 AM
Surr: Toluene-d8	94.1			85-116		%Rec	101.2	6/29/2016 12:12 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606585-013	**Matrix:**	Soil
Client Sample ID:	H1-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	26		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606585-014	**Matrix:**	Soil
Client Sample ID:	H1-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.073	UQ	0.029	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
1,1,1-Trichloroethane	0.073	U	0.020	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
1,1,2,2-Tetrachloroethane	0.073	U	0.037	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
1,1,2-Trichloroethane	0.073	U	0.026	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
1,1-Dichloroethane	0.073	U	0.025	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
1,1-Dichloroethene	0.073	U	0.026	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
1,2,3-Trichloropropane	0.073	U	0.057	0.073	0.24	mg/Kg-dry	97.7	6/29/2016 12:37 AM
1,2-Dibromo-3-chloropropane	0.12	UZ	0.10	0.12	0.24	mg/Kg-dry	97.7	6/29/2016 12:37 AM
1,2-Dibromoethane	0.073	U	0.028	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
1,2-Dichloroethane	0.073	U	0.022	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
1,2-Dichloropropane	0.073	U	0.033	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
2-Butanone [MEK]	0.61	U	0.082	0.61	1.2	mg/Kg-dry	97.7	6/29/2016 12:37 AM
2-Hexanone	0.073	U	0.041	0.073	0.61	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Acetone	0.49	U	0.066	0.49	0.61	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Benzene	0.073	U	0.020	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Bromodichloromethane	0.073	UQ	0.019	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Bromoform	0.073	U	0.026	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Carbon disulfide	0.073	U	0.055	0.073	0.24	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Carbon tetrachloride	0.073	U	0.023	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Chlorobenzene	0.073	U	0.021	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Chlorodibromomethane	0.073	UZ	0.020	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Chloroethane	0.49	UYQ	0.22	0.49	0.61	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Chloroform	0.073	U	0.020	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Chloromethane	0.20		0.027	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
cis-1,2-Dichloroethene	0.073	U	0.026	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
cis-1,3-Dichloropropene	0.073	U	0.017	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Dichlorodifluoromethane [Freon-12]	0.073	U	0.024	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Ethylbenzene	0.073	U	0.025	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Methylene chloride	0.067	J	0.053	0.073	0.24	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Styrene	0.073	UQ	0.019	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Tetrachloroethene	0.073	U	0.028	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Toluene	0.073	U	0.025	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
trans-1,2-Dichloroethene	0.073	U	0.020	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
trans-1,3-Dichloropropene	0.073	U	0.025	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Trichloroethene	0.073	U	0.047	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Trichlorofluoromethane [Freon-11]	0.073	U	0.024	0.073	0.12	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Vinyl acetate	0.073	U	0.050	0.073	3.0	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Vinyl chloride	0.073	U	0.024	0.073	0.097	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Xylene (Total)	0.18	U	0.074	0.18	0.36	mg/Kg-dry	97.7	6/29/2016 12:37 AM
Surr: 4-Bromofluorobenzene	91.9			79-119		%Rec	97.7	6/29/2016 12:37 AM
Surr: Dibromofluoromethane	93.3			78-119		%Rec	97.7	6/29/2016 12:37 AM
Surr: Toluene-d8	93.8			85-116		%Rec	97.7	6/29/2016 12:37 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606585-014	**Matrix:**	Soil
Client Sample ID:	H1-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	20		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606585-015	**Matrix:**	Soil
Client Sample ID:	H2-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.060	UQ	0.024	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
1,1,1-Trichloroethane	0.060	U	0.016	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
1,1,2,2-Tetrachloroethane	0.060	U	0.030	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
1,1,2-Trichloroethane	0.060	U	0.021	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
1,1-Dichloroethane	0.060	U	0.021	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
1,1-Dichloroethene	0.060	U	0.021	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
1,2,3-Trichloropropane	0.060	U	0.047	0.060	0.20	mg/Kg-dry	87.8	6/29/2016 1:02 AM
1,2-Dibromo-3-chloropropane	0.10	UZ	0.085	0.10	0.20	mg/Kg-dry	87.8	6/29/2016 1:02 AM
1,2-Dibromoethane	0.060	U	0.023	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
1,2-Dichloroethane	0.060	U	0.018	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
1,2-Dichloropropane	0.060	U	0.027	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
2-Butanone [MEK]	0.50	U	0.068	0.50	1.0	mg/Kg-dry	87.8	6/29/2016 1:02 AM
2-Hexanone	0.060	U	0.034	0.060	0.50	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Acetone	0.40	U	0.054	0.40	0.50	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Benzene	0.060	U	0.016	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Bromodichloromethane	0.060	UQ	0.016	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Bromoform	0.060	U	0.021	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Carbon disulfide	0.060	U	0.045	0.060	0.20	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Carbon tetrachloride	0.060	U	0.019	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Chlorobenzene	0.060	U	0.017	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Chlorodibromomethane	0.060	UZ	0.017	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Chloroethane	0.40	UYQ	0.18	0.40	0.50	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Chloroform	0.060	U	0.016	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Chloromethane	0.12		0.022	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
cis-1,2-Dichloroethene	0.060	U	0.021	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
cis-1,3-Dichloropropene	0.060	U	0.014	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Dichlorodifluoromethane [Freon-12]	0.060	U	0.020	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Ethylbenzene	0.060	U	0.021	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Methylene chloride	0.061	J	0.043	0.060	0.20	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Styrene	0.060	UQ	0.016	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Tetrachloroethene	0.060	U	0.023	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Toluene	0.060	U	0.021	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
trans-1,2-Dichloroethene	0.060	U	0.016	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
trans-1,3-Dichloropropene	0.060	U	0.020	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Trichloroethene	0.060	U	0.038	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Trichlorofluoromethane [Freon-11]	0.060	U	0.020	0.060	0.10	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Vinyl acetate	0.060	U	0.041	0.060	2.5	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Vinyl chloride	0.060	U	0.020	0.060	0.080	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Xylene (Total)	0.15	U	0.061	0.15	0.30	mg/Kg-dry	87.8	6/29/2016 1:02 AM
Surr: 4-Bromofluorobenzene	91.7			79-119		%Rec	87.8	6/29/2016 1:02 AM
Surr: Dibromofluoromethane	94.1			78-119		%Rec	87.8	6/29/2016 1:02 AM
Surr: Toluene-d8	93.7			85-116		%Rec	87.8	6/29/2016 1:02 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606585-015	**Matrix:**	Soil
Client Sample ID:	H2-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:50:00 AM
Project:	Camp Hero		
Lab ID:	1606585-016	**Matrix:**	Soil
Client Sample ID:	H2-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.058	UQ	0.023	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
1,1,1-Trichloroethane	0.058	U	0.016	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
1,1,2,2-Tetrachloroethane	0.058	U	0.030	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
1,1,2-Trichloroethane	0.058	U	0.021	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
1,1-Dichloroethane	0.058	U	0.020	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
1,1-Dichloroethene	0.058	U	0.021	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
1,2,3-Trichloropropane	0.058	U	0.046	0.058	0.19	mg/Kg-dry	88.2	6/29/2016 1:27 AM
1,2-Dibromo-3-chloropropane	0.097	UZ	0.083	0.097	0.19	mg/Kg-dry	88.2	6/29/2016 1:27 AM
1,2-Dibromoethane	0.058	U	0.023	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
1,2-Dichloroethane	0.058	U	0.018	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
1,2-Dichloropropane	0.058	U	0.026	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
2-Butanone [MEK]	0.49	U	0.066	0.49	0.97	mg/Kg-dry	88.2	6/29/2016 1:27 AM
2-Hexanone	0.058	U	0.033	0.058	0.49	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Acetone	0.39	U	0.053	0.39	0.49	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Benzene	0.058	U	0.016	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Bromodichloromethane	0.058	UQ	0.015	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Bromoform	0.058	U	0.020	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Carbon disulfide	0.058	U	0.044	0.058	0.19	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Carbon tetrachloride	0.058	U	0.019	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Chlorobenzene	0.058	U	0.017	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Chlorodibromomethane	0.058	UZ	0.016	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Chloroethane	0.39	UYQ	0.17	0.39	0.49	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Chloroform	0.058	U	0.016	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Chloromethane	0.13		0.022	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
cis-1,2-Dichloroethene	0.058	U	0.021	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
cis-1,3-Dichloropropene	0.058	U	0.014	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Dichlorodifluoromethane [Freon-12]	0.058	U	0.019	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Ethylbenzene	0.058	U	0.020	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Methylene chloride	0.057	J	0.042	0.058	0.19	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Styrene	0.058	UQ	0.015	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Tetrachloroethene	0.058	U	0.023	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Toluene	0.058	U	0.020	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
trans-1,2-Dichloroethene	0.058	U	0.016	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
trans-1,3-Dichloropropene	0.058	U	0.020	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Trichloroethene	0.058	U	0.037	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Trichlorofluoromethane [Freon-11]	0.058	U	0.019	0.058	0.097	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Vinyl acetate	0.058	U	0.040	0.058	2.4	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Vinyl chloride	0.058	U	0.019	0.058	0.078	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Xylene (Total)	0.15	U	0.060	0.15	0.29	mg/Kg-dry	88.2	6/29/2016 1:27 AM
Surr: 4-Bromofluorobenzene	92.3			79-119		%Rec	88.2	6/29/2016 1:27 AM
Surr: Dibromofluoromethane	93.4			78-119		%Rec	88.2	6/29/2016 1:27 AM
Surr: Toluene-d8	94.3			85-116		%Rec	88.2	6/29/2016 1:27 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:50:00 AM
Project:	Camp Hero		
Lab ID:	1606585-016	**Matrix:**	Soil
Client Sample ID:	H2-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.5		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:00:00 AM
Project:	Camp Hero		
Lab ID:	1606585-017	**Matrix:**	Soil
Client Sample ID:	H2-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.066	UQ	0.027	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
1,1,1-Trichloroethane	0.066	U	0.018	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
1,1,2,2-Tetrachloroethane	0.066	U	0.034	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
1,1,2-Trichloroethane	0.066	U	0.023	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
1,1-Dichloroethane	0.066	U	0.023	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
1,1-Dichloroethene	0.066	U	0.024	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
1,2,3-Trichloropropane	0.066	U	0.052	0.066	0.22	mg/Kg-dry	96.6	6/29/2016 1:52 AM
1,2-Dibromo-3-chloropropane	0.11	UZ	0.094	0.11	0.22	mg/Kg-dry	96.6	6/29/2016 1:52 AM
1,2-Dibromoethane	0.066	U	0.026	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
1,2-Dichloroethane	0.066	U	0.020	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
1,2-Dichloropropane	0.066	U	0.030	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
2-Butanone [MEK]	0.55	U	0.075	0.55	1.1	mg/Kg-dry	96.6	6/29/2016 1:52 AM
2-Hexanone	0.066	U	0.038	0.066	0.55	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Acetone	0.073	J	0.060	0.44	0.55	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Benzene	0.066	U	0.018	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Bromodichloromethane	0.066	UQ	0.017	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Bromoform	0.066	U	0.023	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Carbon disulfide	0.066	U	0.050	0.066	0.22	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Carbon tetrachloride	0.066	U	0.021	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Chlorobenzene	0.066	U	0.019	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Chlorodibromomethane	0.066	UZ	0.018	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Chloroethane	0.44	UYQ	0.20	0.44	0.55	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Chloroform	0.066	U	0.018	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Chloromethane	0.18		0.025	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
cis-1,2-Dichloroethene	0.066	U	0.024	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
cis-1,3-Dichloropropene	0.066	U	0.016	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Dichlorodifluoromethane [Freon-12]	0.066	U	0.022	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Ethylbenzene	0.066	U	0.023	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Methylene chloride	0.059	J	0.048	0.066	0.22	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Styrene	0.066	UQ	0.018	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Tetrachloroethene	0.066	U	0.026	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Toluene	0.066	U	0.023	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
trans-1,2-Dichloroethene	0.066	U	0.018	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
trans-1,3-Dichloropropene	0.066	U	0.022	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Trichloroethene	0.066	U	0.042	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Trichlorofluoromethane [Freon-11]	0.066	U	0.022	0.066	0.11	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Vinyl acetate	0.066	U	0.045	0.066	2.8	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Vinyl chloride	0.066	U	0.022	0.066	0.088	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Xylene (Total)	0.17	U	0.067	0.17	0.33	mg/Kg-dry	96.6	6/29/2016 1:52 AM
Surr: 4-Bromofluorobenzene	93.0			79-119		%Rec	96.6	6/29/2016 1:52 AM
Surr: Dibromofluoromethane	92.7			78-119		%Rec	96.6	6/29/2016 1:52 AM
Surr: Toluene-d8	93.9			85-116		%Rec	96.6	6/29/2016 1:52 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:00:00 AM
Project:	Camp Hero		
Lab ID:	1606585-017	**Matrix:**	Soil
Client Sample ID:	H2-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 10:10:00 AM
Project: Camp Hero
Lab ID: 1606585-018 **Matrix:** Soil
Client Sample ID: H2-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00059	UX	0.00028	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
1,1,1-Trichloroethane	0.00059	U	0.00021	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
1,1,2,2-Tetrachloroethane	0.00059	UX	0.00052	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
1,1,2-Trichloroethane	0.00059	UX	0.00039	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
1,1-Dichloroethane	0.00059	U	0.00015	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
1,1-Dichloroethene	0.00059	U	0.00020	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
1,2,3-Trichloropropane	0.00059	UX	0.00035	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
1,2-Dibromo-3-chloropropane	0.0020	UX	0.0014	0.0020	0.0049	mg/Kg-dry	0.85	6/19/2016 8:02 PM
1,2-Dibromoethane	0.00059	UX	0.00044	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
1,2-Dichloroethane	0.00059	U	0.00013	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
1,2-Dichloropropane	0.00059	U	0.00027	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
2-Butanone [MEK]	0.013	JYX	0.0059	0.0099	0.020	mg/Kg-dry	0.85	6/19/2016 8:02 PM
2-Hexanone	0.0020	UYX	0.00062	0.0020	0.0049	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Acetone	0.22	JYBXQ	0.00090	0.0020	0.0099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Benzene	0.00059	UX	0.00027	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Bromodichloromethane	0.00059	U	0.00020	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Bromoform	0.00059	UQXY	0.00032	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Carbon disulfide	0.00059	U	0.00018	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Carbon tetrachloride	0.00059	U	0.00021	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Chlorobenzene	0.00059	UX	0.00019	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Chlorodibromomethane	0.00059	UX	0.00034	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Chloroethane	0.00099	U	0.00075	0.00099	0.0020	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Chloroform	0.00059	U	0.00047	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Chloromethane	0.00059	U	0.00034	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
cis-1,2-Dichloroethene	0.00059	U	0.00055	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
cis-1,3-Dichloropropene	0.00059	UX	0.00016	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Dichlorodifluoromethane [Freon-12]	0.00059	U	0.00038	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Ethylbenzene	0.00059	UX	0.00022	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Methylene chloride	0.0017	JXQ	0.0010	0.0020	0.0049	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Styrene	0.00059	UX	0.00023	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Tetrachloroethene	0.00059	UX	0.00032	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Toluene	0.00059	UX	0.00026	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
trans-1,2-Dichloroethene	0.00059	U	0.00018	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
trans-1,3-Dichloropropene	0.00059	UX	0.00023	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Trichloroethene	0.00059	UX	0.00038	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Trichlorofluoromethane [Freon-11]	0.00059	U	0.00022	0.00059	0.00099	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Vinyl acetate	0.00059	UY	0.00047	0.00059	0.0049	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Vinyl chloride	0.00059	U	0.00031	0.00059	0.00079	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Xylene (Total)	0.0018	UX	0.00045	0.0018	0.0030	mg/Kg-dry	0.85	6/19/2016 8:02 PM
Surr: 4-Bromofluorobenzene	93.7			79-119		%Rec	0.85	6/19/2016 8:02 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:10:00 AM
Project:	Camp Hero		
Lab ID:	1606585-018	**Matrix:**	Soil
Client Sample ID:	H2-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	102			78-119		%Rec	0.85	6/19/2016 8:02 PM
Surr: Toluene-d8	88.6			85-116		%Rec	0.85	6/19/2016 8:02 PM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.061	UQX	0.025	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
1,1,1-Trichloroethane	0.061	U	0.017	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
1,1,2,2-Tetrachloroethane	0.061	U	0.031	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
1,1,2-Trichloroethane	0.061	U	0.022	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
1,1-Dichloroethane	0.061	U	0.021	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
1,1-Dichloroethene	0.061	U	0.022	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
1,2,3-Trichloropropane	0.061	U	0.048	0.061	0.20	mg/Kg-dry	87.8	6/29/2016 2:17 AM
1,2-Dibromo-3-chloropropane	0.10	UZ	0.087	0.10	0.20	mg/Kg-dry	87.8	6/29/2016 2:17 AM
1,2-Dibromoethane	0.061	UX	0.024	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
1,2-Dichloroethane	0.061	U	0.019	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
1,2-Dichloropropane	0.061	U	0.028	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
2-Butanone [MEK]	0.51	U	0.069	0.51	1.0	mg/Kg-dry	87.8	6/29/2016 2:17 AM
2-Hexanone	0.061	U	0.035	0.061	0.51	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Acetone	0.41	U	0.055	0.41	0.51	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Benzene	0.061	U	0.017	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Bromodichloromethane	0.061	UQX	0.016	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Bromoform	0.061	U	0.021	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Carbon disulfide	0.061	U	0.046	0.061	0.20	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Carbon tetrachloride	0.061	U	0.020	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Chlorobenzene	0.061	U	0.018	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Chlorodibromomethane	0.061	UZ	0.017	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Chloroethane	0.41	UYQX	0.18	0.41	0.51	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Chloroform	0.061	U	0.017	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Chloromethane	0.12		0.023	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
cis-1,2-Dichloroethene	0.061	U	0.022	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
cis-1,3-Dichloropropene	0.061	UX	0.015	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Dichlorodifluoromethane [Freon-12]	0.061	U	0.020	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Ethylbenzene	0.061	U	0.021	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Methylene chloride	0.070	J	0.044	0.061	0.20	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Styrene	0.061	UQX	0.016	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Tetrachloroethene	0.061	U	0.024	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Toluene	0.061	U	0.021	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
trans-1,2-Dichloroethene	0.061	U	0.016	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
trans-1,3-Dichloropropene	0.061	UX	0.021	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Trichloroethene	0.061	U	0.039	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Trichlorofluoromethane [Freon-11]	0.061	U	0.020	0.061	0.10	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Vinyl acetate	0.061	U	0.042	0.061	2.6	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Vinyl chloride	0.061	U	0.020	0.061	0.082	mg/Kg-dry	87.8	6/29/2016 2:17 AM
Xylene (Total)	0.15	U	0.062	0.15	0.31	mg/Kg-dry	87.8	6/29/2016 2:17 AM

RTI Laboratories - Analytical Report

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:10:00 AM
Project:	Camp Hero		
Lab ID:	1606585-018	**Matrix:**	Soil
Client Sample ID:	H2-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 4-Bromofluorobenzene	93.8			79-119		%Rec	87.8	6/29/2016 2:17 AM
Surr: Dibromofluoromethane	93.1			78-119		%Rec	87.8	6/29/2016 2:17 AM
Surr: Toluene-d8	93.2			85-116		%Rec	87.8	6/29/2016 2:17 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - DATES REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606585-001A	TB-SO-061516-01	6/15/2016 9:00 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/19/2016 12:16 AM	6/19/2016 12:16 AM
1606585-002A	STB-SB01-05	6/15/2016 9:55 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/21/2016 12:37 PM	6/21/2016 12:37 PM
1606585-002D	STB-SB01-05	6/15/2016 9:55 AM	Soil	PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-003A	STB-SB02-06	6/15/2016 9:37 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/21/2016 1:04 PM	6/21/2016 1:04 PM
1606585-003D	STB-SB02-06	6/15/2016 9:37 AM	Soil	PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-004C	STB-SB03-06	6/15/2016 9:30 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 9:18 PM	6/28/2016 9:18 PM
1606585-004D	STB-SB03-06	6/15/2016 9:30 AM	Soil	PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-005A	STB-SB04-06	6/15/2016 10:05 AM	Soil	SW_8260S-LL-Volatile Organic Compounds		6/19/2016 7:43 AM	6/19/2016 7:43 AM
1606585-005D	STB-SB04-06	6/15/2016 10:05 AM	Soil	PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-006C	STB-SB04-06 DUP	6/15/2016 10:05 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 9:43 PM	6/28/2016 9:43 PM
1606585-006D	STB-SB04-06 DUP	6/15/2016 10:05 AM	Soil	PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-007C	STB-SS05-01	6/15/2016 10:30 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 10:08 PM	6/28/2016 10:08 PM
1606585-007D	STB-SS05-01	6/15/2016 10:30 AM	Soil	PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-008C	STB-SS06-01	6/15/2016 10:20 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 10:33 PM	6/28/2016 10:33 PM
1606585-008D	STB-SS06-01	6/15/2016 10:20 AM	Soil	PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-009C	STB-SS07-01	6/15/2016 10:25 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 10:58 PM	6/28/2016 10:58 PM

RTI Laboratories - DATES REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606585-009D	STB-SS07-01	6/15/2016 10:25 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-010A	WDS-SB20-06	6/15/2016 9:15 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/19/2016 1:26 PM	6/19/2016 1:26 PM
1606585-010D	WDS-SB20-06	6/15/2016 9:15 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-011C	H1-SS01-01	6/15/2016 8:40 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 11:22 PM	6/28/2016 11:22 PM
1606585-011D	H1-SS01-01	6/15/2016 8:40 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-012C	H1-SS01-02	6/15/2016 8:50 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 11:47 PM	6/28/2016 11:47 PM
1606585-012D	H1-SS01-02	6/15/2016 8:50 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-013C	H1-SS02-01	6/15/2016 9:00 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/29/2016 12:12 AM	6/29/2016 12:12 AM
1606585-013D	H1-SS02-01	6/15/2016 9:00 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-014C	H1-SS02-02	6/15/2016 9:05 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/29/2016 12:37 AM	6/29/2016 12:37 AM
1606585-014D	H1-SS02-02	6/15/2016 9:05 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-015C	H2-SS01-01	6/15/2016 9:40 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/29/2016 1:02 AM	6/29/2016 1:02 AM
1606585-015D	H2-SS01-01	6/15/2016 9:40 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-016C	H2-SS01-02	6/15/2016 9:50 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/29/2016 1:27 AM	6/29/2016 1:27 AM
1606585-016D	H2-SS01-02	6/15/2016 9:50 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-017C	H2-SS02-01	6/15/2016 10:00 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/29/2016 1:52 AM	6/29/2016 1:52 AM

RTI Laboratories - DATES REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606585-017D	H2-SS02-01	6/15/2016 10:00 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606585-018A	H2-SS02-02	6/15/2016 10:10 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/19/2016 8:02 PM	6/19/2016 8:02 PM
1606585-018C	H2-SS02-02	6/15/2016 10:10 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/29/2016 2:17 AM	6/29/2016 2:17 AM
1606585-018D	H2-SS02-02	6/15/2016 10:10 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86773

Sample ID:	VOA11B LCS 06181	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	86773
Client ID:	LCSS	Batch ID:	R86773	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683584

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0088	0.0010	0.010	0	87.8	78	125				
1,1,1-Trichloroethane	0.0098	0.0010	0.010	0	98.0	73	130				
1,1,2,2-Tetrachloroethane	0.0084	0.0010	0.010	0	84.0	70	124				
1,1,2-Trichloroethane	0.0086	0.0010	0.010	0	85.7	78	121				
1,1-Dichloroethane	0.010	0.0010	0.010	0	103	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	103	70	131				
1,2,3-Trichloropropane	0.0085	0.0010	0.010	0	84.7	73	125				
1,2-Dibromo-3-chloropropane	0.0059	0.0050	0.010	0	59.0	61	132				QY
1,2-Dibromoethane	0.0086	0.0010	0.010	0	86.2	78	122				
1,2-Dichloroethane	0.0098	0.0010	0.010	0	98.2	73	128				
1,2-Dichloropropane	0.0098	0.0010	0.010	0	98.1	76	123				
2-Butanone [MEK]	0.013	0.020	0.010	0	133	51	148				J
2-Hexanone	0.0069	0.0050	0.010	0	69.4	53	145				
Acetone	0.036	0.010	0.010	0	355	36	164				QY
Benzene	0.0097	0.00060	0.010	0	97.4	77	121				
Bromodichloromethane	0.0092	0.0010	0.010	0	92.2	75	127				
Bromoform	0.0055	0.0010	0.010	0	54.8	67	132				QY
Carbon disulfide	0.0090	0.0010	0.010	0	90.0	63	132				
Carbon tetrachloride	0.010	0.0010	0.010	0	100	70	135				
Chlorobenzene	0.0092	0.0010	0.010	0	91.8	79	120				
Chlorodibromomethane	0.0067	0.0010	0.010	0	66.8	74	126				QY
Chloroethane	0.012	0.0020	0.010	0	119	59	139				
Chloroform	0.0099	0.0010	0.010	0	99.2	78	123				
Chloromethane	0.012	0.0010	0.010	0	116	50	136				
cis-1,2-Dichloroethene	0.010	0.0010	0.010	0	103	77	123				
cis-1,3-Dichloropropene	0.0076	0.0010	0.010	0	75.6	74	126				
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	100	29	149				
Ethylbenzene	0.0091	0.0010	0.010	0	90.6	76	122				
Methylene chloride	0.013	0.0050	0.010	0	125	70	128				
Styrene	0.0082	0.0010	0.010	0	82.3	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86773

Sample ID:	VOA11B LCS 06181	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	86773
Client ID:	LCSS	Batch ID:	R86773	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683584

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0086	0.0010	0.010	0	86.5	73	128				
Toluene	0.0094	0.0010	0.010	0	94.0	77	121				
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	109	74	125				
trans-1,3-Dichloropropene	0.0077	0.0010	0.010	0	76.6	71	130				
Trichloroethene	0.0092	0.0010	0.010	0	92.1	77	123				
Trichlorofluoromethane [Freon-11]	0.012	0.0010	0.010	0	115	62	140				
Vinyl acetate	0.011	0.0050	0.010	0	106	50	151				
Vinyl chloride	0.012	0.00080	0.010	0	123	56	135				
Xylene (Total)	0.028	0.0030	0.030	0	94.4	78	124				
Surr: 4-Bromofluorobenzene	58		60.00		97.0	79	119				
Surr: Dibromofluoromethane	56		60.00		93.1	78	119				
Surr: Toluene-d8	58		60.00		96.1	85	116				

Sample ID:	VOA11B LCSD 0618	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	86773
Client ID:	LCSS02	Batch ID:	R86773	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683585

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0089	0.0010	0.010	0	88.9	78	125	0.0088	1.25	25	
1,1,1-Trichloroethane	0.0098	0.0010	0.010	0	97.6	73	130	0.0098	0.409	25	
1,1,2,2-Tetrachloroethane	0.0081	0.0010	0.010	0	81.0	70	124	0.0084	3.64	25	
1,1,2-Trichloroethane	0.0084	0.0010	0.010	0	84.4	78	121	0.0086	1.53	25	
1,1-Dichloroethane	0.010	0.0010	0.010	0	103	76	125	0.010	0.195	25	
1,1-Dichloroethene	0.010	0.0010	0.010	0	102	70	131	0.010	1.18	25	
1,2,3-Trichloropropane	0.0078	0.0010	0.010	0	77.8	73	125	0.0085	8.49	25	
1,2-Dibromo-3-chloropropane	0.0065	0.0050	0.010	0	65.1	61	132	0.0059	9.83	25	Y
1,2-Dibromoethane	0.0086	0.0010	0.010	0	85.8	78	122	0.0086	0.465	25	
1,2-Dichloroethane	0.010	0.0010	0.010	0	101	73	128	0.0098	2.32	25	
1,2-Dichloropropane	0.0094	0.0010	0.010	0	93.8	76	123	0.0098	4.48	25	
2-Butanone [MEK]	0.021	0.020	0.010	0	213	51	148	0.013	46.0	25	RQ
2-Hexanone	0.0063	0.0050	0.010	0	63.1	53	145	0.0069	9.51	25	
Acetone	0.024	0.010	0.010	0	244	36	164	0.036	37.2	25	RQY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86773

Sample ID:	VOA11B LCSD 0618	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	86773
Client ID:	LCSS02	Batch ID:	R86773	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1683585

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0099	0.00060	0.010	0	98.8	77	121	0.0097	1.43	25	
Bromodichloromethane	0.0090	0.0010	0.010	0	89.8	75	127	0.0092	2.64	25	
Bromoform	0.0052	0.0010	0.010	0	52.1	67	132	0.0055	5.05	25	QY
Carbon disulfide	0.0092	0.0010	0.010	0	91.5	63	132	0.0090	1.65	25	
Carbon tetrachloride	0.0099	0.0010	0.010	0	99.0	70	135	0.010	1.20	25	
Chlorobenzene	0.0091	0.0010	0.010	0	91.2	79	120	0.0092	0.656	25	
Chlorodibromomethane	0.0066	0.0010	0.010	0	65.8	74	126	0.0067	1.51	25	QY
Chloroethane	0.012	0.0020	0.010	0	121	59	139	0.012	2.09	25	
Chloroform	0.0098	0.0010	0.010	0	98.4	78	123	0.0099	0.810	25	
Chloromethane	0.012	0.0010	0.010	0	118	50	136	0.012	1.80	25	
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	107	77	123	0.010	4.29	25	
cis-1,3-Dichloropropene	0.0074	0.0010	0.010	0	73.9	74	126	0.0076	2.27	25	Q
Dichlorodifluoromethane [Freon-12]	0.0098	0.0010	0.010	0	98.2	29	149	0.010	1.82	25	
Ethylbenzene	0.0092	0.0010	0.010	0	91.6	76	122	0.0091	1.10	25	
Methylene chloride	0.015	0.0050	0.010	0	145	70	128	0.013	14.9	25	Q
Styrene	0.0076	0.0010	0.010	0	76.5	76	124	0.0082	7.30	25	
Tetrachloroethene	0.0086	0.0010	0.010	0	85.8	73	128	0.0086	0.813	25	
Toluene	0.0097	0.0010	0.010	0	96.8	77	121	0.0094	2.94	25	
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	106	74	125	0.011	3.07	25	
trans-1,3-Dichloropropene	0.0074	0.0010	0.010	0	73.5	71	130	0.0077	4.13	25	
Trichloroethene	0.0092	0.0010	0.010	0	91.7	77	123	0.0092	0.435	25	
Trichlorofluoromethane [Freon-11]	0.012	0.0010	0.010	0	116	62	140	0.012	1.04	25	
Vinyl acetate	0.010	0.0050	0.010	0	103	50	151	0.011	2.58	25	
Vinyl chloride	0.012	0.00080	0.010	0	118	56	135	0.012	3.49	25	
Xylene (Total)	0.028	0.0030	0.030	0	92.6	78	124	0.028	1.89	25	
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119		0	25	
Surr: Dibromofluoromethane	55		60.00		92.1	78	119		0	25	
Surr: Toluene-d8	57		60.00		95.5	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86773**

Sample ID:	**VOA11B MBLK 0618**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/18/2016**	RunNo:	**86773**
Client ID:	**PBS**	Batch ID:	**R86773**	TestNo:	**SW8260B**			Analysis Date:	**6/18/2016**	SeqNo:	**1683587**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									UY
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.015	0.010									TY
Benzene	0.00060	0.00060									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									UY
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									UY
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0045	0.0050									JT
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86773**

Sample ID:	**VOA11B MBLK 0618**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/18/2016**	RunNo:	**86773**
Client ID:	**PBS**	Batch ID:	**R86773**	TestNo:	**SW8260B**			Analysis Date:	**6/18/2016**	SeqNo:	**1683587**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00058	0.0010									JT
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									U
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	44		50.00		88.8	79	119				
Surr: Dibromofluoromethane	45		50.00		90.0	78	119				
Surr: Toluene-d8	44		50.00		88.7	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	VOA11B LCS2 0618	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	LCSS	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683597

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0093	0.0010	0.010	0	92.9	78	125				
1,1,1-Trichloroethane	0.0099	0.0010	0.010	0	99.2	73	130				
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	101	70	124				
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	100	78	121				
1,1-Dichloroethane	0.011	0.0010	0.010	0	110	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	104	70	131				
1,2,3-Trichloropropane	0.011	0.0010	0.010	0	113	73	125				
1,2-Dibromo-3-chloropropane	0.0090	0.0050	0.010	0	89.6	61	132				
1,2-Dibromoethane	0.010	0.0010	0.010	0	104	78	122				
1,2-Dichloroethane	0.011	0.0010	0.010	0	115	73	128				
1,2-Dichloropropane	0.010	0.0010	0.010	0	103	76	123				
2-Butanone [MEK]	0.013	0.020	0.010	0	126	51	148				JY
2-Hexanone	0.0096	0.0050	0.010	0	96.2	53	145				Y
Acetone	0.020	0.010	0.010	0	202	36	164				QY
Benzene	0.011	0.00060	0.010	0	106	77	121				
Bromodichloromethane	0.010	0.0010	0.010	0	100	75	127				
Bromoform	0.0065	0.0010	0.010	0	64.7	67	132				QY
Carbon disulfide	0.0094	0.0010	0.010	0	94.5	63	132				
Carbon tetrachloride	0.010	0.0010	0.010	0	103	70	135				
Chlorobenzene	0.0091	0.0010	0.010	0	90.9	79	120				
Chlorodibromomethane	0.0076	0.0010	0.010	0	75.8	74	126				
Chloroethane	0.013	0.0020	0.010	0	126	59	139				
Chloroform	0.011	0.0010	0.010	0	107	78	123				
Chloromethane	0.012	0.0010	0.010	0	122	50	136				
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	106	77	123				
cis-1,3-Dichloropropene	0.0076	0.0010	0.010	0	76.2	74	126				
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	102	29	149				
Ethylbenzene	0.0090	0.0010	0.010	0	90.4	76	122				
Methylene chloride	0.014	0.0050	0.010	0	140	70	128				Q
Styrene	0.0077	0.0010	0.010	0	77.2	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	VOA11B LCS2 0618	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	LCSS	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683597

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0081	0.0010	0.010	0	81.0	73	128				
Toluene	0.0095	0.0010	0.010	0	95.0	77	121				
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	112	74	125				
trans-1,3-Dichloropropene	0.0079	0.0010	0.010	0	78.6	71	130				
Trichloroethene	0.0090	0.0010	0.010	0	90.3	77	123				
Trichlorofluoromethane [Freon-11]	0.013	0.0010	0.010	0	126	62	140				
Vinyl acetate	0.014	0.0050	0.010	0	136	50	151				Y
Vinyl chloride	0.013	0.00080	0.010	0	127	56	135				
Xylene (Total)	0.027	0.0030	0.030	0	88.7	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.7	79	119				
Surr: Dibromofluoromethane	60		60.00		100	78	119				
Surr: Toluene-d8	58		60.00		96.8	85	116				

Sample ID:	VOA11B LCSD2 061	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	LCSS02	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683598

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0096	0.0010	0.010	0	96.5	78	125	0.0093	3.80	25	
1,1,1-Trichloroethane	0.010	0.0010	0.010	0	105	73	130	0.0099	5.39	25	
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	102	70	124	0.010	1.48	25	
1,1,2-Trichloroethane	0.011	0.0010	0.010	0	106	78	121	0.010	5.54	25	
1,1-Dichloroethane	0.012	0.0010	0.010	0	116	76	125	0.011	5.56	25	
1,1-Dichloroethene	0.011	0.0010	0.010	0	108	70	131	0.010	3.30	25	
1,2,3-Trichloropropane	0.011	0.0010	0.010	0	107	73	125	0.011	5.10	25	
1,2-Dibromo-3-chloropropane	0.0081	0.0050	0.010	0	80.8	61	132	0.0090	10.3	25	
1,2-Dibromoethane	0.011	0.0010	0.010	0	106	78	122	0.010	1.62	25	
1,2-Dichloroethane	0.012	0.0010	0.010	0	119	73	128	0.011	3.68	25	
1,2-Dichloropropane	0.010	0.0010	0.010	0	105	76	123	0.010	1.93	25	
2-Butanone [MEK]	0.013	0.020	0.010	0	127	51	148	0.013	1.11	25	JY
2-Hexanone	0.0097	0.0050	0.010	0	96.8	53	145	0.0096	0.622	25	Y
Acetone	0.020	0.010	0.010	0	204	36	164	0.020	0.887	25	QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	**VOA11B LCSD2 061**	Samp Type:	**LCSD**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/19/2016**	RunNo:	**86774**
Client ID:	**LCSS02**	Batch ID:	**R86774**	TestNo:	**SW8260B**			Analysis Date:	**6/19/2016**	SeqNo:	**1683598**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.011	0.00060	0.010	0	109	77	121	0.011	2.69	25	
Bromodichloromethane	0.010	0.0010	0.010	0	104	75	127	0.010	3.91	25	
Bromoform	0.0064	0.0010	0.010	0	63.9	67	132	0.0065	1.24	25	QY
Carbon disulfide	0.0099	0.0010	0.010	0	98.9	63	132	0.0094	4.55	25	
Carbon tetrachloride	0.011	0.0010	0.010	0	106	70	135	0.010	2.87	25	
Chlorobenzene	0.0096	0.0010	0.010	0	96.5	79	120	0.0091	5.98	25	
Chlorodibromomethane	0.0081	0.0010	0.010	0	81.0	74	126	0.0076	6.63	25	
Chloroethane	0.013	0.0020	0.010	0	134	59	139	0.013	6.32	25	
Chloroform	0.011	0.0010	0.010	0	110	78	123	0.011	3.41	25	
Chloromethane	0.012	0.0010	0.010	0	124	50	136	0.012	1.39	25	
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	109	77	123	0.011	2.41	25	
cis-1,3-Dichloropropene	0.0079	0.0010	0.010	0	79.0	74	126	0.0076	3.61	25	
Dichlorodifluoromethane [Freon-12]	0.011	0.0010	0.010	0	110	29	149	0.010	6.80	25	
Ethylbenzene	0.0093	0.0010	0.010	0	93.4	76	122	0.0090	3.26	25	
Methylene chloride	0.015	0.0050	0.010	0	147	70	128	0.014	5.36	25	Q
Styrene	0.0081	0.0010	0.010	0	80.5	76	124	0.0077	4.19	25	
Tetrachloroethene	0.0088	0.0010	0.010	0	88.1	73	128	0.0081	8.40	25	
Toluene	0.0095	0.0010	0.010	0	95.2	77	121	0.0095	0.210	25	
trans-1,2-Dichloroethene	0.012	0.0010	0.010	0	116	74	125	0.011	3.78	25	
trans-1,3-Dichloropropene	0.0083	0.0010	0.010	0	83.0	71	130	0.0079	5.45	25	
Trichloroethene	0.0088	0.0010	0.010	0	87.5	77	123	0.0090	3.15	25	
Trichlorofluoromethane [Freon-11]	0.013	0.0010	0.010	0	130	62	140	0.013	3.21	25	
Vinyl acetate	0.013	0.0050	0.010	0	129	50	151	0.014	4.75	25	Y
Vinyl chloride	0.013	0.00080	0.010	0	129	56	135	0.013	1.79	25	
Xylene (Total)	0.028	0.0030	0.030	0	94.3	78	124	0.027	6.08	25	
Surr: 4-Bromofluorobenzene	58		60.00		97.4	79	119		0	25	
Surr: Dibromofluoromethane	61		60.00		102	78	119		0	25	
Surr: Toluene-d8	59		60.00		98.3	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86774**

Sample ID:	**VOA11B MBLK2 061**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/19/2016**	RunNo:	**86774**
Client ID:	**PBS**	Batch ID:	**R86774**	TestNo:	**SW8260B**			Analysis Date:	**6/19/2016**	SeqNo:	**1683600**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									UY
2-Hexanone	0.0020	0.0050									UY
Acetone	0.0079	0.010									JTY
Benzene	0.00060	0.00060									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									UY
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0018	0.0050									J
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	VOA11B MBLK2061	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	PBS	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683600

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									UY
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	45		50.00		90.5	79	119				
Surr: Dibromofluoromethane	50		50.00		99.2	78	119				
Surr: Toluene-d8	45		50.00		89.4	85	116				

Sample ID:	1606585-018AMS	Samp Type:	MS	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	H2-SS02-02MS1	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683609

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0097	0.0013	0.013	0	73.8	78	125				Q
1,1,1-Trichloroethane	0.013	0.0013	0.013	0	95.7	73	130				
1,1,2,2-Tetrachloroethane	0.010	0.0013	0.013	0	78.7	70	124				
1,1,2-Trichloroethane	0.011	0.0013	0.013	0	85.4	78	121				
1,1-Dichloroethane	0.012	0.0013	0.013	0	93.2	76	125				
1,1-Dichloroethene	0.013	0.0013	0.013	0	95.5	70	131				
1,2,3-Trichloropropane	0.012	0.0013	0.013	0	92.0	73	125				
1,2-Dibromo-3-chloropropane	0.0088	0.0066	0.013	0	67.3	61	132				
1,2-Dibromoethane	0.011	0.0013	0.013	0	86.8	78	122				
1,2-Dichloroethane	0.014	0.0013	0.013	0	109	73	128				
1,2-Dichloropropane	0.011	0.0013	0.013	0	85.5	76	123				
2-Butanone [MEK]	0.033	0.026	0.013	0.013	153	51	148				QY
2-Hexanone	0.016	0.0066	0.013	0	120	53	145				Y
Acetone	0.27	0.013	0.013	0.22	384	36	164				JQBY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	1606585-018AMS	Samp Type:	MS	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	H2-SS02-02MS1	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683609

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.011	0.00079	0.013	0	85.0	77	121				
Bromodichloromethane	0.011	0.0013	0.013	0	85.6	75	127				
Bromoform	0.0069	0.0013	0.013	0	52.4	67	132				QY
Carbon disulfide	0.010	0.0013	0.013	0	78.7	63	132				
Carbon tetrachloride	0.013	0.0013	0.013	0	96.2	70	135				
Chlorobenzene	0.0082	0.0013	0.013	0	62.5	79	120				Q
Chlorodibromomethane	0.0085	0.0013	0.013	0	64.5	74	126				Q
Chloroethane	0.013	0.0026	0.013	0	98.1	59	139				
Chloroform	0.012	0.0013	0.013	0	92.2	78	123				
Chloromethane	0.013	0.0013	0.013	0	97.0	50	136				
cis-1,2-Dichloroethene	0.012	0.0013	0.013	0	92.1	77	123				
cis-1,3-Dichloropropene	0.0074	0.0013	0.013	0	56.4	74	126				Q
Dichlorodifluoromethane [Freon-12]	0.013	0.0013	0.013	0	101	29	149				
Ethylbenzene	0.0086	0.0013	0.013	0	65.8	76	122				Q
Methylene chloride	0.017	0.0066	0.013	0.0017	115	70	128				
Styrene	0.0058	0.0013	0.013	0	43.9	76	124				Q
Tetrachloroethene	0.0083	0.0013	0.013	0	63.3	73	128				Q
Toluene	0.0097	0.0013	0.013	0	74.2	77	121				Q
trans-1,2-Dichloroethene	0.013	0.0013	0.013	0	96.1	74	125				
trans-1,3-Dichloropropene	0.0077	0.0013	0.013	0	58.3	71	130				Q
Trichloroethene	0.0095	0.0013	0.013	0	72.4	77	123				Q
Trichlorofluoromethane [Freon-11]	0.014	0.0013	0.013	0	109	62	140				
Vinyl acetate	0.016	0.0066	0.013	0	125	50	151				Y
Vinyl chloride	0.013	0.0011	0.013	0	95.4	56	135				
Xylene (Total)	0.025	0.0039	0.039	0	64.1	78	124				Q
Surr: 4-Bromofluorobenzene	73		78.82		93.1	79	119				
Surr: Dibromofluoromethane	77		78.82		98.0	78	119				
Surr: Toluene-d8	73		78.82		92.8	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	1606585-018AMSD	Samp Type:	MSD	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	H2-SS02-02SD1	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683610

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0076	0.0011	0.011	0	70.7	78	125	0.0097	24.7	25	Q
1,1,1-Trichloroethane	0.0094	0.0011	0.011	0	88.3	73	130	0.013	28.4	25	R
1,1,2,2-Tetrachloroethane	0.0070	0.0011	0.011	0	65.4	70	124	0.010	38.6	25	RQ
1,1,2-Trichloroethane	0.0083	0.0011	0.011	0	77.9	78	121	0.011	29.5	25	RQ
1,1-Dichloroethane	0.0099	0.0011	0.011	0	93.0	76	125	0.012	20.7	25	
1,1-Dichloroethene	0.0094	0.0011	0.011	0	87.7	70	131	0.013	28.9	25	R
1,2,3-Trichloropropane	0.0065	0.0011	0.011	0	61.2	73	125	0.012	59.5	25	RQ
1,2-Dibromo-3-chloropropane	0.0053	0.0053	0.011	0	49.5	61	132	0.0088	50.2	25	JRQ
1,2-Dibromoethane	0.0070	0.0011	0.011	0	65.1	78	122	0.011	48.4	25	RQ
1,2-Dichloroethane	0.011	0.0011	0.011	0	106	73	128	0.014	23.7	25	
1,2-Dichloropropane	0.0089	0.0011	0.011	0	83.2	76	123	0.011	23.2	25	
2-Butanone [MEK]	0.011	0.021	0.011	0.013	-122	51	148	0.033	200	25	RQUY
2-Hexanone	0.0014	0.0053	0.011	0	13.4	53	145	0.016	167	25	JRQY
Acetone	0.014	0.011	0.011	0.22	-1,940	36	164	0.27	181	25	RQBY
Benzene	0.0079	0.00064	0.011	0	74.3	77	121	0.011	33.7	25	RQ
Bromodichloromethane	0.0089	0.0011	0.011	0	82.8	75	127	0.011	23.8	25	
Bromoform	0.0044	0.0011	0.011	0	41.3	67	132	0.0069	43.7	25	RQY
Carbon disulfide	0.0071	0.0011	0.011	0	66.0	63	132	0.010	37.7	25	R
Carbon tetrachloride	0.0097	0.0011	0.011	0	90.8	70	135	0.013	26.2	25	R
Chlorobenzene	0.0065	0.0011	0.011	0	60.9	79	120	0.0082	23.1	25	Q
Chlorodibromomethane	0.0060	0.0011	0.011	0	56.1	74	126	0.0085	34.2	25	RQ
Chloroethane	0.0099	0.0021	0.011	0	92.4	59	139	0.013	26.4	25	R
Chloroform	0.0093	0.0011	0.011	0	87.4	78	123	0.012	25.8	25	R
Chloromethane	0.0079	0.0011	0.011	0	73.9	50	136	0.013	46.9	25	R
cis-1,2-Dichloroethene	0.0089	0.0011	0.011	0	83.0	77	123	0.012	30.7	25	R
cis-1,3-Dichloropropene	0.0039	0.0011	0.011	0	36.2	74	126	0.0074	62.7	25	RQ
Dichlorodifluoromethane [Freon-12]	0.0099	0.0011	0.011	0	92.5	29	149	0.013	29.4	25	R
Ethylbenzene	0.0065	0.0011	0.011	0	60.9	76	122	0.0086	28.1	25	RQ
Methylene chloride	0.017	0.0053	0.011	0.0017	139	70	128	0.017	1.87	25	Q
Styrene	0.0014	0.0011	0.011	0	13.5	76	124	0.0058	120	25	RQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	1606585-018AMSD	Samp Type:	MSD	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	H2-SS02-02SD1	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683610

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0072	0.0011	0.011	0	67.1	73	128	0.0083	14.7	25	Q
Toluene	0.0071	0.0011	0.011	0	66.8	77	121	0.0097	30.8	25	RQ
trans-1,2-Dichloroethene	0.010	0.0011	0.011	0	93.4	74	125	0.013	23.3	25	
trans-1,3-Dichloropropene	0.0038	0.0011	0.011	0	35.3	71	130	0.0077	67.9	25	RQ
Trichloroethene	0.0075	0.0011	0.011	0	70.4	77	123	0.0095	23.3	25	Q
Trichlorofluoromethane [Freon-11]	0.011	0.0011	0.011	0	100	62	140	0.014	28.4	25	R
Vinyl acetate	0.013	0.0053	0.011	0	120	50	151	0.016	24.7	25	Y
Vinyl chloride	0.0093	0.00086	0.011	0	87.2	56	135	0.013	29.3	25	R
Xylene (Total)	0.019	0.0032	0.032	0	59.1	78	124	0.025	28.6	25	RQ
Surr: 4-Bromofluorobenzene	60		64.17		93.0	79	119		0	25	
Surr: Dibromofluoromethane	61		64.17		95.7	78	119		0	25	
Surr: Toluene-d8	58		64.17		90.1	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86807

Sample ID:	VOA11B LCS 06211	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	%Rec	Prep Date:	6/21/2016	RunNo:	86807
Client ID:	LCSS	Batch ID:	R86807	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684271

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	60		60.00		100	79	119				
Surr: Dibromofluoromethane	58		60.00		97.2	78	119				
Surr: Toluene-d8	57		60.00		95.2	85	116				

Sample ID:	VOA11B LCSD 0621	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	%Rec	Prep Date:	6/21/2016	RunNo:	86807
Client ID:	LCSS02	Batch ID:	R86807	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684272

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	60		60.00		99.8	79	119		0	25	
Surr: Dibromofluoromethane	59		60.00		98.0	78	119		0	25	
Surr: Toluene-d8	59		60.00		97.8	85	116		0	25	

Sample ID:	VOA11B MBLK 0621	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	%Rec	Prep Date:	6/21/2016	RunNo:	86807
Client ID:	PBS	Batch ID:	R86807	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684274

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	45		50.00		90.3	79	119				
Surr: Dibromofluoromethane	47		50.00		94.6	78	119				
Surr: Toluene-d8	44		50.00		89.0	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86820**

Sample ID:	**1606585-002D DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86820**
Client ID:	**STB-SB01-05LR1**	Batch ID:	**R86820**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684529**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	12	1.0						12.03	3.43	20	

Sample ID:	**1606585-018D DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86820**
Client ID:	**H2-SS02-02LR1**	Batch ID:	**R86820**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684546**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	14	1.0						14.18	1.46	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87014

Sample ID: **VOA11B LCS2 0628** Samp Type: **LCS** Test Code: **SW_8260S** Units: **mg/Kg** Prep Date: **6/28/2016** RunNo: **87014**

Client ID: **LCSS** Batch ID: **R87014** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1688196**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.37	0.050	0.50	0	73.4	78	125				Q
1,1,1-Trichloroethane	0.48	0.050	0.50	0	95.8	73	130				
1,1,2,2-Tetrachloroethane	0.49	0.050	0.50	0	98.3	70	124				
1,1,2-Trichloroethane	0.47	0.050	0.50	0	93.2	78	121				
1,1-Dichloroethane	0.50	0.050	0.50	0	99.9	76	125				
1,1-Dichloroethene	0.49	0.050	0.50	0	98.4	70	131				
1,2,3-Trichloropropane	0.46	0.10	0.50	0	91.5	73	125				
1,2-Dibromo-3-chloropropane	0.54	0.10	0.50	0	108	61	132				Z
1,2-Dibromoethane	0.41	0.050	0.50	0	82.3	78	122				
1,2-Dichloroethane	0.50	0.050	0.50	0	99.4	73	128				
1,2-Dichloropropane	0.48	0.050	0.50	0	96.4	76	123				
2-Butanone [MEK]	0.49	0.50	0.50	0	97.3	51	148				J
2-Hexanone	0.43	0.25	0.50	0	85.7	53	145				
Acetone	0.58	0.25	0.50	0	117	36	164				
Benzene	0.49	0.050	0.50	0	98.0	77	121				
Bromodichloromethane	0.37	0.050	0.50	0	74.2	75	127				Q
Bromoform	0.49	0.050	0.50	0	97.8	67	132				
Carbon disulfide	0.41	0.10	0.50	0	81.9	63	132				
Carbon tetrachloride	0.41	0.050	0.50	0	82.1	70	135				
Chlorobenzene	0.47	0.050	0.50	0	94.8	79	120				
Chlorodibromomethane	0.48	0.050	0.50	0	96.5	74	126				Z
Chloroethane	0.20	0.25	0.50	0	0	59	139				QUY
Chloroform	0.50	0.050	0.50	0	99.0	78	123				
Chloromethane	0.59	0.050	0.50	0	118	50	136				
cis-1,2-Dichloroethene	0.50	0.050	0.50	0	100	77	123				
cis-1,3-Dichloropropene	0.38	0.050	0.50	0	76.7	74	126				
Dichlorodifluoromethane [Freon-12]	0.53	0.050	0.50	0	106	29	149				
Ethylbenzene	0.45	0.050	0.50	0	90.2	76	122				
Methylene chloride	0.59	0.10	0.50	0	117	70	128				
Styrene	0.36	0.050	0.50	0	73.0	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87014

Sample ID:	VOA11B LCS2 0628	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87014
Client ID:	LCSS	Batch ID:	R87014	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1688196

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.44	0.050	0.50	0	87.5	73	128				
Toluene	0.46	0.050	0.50	0	92.4	77	121				
trans-1,2-Dichloroethene	0.53	0.050	0.50	0	106	74	125				
trans-1,3-Dichloropropene	0.36	0.050	0.50	0	72.7	71	130				
Trichloroethene	0.48	0.050	0.50	0	95.2	77	123				
Trichlorofluoromethane [Freon-11]	0.63	0.050	0.50	0	125	62	140				
Vinyl acetate	0.51	1.2	0.50	0	102	50	151				J
Vinyl chloride	0.46	0.040	0.50	0	91.4	56	135				
Xylene (Total)	1.4	0.15	1.5	0	91.3	78	124				
Surr: 4-Bromofluorobenzene	2,900		3,000		96.6	79	119				
Surr: Dibromofluoromethane	3,000		3,000		102	78	119				
Surr: Toluene-d8	2,900		3,000		96.2	85	116				

Sample ID:	VOA11B MBLK2 062	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87014
Client ID:	PBS	Batch ID:	R87014	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1688198

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.030	0.050									U
1,1,1-Trichloroethane	0.030	0.050									U
1,1,2,2-Tetrachloroethane	0.030	0.050									U
1,1,2-Trichloroethane	0.030	0.050									U
1,1-Dichloroethane	0.030	0.050									U
1,1-Dichloroethene	0.030	0.050									U
1,2,3-Trichloropropane	0.030	0.10									U
1,2-Dibromo-3-chloropropane	0.050	0.10									UZ
1,2-Dibromoethane	0.030	0.050									U
1,2-Dichloroethane	0.030	0.050									U
1,2-Dichloropropane	0.030	0.050									U
2-Butanone [MEK]	0.25	0.50									U
2-Hexanone	0.030	0.25									U
Acetone	0.20	0.25									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87014

Sample ID:	VOA11B MBLK2 062	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87014
Client ID:	PBS	Batch ID:	R87014	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1688198

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.030	0.050									U
Bromodichloromethane	0.030	0.050									U
Bromoform	0.030	0.050									U
Carbon disulfide	0.030	0.10									U
Carbon tetrachloride	0.030	0.050									U
Chlorobenzene	0.030	0.050									U
Chlorodibromomethane	0.030	0.050									UZ
Chloroethane	0.20	0.25									UY
Chloroform	0.030	0.050									U
Chloromethane	0.024	0.050									J
cis-1,2-Dichloroethene	0.030	0.050									U
cis-1,3-Dichloropropene	0.030	0.050									U
Dichlorodifluoromethane [Freon-12]	0.030	0.050									U
Ethylbenzene	0.030	0.050									U
Methylene chloride	0.022	0.10									J
Styrene	0.030	0.050									U
Tetrachloroethene	0.030	0.050									U
Toluene	0.030	0.050									U
trans-1,2-Dichloroethene	0.030	0.050									U
trans-1,3-Dichloropropene	0.030	0.050									U
Trichloroethene	0.030	0.050									U
Trichlorofluoromethane [Freon-11]	0.030	0.050									U
Vinyl acetate	0.030	1.2									U
Vinyl chloride	0.030	0.040									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,300		2,500		92.0	79	119				
Surr: Dibromofluoromethane	2,500		2,500		102	78	119				
Surr: Toluene-d8	2,300		2,500		93.5	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87014

Sample ID: **1606585-018CMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/29/2016** RunNo: **87014**

Client ID: **H2-SS02-02MS1** Batch ID: **R87014** TestNo: **SW8260B** Analysis Date: **6/29/2016** SeqNo: **1688212**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.77	0.10	1.0	0	74.9	78	125				Q
1,1,1-Trichloroethane	0.93	0.10	1.0	0	90.8	73	130				
1,1,2,2-Tetrachloroethane	0.97	0.10	1.0	0	95.0	70	124				
1,1,2-Trichloroethane	0.95	0.10	1.0	0	92.7	78	121				
1,1-Dichloroethane	1.0	0.10	1.0	0	99.7	76	125				
1,1-Dichloroethene	1.0	0.10	1.0	0	97.6	70	131				
1,2,3-Trichloropropane	0.81	0.20	1.0	0	79.3	73	125				
1,2-Dibromo-3-chloropropane	1.0	0.20	1.0	0	97.6	61	132				Z
1,2-Dibromoethane	0.82	0.10	1.0	0	80.5	78	122				
1,2-Dichloroethane	1.0	0.10	1.0	0	101	73	128				
1,2-Dichloropropane	1.0	0.10	1.0	0	100	76	123				
2-Butanone [MEK]	1.1	1.0	1.0	0	110	51	148				
2-Hexanone	0.87	0.51	1.0	0	84.7	53	145				
Acetone	1.2	0.51	1.0	0	117	36	164				
Benzene	1.0	0.10	1.0	0	99.2	77	121				
Bromodichloromethane	0.71	0.10	1.0	0	69.1	75	127				Q
Bromoform	0.94	0.10	1.0	0	91.7	67	132				
Carbon disulfide	0.77	0.20	1.0	0	75.0	63	132				
Carbon tetrachloride	0.82	0.10	1.0	0	80.1	70	135				
Chlorobenzene	0.96	0.10	1.0	0	93.5	79	120				
Chlorodibromomethane	0.95	0.10	1.0	0	93.2	74	126				Z
Chloroethane	0.32	0.51	1.0	0	31.0	59	139				JQY
Chloroform	1.0	0.10	1.0	0	99.7	78	123				
Chloromethane	1.2	0.10	1.0	0.12	101	50	136				
cis-1,2-Dichloroethene	0.97	0.10	1.0	0	95.0	77	123				
cis-1,3-Dichloropropene	0.76	0.10	1.0	0	73.8	74	126				Q
Dichlorodifluoromethane [Freon-12]	1.1	0.10	1.0	0	108	29	149				
Ethylbenzene	0.92	0.10	1.0	0	90.0	76	122				
Methylene chloride	1.1	0.20	1.0	0.071	104	70	128				
Styrene	0.74	0.10	1.0	0	72.3	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87014

Sample ID: **1606585-018CMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/29/2016** RunNo: **87014**

Client ID: **H2-SS02-02MS1** Batch ID: **R87014** TestNo: **SW8260B** Analysis Date: **6/29/2016** SeqNo: **1688212**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.89	0.10	1.0	0	86.7	73	128				
Toluene	0.96	0.10	1.0	0	93.5	77	121				
trans-1,2-Dichloroethene	1.0	0.10	1.0	0	101	74	125				
trans-1,3-Dichloropropene	0.69	0.10	1.0	0	67.0	71	130				Q
Trichloroethene	0.93	0.10	1.0	0	91.0	77	123				
Trichlorofluoromethane [Freon-11]	1.3	0.10	1.0	0	131	62	140				
Vinyl acetate	1.0	2.6	1.0	0	102	50	151				J
Vinyl chloride	0.96	0.082	1.0	0	94.3	56	135				
Xylene (Total)	2.8	0.31	3.1	0	90.4	78	124				
Surr: 4-Bromofluorobenzene	5,900		6,139		96.5	79	119				
Surr: Dibromofluoromethane	6,200		6,139		101	78	119				
Surr: Toluene-d8	5,900		6,139		96.6	85	116				

Sample ID: **1606585-018CMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/29/2016** RunNo: **87014**

Client ID: **H2-SS02-02SD1** Batch ID: **R87014** TestNo: **SW8260B** Analysis Date: **6/29/2016** SeqNo: **1688213**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.71	0.10	1.0	0	69.6	78	125	0.77	7.34	25	Q
1,1,1-Trichloroethane	0.90	0.10	1.0	0	88.1	73	130	0.93	3.02	25	
1,1,2,2-Tetrachloroethane	0.96	0.10	1.0	0	93.6	70	124	0.97	1.48	25	
1,1,2-Trichloroethane	0.90	0.10	1.0	0	88.3	78	121	0.95	4.86	25	
1,1-Dichloroethane	0.97	0.10	1.0	0	94.8	76	125	1.0	5.04	25	
1,1-Dichloroethene	0.95	0.10	1.0	0	92.7	70	131	1.0	5.15	25	
1,2,3-Trichloropropane	0.76	0.20	1.0	0	74.5	73	125	0.81	6.24	25	
1,2-Dibromo-3-chloropropane	0.98	0.20	1.0	0	96.2	61	132	1.0	1.44	25	Z
1,2-Dibromoethane	0.80	0.10	1.0	0	78.0	78	122	0.82	3.15	25	Q
1,2-Dichloroethane	0.97	0.10	1.0	0	94.8	73	128	1.0	6.73	25	
1,2-Dichloropropane	0.93	0.10	1.0	0	90.9	76	123	1.0	10.0	25	
2-Butanone [MEK]	1.1	1.0	1.0	0	110	51	148	1.1	0.455	25	
2-Hexanone	0.86	0.51	1.0	0	84.0	53	145	0.87	0.830	25	
Acetone	1.2	0.51	1.0	0	120	36	164	1.2	2.53	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87014

Sample ID:	1606585-018CMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87014
Client ID:	H2-SS02-02SD1	Batch ID:	R87014	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688213

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.96	0.10	1.0	0	94.3	77	121	1.0	5.06	25	
Bromodichloromethane	0.67	0.10	1.0	0	65.5	75	127	0.71	5.35	25	Q
Bromoform	0.95	0.10	1.0	0	92.5	67	132	0.94	0.869	25	
Carbon disulfide	0.71	0.20	1.0	0	69.2	63	132	0.77	8.04	25	
Carbon tetrachloride	0.79	0.10	1.0	0	76.9	70	135	0.82	4.08	25	
Chlorobenzene	0.91	0.10	1.0	0	88.8	79	120	0.96	5.16	25	
Chlorodibromomethane	0.92	0.10	1.0	0	90.1	74	126	0.95	3.38	25	Z
Chloroethane	0.28	0.51	1.0	0	26.9	59	139	0.32	14.2	25	JQY
Chloroform	0.96	0.10	1.0	0	94.1	78	123	1.0	5.78	25	
Chloromethane	1.1	0.10	1.0	0.12	96.6	50	136	1.2	4.33	25	
cis-1,2-Dichloroethene	0.95	0.10	1.0	0	92.5	77	123	0.97	2.67	25	
cis-1,3-Dichloropropene	0.68	0.10	1.0	0	66.1	74	126	0.76	11.0	25	Q
Dichlorodifluoromethane [Freon-12]	1.1	0.10	1.0	0	103	29	149	1.1	4.36	25	
Ethylbenzene	0.87	0.10	1.0	0	85.5	76	122	0.92	5.13	25	
Methylene chloride	1.1	0.20	1.0	0.071	97.8	70	128	1.1	5.48	25	
Styrene	0.67	0.10	1.0	0	65.0	76	124	0.74	10.6	25	Q
Tetrachloroethene	0.81	0.10	1.0	0	79.1	73	128	0.89	9.17	25	
Toluene	0.90	0.10	1.0	0	87.5	77	121	0.96	6.63	25	
trans-1,2-Dichloroethene	0.99	0.10	1.0	0	96.9	74	125	1.0	4.54	25	
trans-1,3-Dichloropropene	0.65	0.10	1.0	0	63.7	71	130	0.69	5.05	25	Q
Trichloroethene	0.89	0.10	1.0	0	87.4	77	123	0.93	4.04	25	
Trichlorofluoromethane [Freon-11]	1.3	0.10	1.0	0	125	62	140	1.3	5.24	25	
Vinyl acetate	1.0	2.6	1.0	0	98.7	50	151	1.0	3.58	25	J
Vinyl chloride	0.91	0.082	1.0	0	89.3	56	135	0.96	5.45	25	
Xylene (Total)	2.6	0.31	3.1	0	84.3	78	124	2.8	6.99	25	
Surr: 4-Bromofluorobenzene	5,900		6,139		95.8	79	119		0	25	
Surr: Dibromofluoromethane	6,300		6,139		102	78	119		0	25	
Surr: Toluene-d8	5,900		6,139		95.7	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87289

Sample ID:	VOA11B LCS5 06181	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	87289
Client ID:	LCSS	Batch ID:	R87289	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1694206

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0093	0.0010	0.010	0	93.1	75	123				
1,3,5-Trimethylbenzene	0.0097	0.0010	0.010	0	96.7	73	124				
Benzene	0.0097	0.0010	0.010	0	97.4	77	121				
Ethylbenzene	0.0091	0.0010	0.010	0	90.6	76	122				
Isopropylbenzene	0.0093	0.0010	0.010	0	93.3	68	134				
Methyl tert-butyl ether [MTBE]	0.0082	0.0010	0.010	0	82.4	73	125				
n-Butylbenzene	0.010	0.0010	0.010	0	99.8	70	128				
n-Propylbenzene	0.0094	0.0010	0.010	0	94.5	73	125				
Naphthalene	0.0069	0.0050	0.010	0	69.2	62	129				
p-Isopropyltoluene [p-Cymene]	0.0098	0.0010	0.010	0	97.7	73	127				
sec-Butylbenzene	0.010	0.0020	0.010	0	101	73	126				
tert-Butylbenzene	0.0093	0.0010	0.010	0	93.1	73	125				
Toluene	0.0094	0.0010	0.010	0	94.0	77	121				
Xylene (Total)	0.028	0.0030	0.030	0	94.4	78	124				
Surr: 4-Bromofluorobenzene	58		60.00		97.0	79	119				
Surr: Dibromofluoromethane	56		60.00		93.1	78	119				
Surr: Toluene-d8	58		60.00		96.1	85	116				

Sample ID:	VOA11B LCSD5 0618	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	87289
Client ID:	LCSS02	Batch ID:	R87289	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1694207

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0091	0.0010	0.010	0	90.8	75	123	0.0093	2.50	25	
1,3,5-Trimethylbenzene	0.0094	0.0010	0.010	0	94.1	73	124	0.0097	2.73	25	
Benzene	0.0099	0.0010	0.010	0	98.8	77	121	0.0097	1.43	25	
Ethylbenzene	0.0092	0.0010	0.010	0	91.6	76	122	0.0091	1.10	25	
Isopropylbenzene	0.0095	0.0010	0.010	0	94.8	68	134	0.0093	1.59	25	
Methyl tert-butyl ether [MTBE]	0.0086	0.0010	0.010	0	85.6	73	125	0.0082	3.81	25	
n-Butylbenzene	0.0097	0.0010	0.010	0	97.0	70	128	0.010	2.85	25	
n-Propylbenzene	0.0092	0.0010	0.010	0	92.3	73	125	0.0094	2.36	25	
Naphthalene	0.0062	0.0050	0.010	0	61.7	62	129	0.0069	11.5	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87289

Sample ID:	VOA11B LCSD5 0618	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	87289
Client ID:	LCSS02	Batch ID:	R87289	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1694207

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.0093	0.0010	0.010	0	93.1	73	127	0.0098	4.82	25	
sec-Butylbenzene	0.0099	0.0020	0.010	0	98.6	73	126	0.010	2.80	25	
tert-Butylbenzene	0.0094	0.0010	0.010	0	94.0	73	125	0.0093	0.962	25	
Toluene	0.0097	0.0010	0.010	0	96.8	77	121	0.0094	2.94	25	
Xylene (Total)	0.028	0.0030	0.030	0	92.6	78	124	0.028	1.89	25	
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119		0	25	
Surr: Dibromofluoromethane	55		60.00		92.1	78	119		0	25	
Surr: Toluene-d8	57		60.00		95.5	85	116		0	25	

Sample ID:	VOA11B MBLK5 0618	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/18/2016	RunNo:	87289
Client ID:	PBS	Batch ID:	R87289	TestNo:	SW8260B			Analysis Date:	6/18/2016	SeqNo:	1694209

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.00060	0.0010									U
1,3,5-Trimethylbenzene	0.00060	0.0010									U
Benzene	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Isopropylbenzene	0.00060	0.0010									U
Methyl tert-butyl ether [MTBE]	0.00060	0.0010									U
n-Butylbenzene	0.00060	0.0010									U
n-Propylbenzene	0.00060	0.0010									U
Naphthalene	0.00060	0.0050									U
p-Isopropyltoluene [p-Cymene]	0.00060	0.0010									U
sec-Butylbenzene	0.0010	0.0020									U
tert-Butylbenzene	0.00060	0.0010									U
Toluene	0.00058	0.0010									JT
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	44		50.00		88.8	79	119				
Surr: Dibromofluoromethane	45		50.00		90.0	78	119				
Surr: Toluene-d8	44		50.00		88.7	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87291

Sample ID:	VOA11B LCS5 06211	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87291
Client ID:	LCSS	Batch ID:	R87291	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1694241

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0096	0.0010	0.010	0	95.7	75	123				
1,3,5-Trimethylbenzene	0.0097	0.0010	0.010	0	97.1	73	124				
Benzene	0.0097	0.0010	0.010	0	96.8	77	121				
Ethylbenzene	0.0094	0.0010	0.010	0	93.6	76	122				
Isopropylbenzene	0.0094	0.0010	0.010	0	94.5	68	134				
Methyl tert-butyl ether [MTBE]	0.0098	0.0010	0.010	0	97.8	73	125				
n-Butylbenzene	0.0096	0.0010	0.010	0	96.0	70	128				
n-Propylbenzene	0.0094	0.0010	0.010	0	93.5	73	125				
Naphthalene	0.0085	0.0050	0.010	0	84.7	62	129				
p-Isopropyltoluene [p-Cymene]	0.0096	0.0010	0.010	0	96.1	73	127				
sec-Butylbenzene	0.010	0.0020	0.010	0	101	73	126				
tert-Butylbenzene	0.0096	0.0010	0.010	0	95.9	73	125				
Toluene	0.0096	0.0010	0.010	0	96.5	77	121				
Xylene (Total)	0.028	0.0030	0.030	0	94.0	78	124				
Surr: 4-Bromofluorobenzene	60		60.00		100	79	119				
Surr: Dibromofluoromethane	58		60.00		97.2	78	119				
Surr: Toluene-d8	57		60.00		95.2	85	116				

Sample ID:	VOA11B LCSD5 0621	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87291
Client ID:	LCSS02	Batch ID:	R87291	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1694242

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.0098	0.0010	0.010	0	97.5	75	123	0.0096	1.86	25	
1,3,5-Trimethylbenzene	0.0099	0.0010	0.010	0	99.1	73	124	0.0097	2.04	25	
Benzene	0.010	0.0010	0.010	0	100	77	121	0.0097	3.35	25	
Ethylbenzene	0.0096	0.0010	0.010	0	96.3	76	122	0.0094	2.84	25	
Isopropylbenzene	0.0097	0.0010	0.010	0	96.6	68	134	0.0094	2.20	25	
Methyl tert-butyl ether [MTBE]	0.0095	0.0010	0.010	0	94.7	73	125	0.0098	3.22	25	
n-Butylbenzene	0.0098	0.0010	0.010	0	98.3	70	128	0.0096	2.37	25	
n-Propylbenzene	0.0095	0.0010	0.010	0	94.6	73	125	0.0094	1.17	25	
Naphthalene	0.0074	0.0050	0.010	0	73.5	62	129	0.0085	14.2	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87291

Sample ID:	VOA11B LCSD5 0621	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87291
Client ID:	LCSS02	Batch ID:	R87291	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1694242

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.0098	0.0010	0.010	0	97.9	73	127	0.0096	1.86	25	
sec-Butylbenzene	0.010	0.0020	0.010	0	102	73	126	0.010	1.58	25	
tert-Butylbenzene	0.0098	0.0010	0.010	0	98.2	73	125	0.0096	2.37	25	
Toluene	0.0098	0.0010	0.010	0	98.5	77	121	0.0096	2.05	25	
Xylene (Total)	0.029	0.0030	0.030	0	95.9	78	124	0.028	1.93	25	
Surr: 4-Bromofluorobenzene	60		60.00		99.8	79	119		0	25	
Surr: Dibromofluoromethane	59		60.00		98.0	78	119		0	25	
Surr: Toluene-d8	59		60.00		97.8	85	116		0	25	

Sample ID:	VOA11B MBLK5 0621	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	87291
Client ID:	PBS	Batch ID:	R87291	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1694244

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.00060	0.0010									U
1,3,5-Trimethylbenzene	0.00060	0.0010									U
Benzene	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Isopropylbenzene	0.00060	0.0010									U
Methyl tert-butyl ether [MTBE]	0.00060	0.0010									U
n-Butylbenzene	0.00060	0.0010									U
n-Propylbenzene	0.00060	0.0010									U
Naphthalene	0.00060	0.0050									U
p-Isopropyltoluene [p-Cymene]	0.00060	0.0010									U
sec-Butylbenzene	0.0010	0.0020									U
tert-Butylbenzene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	45		50.00		90.3	79	119				
Surr: Dibromofluoromethane	47		50.00		94.6	78	119				
Surr: Toluene-d8	44		50.00		89.0	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87296

Sample ID:	VOA11B LCS5 0628	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87296
Client ID:	LCSS	Batch ID:	R87296	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1694309

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.44	0.050	0.50	0	89.0	75	123				
1,3,5-Trimethylbenzene	0.46	0.050	0.50	0	91.8	73	124				
Benzene	0.49	0.050	0.50	0	98.0	77	121				
Ethylbenzene	0.45	0.050	0.50	0	90.2	76	122				
Isopropylbenzene	0.47	0.050	0.50	0	93.5	68	134				
Methyl tert-butyl ether [MTBE]	0.46	0.10	0.50	0	92.9	73	125				
n-Butylbenzene	0.51	0.050	0.50	0	101	70	128				
n-Propylbenzene	0.45	0.050	0.50	0	89.8	73	125				
Naphthalene	0.60	0.25	0.50	0	119	62	129				
p-Isopropyltoluene [p-Cymene]	0.49	0.050	0.50	0	98.4	73	127				
sec-Butylbenzene	0.50	0.050	0.50	0	99.3	73	126				
tert-Butylbenzene	0.48	0.050	0.50	0	95.2	73	125				
Toluene	0.46	0.050	0.50	0	92.4	77	121				
Xylene (Total)	1.4	0.15	1.5	0	91.3	78	124				
Surr: 4-Bromofluorobenzene	2,900		3,000		96.6	79	119				
Surr: Dibromofluoromethane	3,000		3,000		102	78	119				
Surr: Toluene-d8	2,900		3,000		96.2	85	116				

Sample ID:	VOA11B MBLK5 062	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87296
Client ID:	PBS	Batch ID:	R87296	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1694311

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.030	0.050									U
1,3,5-Trimethylbenzene	0.030	0.050									U
Benzene	0.030	0.050									U
Ethylbenzene	0.030	0.050									U
Isopropylbenzene	0.030	0.050									U
Methyl tert-butyl ether [MTBE]	0.030	0.10									U
n-Butylbenzene	0.030	0.050									U
n-Propylbenzene	0.030	0.050									U
Naphthalene	0.030	0.25									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87296

Sample ID:	VOA11B MBLK5 062	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87296
Client ID:	PBS	Batch ID:	R87296	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1694311

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.030	0.050									U
sec-Butylbenzene	0.030	0.050									U
tert-Butylbenzene	0.030	0.050									U
Toluene	0.030	0.050									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,300		2,500		92.0	79	119				
Surr: Dibromofluoromethane	2,500		2,500		102	78	119				
Surr: Toluene-d8	2,300		2,500		93.5	85	116				

Sample ID:	1606585-018CMS-1	Samp Type:	MS	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87296
Client ID:	H2-SS02-02MS1	Batch ID:	R87296	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1699555

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.90	0.10	1.0	0	87.6	75	123				
1,3,5-Trimethylbenzene	0.92	0.10	1.0	0	89.8	73	124				
Benzene	1.0	0.10	1.0	0	99.2	77	121				
Ethylbenzene	0.92	0.10	1.0	0	90.0	76	122				
Isopropylbenzene	0.93	0.10	1.0	0	91.1	68	134				
Methyl tert-butyl ether [MTBE]	0.96	0.20	1.0	0	93.5	73	125				
n-Butylbenzene	0.93	0.10	1.0	0	90.8	70	128				
n-Propylbenzene	0.88	0.10	1.0	0	86.5	73	125				
Naphthalene	0.79	0.51	1.0	0	77.3	62	129				
p-Isopropyltoluene [p-Cymene]	0.95	0.10	1.0	0	93.1	73	127				
sec-Butylbenzene	0.97	0.10	1.0	0	94.9	73	126				
tert-Butylbenzene	0.94	0.10	1.0	0	92.2	73	125				
Toluene	0.96	0.10	1.0	0	93.5	77	121				
Xylene (Total)	2.8	0.31	3.1	0	90.4	78	124				
Surr: 4-Bromofluorobenzene	5,900		6,139		96.5	79	119				
Surr: Dibromofluoromethane	6,200		6,139		101	78	119				
Surr: Toluene-d8	5,900		6,139		96.6	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87296

Sample ID:	1606585-018CMSD-1	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87296
Client ID:	H2-SS02-02SD1	Batch ID:	R87296	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1699556

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.86	0.10	1.0	0	84.1	75	123	0.90	4.08	25	
1,3,5-Trimethylbenzene	0.88	0.10	1.0	0	85.8	73	124	0.92	4.56	25	
Benzene	0.96	0.10	1.0	0	94.3	77	121	1.0	5.06	25	
Ethylbenzene	0.87	0.10	1.0	0	85.5	76	122	0.92	5.13	25	
Isopropylbenzene	0.88	0.10	1.0	0	85.8	68	134	0.93	5.99	25	
Methyl tert-butyl ether [MTBE]	0.92	0.20	1.0	0	89.9	73	125	0.96	3.93	25	
n-Butylbenzene	0.92	0.10	1.0	0	89.8	70	128	0.93	1.11	25	
n-Propylbenzene	0.86	0.10	1.0	0	83.8	73	125	0.88	3.17	25	
Naphthalene	0.86	0.51	1.0	0	84.5	62	129	0.79	8.90	25	
p-Isopropyltoluene [p-Cymene]	0.92	0.10	1.0	0	90.3	73	127	0.95	3.05	25	
sec-Butylbenzene	0.95	0.10	1.0	0	93.3	73	126	0.97	1.70	25	
tert-Butylbenzene	0.92	0.10	1.0	0	90.4	73	125	0.94	1.97	25	
Toluene	0.90	0.10	1.0	0	87.5	77	121	0.96	6.63	25	
Xylene (Total)	2.6	0.31	3.1	0	84.3	78	124	2.8	6.99	25	
Surr: 4-Bromofluorobenzene	5,900		6,139		95.8	79	119		0	25	
Surr: Dibromofluoromethane	6,300		6,139		102	78	119		0	25	
Surr: Toluene-d8	5,900		6,139		95.7	85	116		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606585

Date Reported: 8/25/2016
Revision v3

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606585

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061516-05 (5) Batch May16

Database Information | Other Sample Information | Analysis

	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	Field QC	-	-	TB	1	TB-SO-061416-01	6/13/16	0900	WQ	4	044	4			1								Trip Blank
2	STB-SB01	04	05	N	1	STB-SB01-05	6/15/16	0955	SO	5				4	1								
3	STB-SB02	05	06	N	1	STB-SB02-06		0937	SO	5				4	1								
4	STB-SB03	05	06	N	1	STB-SB03-06		0930	SO	5				4	1								
5	STB-SB04	05	06	N	1	STB-SB04-06		1005	SO	5				4	1								
6	STB-SB04	05	06	FD	1	STB-SB04-06DUP		1005	SO	5				4	1								Field Dup
7	STB-SS05	00	01	N	1	STB-SS05-01		1030	SS	5				4	1								
8	STB-SS06	00	01	N	1	STB-SS06-01		1020	SS	5				4	1								
9	STB-SS07	00	01	N	1	STB-SS07-01		1025	SS	5				4	1								
10	WDS-SB20	05	06	N	1	WDS-SB20-06		0915	SO	5				4*	1	**							

		Date	Time		Date	Time
1. Relinquished By / Company	Dan Chicoine / AECOM	6/15/16	1400	1. Received By / Company	REFER TO FEDEX	6/15/16	1400
2. Relinquished By / Company		Date	Time	2. Received By / Company	[illegible] / ICT	6/16/16	730
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. 8105 0202 5660

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

* ID updated per email KG

** WDS-VOC-full list according to sample plan KG

4 [illegible] 10

160078585

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/15/16-05
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
H1-SS01	00	01	N	1	H1-SS01-01	6/15/16	0840	SS	5	044	4			1								
H1-SS01	01	02	N	1	H1-SS01-02		0850	SS			1											
H1-SS02	00	01	N	1	H1-SS02-01		0900	SS														
H1-SS02	01	02	N	1	H1-SS02-02		0905	SS														
H2-SS01	00	01	N	1	H2-SS01-01		~~0950~~ 0940	SS														
H2-SS01	01	02	N	1	H2-SS01-02		0950	SS														
H2-SS02	00	01	N	1	H2-SS02-01		1000	SS														
H2-SS02	01	02	N	1	H2-SS02-02		1010	SS														
H2-SS02	01	02	MS	1	H2-SS02-02MS		1010	SS														matrix spike
H2-SS02	01	02	SD	1	H2-SS02-02MSD		1010	SS														spike Dup

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
[illegible] / AECOM	6/15/16	1400	XFER TO FEDEX	6/15/16	1400
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			[illegible] / RTI Labs	6/16/16	0852
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 0282 5660

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

[illegible]

CUSTODY SEALS

Date 10/15/16

Signature

CUSTODY SEALS

Date 10/15/16

Signature

Cooler# 042
Cooler ID: Xtreme 03
tracking# 810302025692

Cooler Temp Blank 3.6°C
CoC ID: 061516-03

CUSTODY SEALS

Date 10/15/16

Signature

Cooler# 044
Cooler ID: Infinity 10
CoC ID 061516-05
track# 810302025660
Cooler Temp Blank 2.4°C

CUSTODY SEALS

Date 10/15/16

Signature

Cooler# 041
Cooler ID: DR-43
CoC ID 061516-02
track# 810302025707
Cooler Temp Blk: 0.8°C

CUSTODY SEALS

Date 10/15/16

Signature

CUSTODY SEALS

Date 10/15/16

Signature

Subject: RE: Camp Hero - COCs_061316
From: "Martin, Amanda (Arlington)" <Amanda.Martin@aecom.com>
Date: 6/16/2016 11:24 AM
To: "Chicoine, Devon" <Devon.Chicoine@aecom.com>
CC: Kathy Griffin <kgriffin@rtilab.com>, "Priess, Kathryn" <Kathryn.Priess@aecom.com>

Hi Devon,

I just noticed a mistake on the COCs from yesterday

COC #061526-05
First line - the trip blank sample ID should be TB-SO-061516-01. (We have 061616 as the date portion on the chain). This was collected on 6/15 not 6/16. The sample on the label may be incorrect as well, I'm not sure.

Thanks
Amanda

Amanda Martin
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-------- Original message --------
From: "Priess, Kathryn" <Kathryn.Priess@aecom.com>
Date: 6/15/16 5:52 PM (GMT-05:00)
To: "Kathy Griffin (kgriffin@rtilab.com)" <kgriffin@rtilab.com>
Cc: "Chicoine, Devon" <Devon.Chicoine@aecom.com>, "Martin, Amanda (Arlington)" <Amanda.Martin@aecom.com>
Subject: RE: Camp Hero - COCs_061316

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606588

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606588-001A	TB-SO-061416-01		6/14/2016 8:00 AM	6/16/2016 9:50 AM	Soil
1606588-001B	TB-SO-061416-01		6/14/2016 8:00 AM	6/16/2016 9:50 AM	Soil
1606588-001C	TB-SO-061416-01		6/14/2016 8:00 AM	6/16/2016 9:50 AM	Soil
1606588-002A	WDS-SB01-01		6/14/2016 2:20 PM	6/16/2016 9:50 AM	Soil
1606588-002B	WDS-SB01-01		6/14/2016 2:20 PM	6/16/2016 9:50 AM	Soil
1606588-002C	WDS-SB01-01		6/14/2016 2:20 PM	6/16/2016 9:50 AM	Soil
1606588-002D	WDS-SB01-01		6/14/2016 2:20 PM	6/16/2016 9:50 AM	Soil
1606588-003A	WDS-SB02-02		6/14/2016 2:35 PM	6/16/2016 9:50 AM	Soil
1606588-003B	WDS-SB02-02		6/14/2016 2:35 PM	6/16/2016 9:50 AM	Soil
1606588-003C	WDS-SB02-02		6/14/2016 2:35 PM	6/16/2016 9:50 AM	Soil
1606588-003D	WDS-SB02-02		6/14/2016 2:35 PM	6/16/2016 9:50 AM	Soil
1606588-004A	WDS-SB03-06		6/14/2016 2:40 PM	6/16/2016 9:50 AM	Soil
1606588-004B	WDS-SB03-06		6/14/2016 2:40 PM	6/16/2016 9:50 AM	Soil
1606588-004C	WDS-SB03-06		6/14/2016 2:40 PM	6/16/2016 9:50 AM	Soil
1606588-004D	WDS-SB03-06		6/14/2016 2:40 PM	6/16/2016 9:50 AM	Soil
1606588-005A	WDS-SB06-05		6/14/2016 9:45 AM	6/16/2016 9:50 AM	Soil
1606588-005B	WDS-SB06-05		6/14/2016 9:45 AM	6/16/2016 9:50 AM	Soil
1606588-005C	WDS-SB06-05		6/14/2016 9:45 AM	6/16/2016 9:50 AM	Soil
1606588-005D	WDS-SB06-05		6/14/2016 9:45 AM	6/16/2016 9:50 AM	Soil
1606588-006A	WDS-SB07-05		6/14/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606588-006B	WDS-SB07-05		6/14/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606588-006C	WDS-SB07-05		6/14/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606588-006D	WDS-SB07-05		6/14/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606588-007A	WDS-SB14-11		6/14/2016 1:10 PM	6/16/2016 9:50 AM	Soil
1606588-007B	WDS-SB14-11		6/14/2016 1:10 PM	6/16/2016 9:50 AM	Soil
1606588-007C	WDS-SB14-11		6/14/2016 1:10 PM	6/16/2016 9:50 AM	Soil
1606588-007D	WDS-SB14-11		6/14/2016 1:10 PM	6/16/2016 9:50 AM	Soil
1606588-008A	WDS-SB15-13		6/14/2016 11:45 AM	6/16/2016 9:50 AM	Soil
1606588-008B	WDS-SB15-13		6/14/2016 11:45 AM	6/16/2016 9:50 AM	Soil
1606588-008C	WDS-SB15-13		6/14/2016 11:45 AM	6/16/2016 9:50 AM	Soil
1606588-008D	WDS-SB15-13		6/14/2016 11:45 AM	6/16/2016 9:50 AM	Soil
1606588-009A	WDS-SB16-13		6/14/2016 12:15 PM	6/16/2016 9:50 AM	Soil
1606588-009B	WDS-SB16-13		6/14/2016 12:15 PM	6/16/2016 9:50 AM	Soil
1606588-009C	WDS-SB16-13		6/14/2016 12:15 PM	6/16/2016 9:50 AM	Soil
1606588-009D	WDS-SB16-13		6/14/2016 12:15 PM	6/16/2016 9:50 AM	Soil
1606588-010A	WDS-SB17-13		6/14/2016 12:50 PM	6/16/2016 9:50 AM	Soil
1606588-010B	WDS-SB17-13		6/14/2016 12:50 PM	6/16/2016 9:50 AM	Soil
1606588-010C	WDS-SB17-13		6/14/2016 12:50 PM	6/16/2016 9:50 AM	Soil
1606588-010D	WDS-SB17-13		6/14/2016 12:50 PM	6/16/2016 9:50 AM	Soil
1606588-011A	MP-SB01-04		6/14/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606588-011B	MP-SB01-04		6/14/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606588-011C	MP-SB01-04		6/14/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606588-011D	MP-SB01-04		6/14/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606588-012A	MP-SB01-04 DUP		6/14/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606588-012B	MP-SB01-04 DUP		6/14/2016 10:25 AM	6/16/2016 9:50 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606588-012C	MP-SB01-04 DUP		6/14/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606588-012D	MP-SB01-04 DUP		6/14/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606588-013A	H21-SS01-01		6/14/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606588-013B	H21-SS01-01		6/14/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606588-013C	H21-SS01-01		6/14/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606588-013D	H21-SS01-01		6/14/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606588-014A	H21-SB01-11		6/14/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606588-014B	H21-SB01-11		6/14/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606588-014C	H21-SB01-11		6/14/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606588-014D	H21-SB01-11		6/14/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606588-015A	H21-SS02-01		6/14/2016 8:50 AM	6/16/2016 9:50 AM	Soil
1606588-015B	H21-SS02-01		6/14/2016 8:50 AM	6/16/2016 9:50 AM	Soil
1606588-015C	H21-SS02-01		6/14/2016 8:50 AM	6/16/2016 9:50 AM	Soil
1606588-015D	H21-SS02-01		6/14/2016 8:50 AM	6/16/2016 9:50 AM	Soil
1606588-016A	H21-SB02-10		6/14/2016 8:55 AM	6/16/2016 9:50 AM	Soil
1606588-016B	H21-SB02-10		6/14/2016 8:55 AM	6/16/2016 9:50 AM	Soil
1606588-016C	H21-SB02-10		6/14/2016 8:55 AM	6/16/2016 9:50 AM	Soil
1606588-016D	H21-SB02-10		6/14/2016 8:55 AM	6/16/2016 9:50 AM	Soil
1606588-017A	H21-SS03-01		6/14/2016 8:30 AM	6/16/2016 9:50 AM	Soil
1606588-017B	H21-SS03-01		6/14/2016 8:30 AM	6/16/2016 9:50 AM	Soil
1606588-017C	H21-SS03-01		6/14/2016 8:30 AM	6/16/2016 9:50 AM	Soil
1606588-017D	H21-SS03-01		6/14/2016 8:30 AM	6/16/2016 9:50 AM	Soil
1606588-018A	H21-SB03-06		6/14/2016 8:35 AM	6/16/2016 9:50 AM	Soil
1606588-018B	H21-SB03-06		6/14/2016 8:35 AM	6/16/2016 9:50 AM	Soil
1606588-018C	H21-SB03-06		6/14/2016 8:35 AM	6/16/2016 9:50 AM	Soil
1606588-018D	H21-SB03-06		6/14/2016 8:35 AM	6/16/2016 9:50 AM	Soil
1606588-019A	WDS-SB04-01		6/14/2016 4:00 PM	6/16/2016 9:50 AM	Soil
1606588-019B	WDS-SB04-01		6/14/2016 4:00 PM	6/16/2016 9:50 AM	Soil
1606588-019C	WDS-SB04-01		6/14/2016 4:00 PM	6/16/2016 9:50 AM	Soil
1606588-019D	WDS-SB04-01		6/14/2016 4:00 PM	6/16/2016 9:50 AM	Soil
1606588-020A	WDS-SB05-01		6/14/2016 4:05 PM	6/16/2016 9:50 AM	Soil
1606588-020B	WDS-SB05-01		6/14/2016 4:05 PM	6/16/2016 9:50 AM	Soil
1606588-020C	WDS-SB05-01		6/14/2016 4:05 PM	6/16/2016 9:50 AM	Soil
1606588-020D	WDS-SB05-01		6/14/2016 4:05 PM	6/16/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical report revision: 9/16/16: Update LOQ for Benzene for samples 1606588-009C, -010C, -013C, -014C, -015C, -016C, -017C, -018C, -019C, -020C.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Report revision 7/17/2016: Revised analytical Summary log for VOC analysis as well as re-imported the STAR VOC list to separate analytical runs for the SEDD EDD files.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Percent Moisture - ASTM-D2216
Volatile Organic Compounds - 8260C-ME
Volatile Organic Compounds - 8260C-ME STAR
Volatile Organic Compounds - 8260C

Samples 1606588-009A, -010A, -011A, -012A, -013A, -014A, -015A, -016A, -017A, -018A, -019A and -020A were initially analyzed twice for Low-Level Volatile Organic Compounds. Responses for internal standards exceeded method specified criteria. Sample re-analyses were performed using the methanol preserved vials. The results for these samples were reported from the methanol vials with associated elevated reporting limits.

Analytical Comments for Test SW_8260S, Analytical Run No 86986, Batch ID R86986:
Sample VOA11B ICV 062716: Chlorodibromomethane exceed the 20% criteria.
Sample VOA11B CCV 062816: Chloromethane exceeds the 20% criteria.
Sample VOA11B LCS 06281: 1,1,1,2-Tetrachloroethane, chloroethane and styrene exceeds limits.
Sample 1606588-019CMS: 1,1,1,2-Tetrachloroethane, bromodichloromethane, chloroethane, cis-1,3-dichloropropene, styrene and trans-1,3-dichloropropene exceed limits.
Sample 1606588-019CMSD: 1,1,1,2-Tetrachloroethane, bromodichloromethane, chloroethane, cis-1,3-dichloropropene, styrene and trans-1,3-dichloropropene exceed limits.
Sample VOA11B CCVE 062816: Chloroethane exceeds the 50% criteria.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86774, Batch ID R86774:
Sample VOA11B CCV2 061816: CCV results for 2-Butanone, 2-Hexanone, Acetone, Bromoform, and Vinyl Acetate exceeded the 20% criteria.
Sample VOA11B MBLK2 061: Acetone present in Method Blank at a concentration >1/2 LOQ.
Sample VOA11B LCS2 0618: Recoveries for Acetone, Bromoform, Methylene chloride exceeded control limits.
Sample VOA11B LCSD2 061: Recoveries for Acetone, Bromoform and Methylene chloride exceeded control limits.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86807, Batch ID R86807:
Sample VOA11B CCV 062116: CCV results for Acetone, Bromoform, Carbon tetrachloride, Vinyl acetate exceeded the 20% criteria.
Sample VOA11B MBLK 0621: Acetone present in Method Blank at a concentration > 1/2 LOQ.
Sample VOA11B LCS 06211: Recoveries for 2-Butanone, and Acetone exceeded control limits.
Sample VOA11B LCSD 0621: Recovery for Acetone exceeded control limits. RPD results for 2-Butanone, and Acetone exceeded control limits.
Sample VOA11B CCVE 062116: Ending CCV results for Vinyl acetate exceeded the 50% criteria.

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606588-001	**Matrix:**	Soil
Client Sample ID:	TB-SO-061416-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00060	U	0.00029	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
1,1,1-Trichloroethane	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
1,1,2,2-Tetrachloroethane	0.00060	U	0.00053	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
1,1,2-Trichloroethane	0.00060	U	0.00039	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
1,1-Dichloroethane	0.00060	U	0.00015	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
1,1-Dichloroethene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
1,2,3-Trichloropropane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
1,2-Dibromo-3-chloropropane	0.0020	U	0.0014	0.0020	0.0050	mg/Kg	1	6/21/2016 10:26 AM
1,2-Dibromoethane	0.00060	U	0.00045	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
1,2-Dichloroethane	0.00060	U	0.00014	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
1,2-Dichloropropane	0.00060	U	0.00028	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
2-Butanone [MEK]	0.010	QU	0.0059	0.010	0.020	mg/Kg	1	6/21/2016 10:26 AM
2-Hexanone	0.0020	U	0.00063	0.0020	0.0050	mg/Kg	1	6/21/2016 10:26 AM
Acetone	0.0096	JYQ	0.00091	0.0020	0.010	mg/Kg	1	6/21/2016 10:26 AM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Bromodichloromethane	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Bromoform	0.00060	YU	0.00033	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Carbon disulfide	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Carbon tetrachloride	0.00060	YU	0.00021	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Chlorobenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Chlorodibromomethane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Chloroethane	0.0010	U	0.00076	0.0010	0.0020	mg/Kg	1	6/21/2016 10:26 AM
Chloroform	0.00060	U	0.00048	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Chloromethane	0.00060	U	0.00034	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
cis-1,2-Dichloroethene	0.00060	U	0.00056	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
cis-1,3-Dichloropropene	0.00060	U	0.00016	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Dichlorodifluoromethane [Freon-12]	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Methylene chloride	0.0020	U	0.0011	0.0020	0.0050	mg/Kg	1	6/21/2016 10:26 AM
Styrene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Tetrachloroethene	0.00060	U	0.00032	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Toluene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
trans-1,2-Dichloroethene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
trans-1,3-Dichloropropene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Trichloroethene	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Trichlorofluoromethane [Freon-11]	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/21/2016 10:26 AM
Vinyl acetate	0.00060	YU	0.00047	0.00060	0.0050	mg/Kg	1	6/21/2016 10:26 AM
Vinyl chloride	0.00060	U	0.00031	0.00060	0.00080	mg/Kg	1	6/21/2016 10:26 AM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg	1	6/21/2016 10:26 AM
Surr: 4-Bromofluorobenzene	94.4			79-119		%Rec	1	6/21/2016 10:26 AM
Surr: Dibromofluoromethane	101			78-119		%Rec	1	6/21/2016 10:26 AM
Surr: Toluene-d8	88.8			85-116		%Rec	1	6/21/2016 10:26 AM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606588-002 **Matrix:** Soil
Client Sample ID: WDS-SB01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00072	U	0.00034	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
1,1,1-Trichloroethane	0.00072	U	0.00025	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
1,1,2,2-Tetrachloroethane	0.00072	U	0.00064	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
1,1,2-Trichloroethane	0.00072	U	0.00047	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
1,1-Dichloroethane	0.00072	U	0.00018	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
1,1-Dichloroethene	0.00072	U	0.00025	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
1,2,3-Trichloropropane	0.00072	U	0.00042	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
1,2-Dibromo-3-chloropropane	0.0024	U	0.0017	0.0024	0.0060	mg/Kg-dry	1.01	6/21/2016 6:44 PM
1,2-Dibromoethane	0.00072	U	0.00054	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
1,2-Dichloroethane	0.00072	U	0.00016	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
1,2-Dichloropropane	0.00072	U	0.00033	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
2-Butanone [MEK]	0.017	JQ	0.0071	0.012	0.024	mg/Kg-dry	1.01	6/21/2016 6:44 PM
2-Hexanone	0.0024	U	0.00075	0.0024	0.0060	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Acetone	0.22	YQ	0.0011	0.0024	0.012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Benzene	0.00072	U	0.00032	0.00072	0.0010	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Bromodichloromethane	0.00072	U	0.00024	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Bromoform	0.00072	YU	0.00039	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Carbon disulfide	0.00072	U	0.00022	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Carbon tetrachloride	0.00072	YU	0.00026	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Chlorobenzene	0.00072	U	0.00023	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Chlorodibromomethane	0.00072	U	0.00042	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Chloroethane	0.0012	U	0.00091	0.0012	0.0024	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Chloroform	0.00072	U	0.00057	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Chloromethane	0.00072	U	0.00041	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
cis-1,2-Dichloroethene	0.00072	U	0.00067	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
cis-1,3-Dichloropropene	0.00072	U	0.00019	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Dichlorodifluoromethane [Freon-12]	0.00072	U	0.00046	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Ethylbenzene	0.00072	U	0.00027	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Methylene chloride	0.0024	U	0.0013	0.0024	0.0060	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Styrene	0.00072	U	0.00027	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Tetrachloroethene	0.00072	U	0.00038	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Toluene	0.00072	U	0.00032	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
trans-1,2-Dichloroethene	0.00072	U	0.00022	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
trans-1,3-Dichloropropene	0.00072	U	0.00027	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Trichloroethene	0.00072	U	0.00046	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Trichlorofluoromethane [Freon-11]	0.00072	U	0.00027	0.00072	0.0012	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Vinyl acetate	0.00072	YU	0.00057	0.00072	0.0060	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Vinyl chloride	0.00072	U	0.00037	0.00072	0.00096	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Xylene (Total)	0.0022	U	0.00054	0.0022	0.0036	mg/Kg-dry	1.01	6/21/2016 6:44 PM
Surr: 4-Bromofluorobenzene	95.3			79-119		%Rec	1.01	6/21/2016 6:44 PM
Surr: Dibromofluoromethane	102			78-119		%Rec	1.01	6/21/2016 6:44 PM
Surr: Toluene-d8	90.0			85-116		%Rec	1.01	6/21/2016 6:44 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 2:20:00 PM
Project:	Camp Hero		
Lab ID:	1606588-002	**Matrix:**	Soil
Client Sample ID:	WDS-SB01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 2:35:00 PM
Project: Camp Hero
Lab ID: 1606588-003 **Matrix:** Soil
Client Sample ID: WDS-SB02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00073	U	0.00035	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
1,1,1-Trichloroethane	0.00073	U	0.00026	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
1,1,2,2-Tetrachloroethane	0.00073	U	0.00064	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
1,1,2-Trichloroethane	0.00073	U	0.00047	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
1,1-Dichloroethane	0.00073	U	0.00018	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
1,1-Dichloroethene	0.00073	U	0.00025	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
1,2,3-Trichloropropane	0.00073	U	0.00043	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
1,2-Dibromo-3-chloropropane	0.0024	U	0.0017	0.0024	0.0061	mg/Kg-dry	1.07	6/19/2016 5:23 PM
1,2-Dibromoethane	0.00073	U	0.00055	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
1,2-Dichloroethane	0.00073	U	0.00016	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
1,2-Dichloropropane	0.00073	U	0.00034	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
2-Butanone [MEK]	0.0080	JY	0.0072	0.012	0.024	mg/Kg-dry	1.07	6/19/2016 5:23 PM
2-Hexanone	0.0024	YU	0.00076	0.0024	0.0061	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Acetone	0.093	BYQ	0.0011	0.0024	0.012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Benzene	0.00062	J	0.00033	0.00073	0.0010	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Bromodichloromethane	0.00073	U	0.00024	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Bromoform	0.00073	YQU	0.00040	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Carbon disulfide	0.00073	U	0.00023	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Carbon tetrachloride	0.00073	U	0.00026	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Chlorobenzene	0.00073	U	0.00023	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Chlorodibromomethane	0.00073	U	0.00042	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Chloroethane	0.0012	U	0.00092	0.0012	0.0024	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Chloroform	0.00073	U	0.00058	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Chloromethane	0.00073	U	0.00042	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
cis-1,2-Dichloroethene	0.00073	U	0.00068	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
cis-1,3-Dichloropropene	0.00073	U	0.00020	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Dichlorodifluoromethane [Freon-12]	0.00073	U	0.00046	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Ethylbenzene	0.00073	U	0.00027	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Methylene chloride	0.0024	QU	0.0013	0.0024	0.0061	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Styrene	0.00073	U	0.00028	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Tetrachloroethene	0.00073	U	0.00039	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Toluene	0.00073	U	0.00032	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
trans-1,2-Dichloroethene	0.00073	U	0.00023	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
trans-1,3-Dichloropropene	0.00073	U	0.00028	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Trichloroethene	0.00073	U	0.00046	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Trichlorofluoromethane [Freon-11]	0.00073	U	0.00027	0.00073	0.0012	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Vinyl acetate	0.00073	YU	0.00057	0.00073	0.0061	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Vinyl chloride	0.00073	U	0.00037	0.00073	0.00097	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Xylene (Total)	0.0022	U	0.00055	0.0022	0.0036	mg/Kg-dry	1.07	6/19/2016 5:23 PM
Surr: 4-Bromofluorobenzene	91.1			79-119		%Rec	1.07	6/19/2016 5:23 PM
Surr: Dibromofluoromethane	101			78-119		%Rec	1.07	6/19/2016 5:23 PM
Surr: Toluene-d8	88.7			85-116		%Rec	1.07	6/19/2016 5:23 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 2:35:00 PM
Project:	Camp Hero		
Lab ID:	1606588-003	**Matrix:**	Soil
Client Sample ID:	WDS-SB02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 2:40:00 PM
Project:	Camp Hero		
Lab ID:	1606588-004	**Matrix:**	Soil
Client Sample ID:	WDS-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00067	U	0.00032	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
1,1,1-Trichloroethane	0.00067	U	0.00024	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
1,1,2,2-Tetrachloroethane	0.00067	U	0.00059	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
1,1,2-Trichloroethane	0.00067	U	0.00044	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
1,1-Dichloroethane	0.00067	U	0.00017	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
1,1-Dichloroethene	0.00067	U	0.00023	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
1,2,3-Trichloropropane	0.00067	U	0.00039	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
1,2-Dibromo-3-chloropropane	0.0022	U	0.0016	0.0022	0.0056	mg/Kg-dry	0.95	6/19/2016 5:50 PM
1,2-Dibromoethane	0.00067	U	0.00050	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
1,2-Dichloroethane	0.00067	U	0.00015	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
1,2-Dichloropropane	0.00067	U	0.00031	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
2-Butanone [MEK]	0.013	JY	0.0066	0.011	0.022	mg/Kg-dry	0.95	6/19/2016 5:50 PM
2-Hexanone	0.0022	YU	0.00070	0.0022	0.0056	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Acetone	0.097	BYQ	0.0010	0.0022	0.011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Benzene	0.00067	U	0.00030	0.00067	0.0010	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Bromodichloromethane	0.00067	U	0.00022	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Bromoform	0.00067	YQU	0.00036	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Carbon disulfide	0.00094	J	0.00021	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Carbon tetrachloride	0.00067	U	0.00024	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Chlorobenzene	0.00067	U	0.00021	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Chlorodibromomethane	0.00067	U	0.00039	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Chloroethane	0.0011	U	0.00084	0.0011	0.0022	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Chloroform	0.00067	U	0.00053	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Chloromethane	0.00067	U	0.00038	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
cis-1,2-Dichloroethene	0.00067	U	0.00063	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
cis-1,3-Dichloropropene	0.00067	U	0.00018	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Dichlorodifluoromethane [Freon-12]	0.00067	U	0.00043	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Ethylbenzene	0.00067	U	0.00025	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Methylene chloride	0.0022	QU	0.0012	0.0022	0.0056	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Styrene	0.00067	U	0.00025	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Tetrachloroethene	0.00067	U	0.00036	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Toluene	0.00067	U	0.00030	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
trans-1,2-Dichloroethene	0.00067	U	0.00021	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
trans-1,3-Dichloropropene	0.00067	U	0.00025	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Trichloroethene	0.00067	U	0.00043	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Trichlorofluoromethane [Freon-11]	0.00067	U	0.00025	0.00067	0.0011	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Vinyl acetate	0.00067	YU	0.00053	0.00067	0.0056	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Vinyl chloride	0.00067	U	0.00034	0.00067	0.00089	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Xylene (Total)	0.0020	U	0.00051	0.0020	0.0033	mg/Kg-dry	0.95	6/19/2016 5:50 PM
Surr: 4-Bromofluorobenzene	92.0			79-119		%Rec	0.95	6/19/2016 5:50 PM
Surr: Dibromofluoromethane	98.3			78-119		%Rec	0.95	6/19/2016 5:50 PM
Surr: Toluene-d8	88.2			85-116		%Rec	0.95	6/19/2016 5:50 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 2:40:00 PM
Project:	Camp Hero		
Lab ID:	1606588-004	**Matrix:**	Soil
Client Sample ID:	WDS-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/20/2016 11:20 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:45:00 AM
Project:	Camp Hero		
Lab ID:	1606588-005	**Matrix:**	Soil
Client Sample ID:	WDS-SB06-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00063	U	0.00030	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
1,1,1-Trichloroethane	0.00063	U	0.00022	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
1,1,2,2-Tetrachloroethane	0.00063	U	0.00056	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
1,1,2-Trichloroethane	0.00063	U	0.00041	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
1,1-Dichloroethane	0.00063	U	0.00016	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
1,1-Dichloroethene	0.00063	U	0.00022	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
1,2,3-Trichloropropane	0.00063	U	0.00037	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
1,2-Dibromo-3-chloropropane	0.0021	U	0.0015	0.0021	0.0053	mg/Kg-dry	0.95	6/19/2016 6:16 PM
1,2-Dibromoethane	0.00063	U	0.00048	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
1,2-Dichloroethane	0.00063	U	0.00014	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
1,2-Dichloropropane	0.00063	U	0.00029	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
2-Butanone [MEK]	0.011	YU	0.0063	0.011	0.021	mg/Kg-dry	0.95	6/19/2016 6:16 PM
2-Hexanone	0.0021	YU	0.00066	0.0021	0.0053	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Acetone	0.12	BYQ	0.00096	0.0021	0.011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Benzene	0.00063	U	0.00029	0.00063	0.0010	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Bromodichloromethane	0.00063	U	0.00021	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Bromoform	0.00063	YQU	0.00034	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Carbon disulfide	0.00063	U	0.00020	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Carbon tetrachloride	0.00063	U	0.00022	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Chlorobenzene	0.00063	U	0.00020	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Chlorodibromomethane	0.00063	U	0.00037	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Chloroethane	0.0011	U	0.00080	0.0011	0.0021	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Chloroform	0.00063	U	0.00050	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Chloromethane	0.00063	U	0.00036	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
cis-1,2-Dichloroethene	0.00063	U	0.00059	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
cis-1,3-Dichloropropene	0.00063	U	0.00017	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Dichlorodifluoromethane [Freon-12]	0.00063	U	0.00040	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Ethylbenzene	0.00063	U	0.00024	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Methylene chloride	0.0021	QU	0.0011	0.0021	0.0053	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Styrene	0.00063	U	0.00024	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Tetrachloroethene	0.00063	U	0.00034	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Toluene	0.00063	U	0.00028	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
trans-1,2-Dichloroethene	0.00063	U	0.00020	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
trans-1,3-Dichloropropene	0.00063	U	0.00024	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Trichloroethene	0.00063	U	0.00040	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Trichlorofluoromethane [Freon-11]	0.00063	U	0.00024	0.00063	0.0011	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Vinyl acetate	0.00063	YU	0.00050	0.00063	0.0053	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Vinyl chloride	0.00063	U	0.00033	0.00063	0.00084	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Xylene (Total)	0.0019	U	0.00048	0.0019	0.0032	mg/Kg-dry	0.95	6/19/2016 6:16 PM
Surr: 4-Bromofluorobenzene	91.8			79-119		%Rec	0.95	6/19/2016 6:16 PM
Surr: Dibromofluoromethane	99.4			78-119		%Rec	0.95	6/19/2016 6:16 PM
Surr: Toluene-d8	88.9			85-116		%Rec	0.95	6/19/2016 6:16 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:45:00 AM
Project:	Camp Hero		
Lab ID:	1606588-005	**Matrix:**	Soil
Client Sample ID:	WDS-SB06-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 9:30:00 AM
Project: Camp Hero
Lab ID: 1606588-006 **Matrix:** Soil
Client Sample ID: WDS-SB07-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00067	U	0.00032	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
1,1,1-Trichloroethane	0.00067	U	0.00024	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
1,1,2,2-Tetrachloroethane	0.00067	U	0.00060	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
1,1,2-Trichloroethane	0.00067	U	0.00044	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
1,1-Dichloroethane	0.00067	U	0.00017	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
1,1-Dichloroethene	0.00067	U	0.00023	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
1,2,3-Trichloropropane	0.00067	U	0.00040	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
1,2-Dibromo-3-chloropropane	0.0022	U	0.0016	0.0022	0.0056	mg/Kg-dry	0.87	6/19/2016 6:42 PM
1,2-Dibromoethane	0.00067	U	0.00050	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
1,2-Dichloroethane	0.00067	U	0.00015	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
1,2-Dichloropropane	0.00067	U	0.00031	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
2-Butanone [MEK]	0.014	JY	0.0067	0.011	0.022	mg/Kg-dry	0.87	6/19/2016 6:42 PM
2-Hexanone	0.0022	YU	0.00070	0.0022	0.0056	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Acetone	0.22	BYQ	0.0010	0.0022	0.011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Benzene	0.00067	U	0.00030	0.00067	0.0010	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Bromodichloromethane	0.00067	U	0.00023	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Bromoform	0.00067	YQU	0.00037	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Carbon disulfide	0.00067	U	0.00021	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Carbon tetrachloride	0.00067	U	0.00024	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Chlorobenzene	0.00067	U	0.00021	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Chlorodibromomethane	0.00067	U	0.00039	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Chloroethane	0.0011	U	0.00085	0.0011	0.0022	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Chloroform	0.00067	U	0.00053	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Chloromethane	0.00067	U	0.00039	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
cis-1,2-Dichloroethene	0.00067	U	0.00063	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
cis-1,3-Dichloropropene	0.00067	U	0.00018	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Dichlorodifluoromethane [Freon-12]	0.00067	U	0.00043	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Ethylbenzene	0.00067	U	0.00025	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Methylene chloride	0.0022	QU	0.0012	0.0022	0.0056	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Styrene	0.00067	U	0.00026	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Tetrachloroethene	0.00067	U	0.00036	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Toluene	0.00067	U	0.00030	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
trans-1,2-Dichloroethene	0.00067	U	0.00021	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
trans-1,3-Dichloropropene	0.00067	U	0.00026	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Trichloroethene	0.00067	U	0.00043	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Trichlorofluoromethane [Freon-11]	0.00067	U	0.00025	0.00067	0.0011	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Vinyl acetate	0.00067	YU	0.00053	0.00067	0.0056	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Vinyl chloride	0.00067	U	0.00035	0.00067	0.00090	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Xylene (Total)	0.0020	U	0.00051	0.0020	0.0034	mg/Kg-dry	0.87	6/19/2016 6:42 PM
Surr: 4-Bromofluorobenzene	94.0			79-119		%Rec	0.87	6/19/2016 6:42 PM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.87	6/19/2016 6:42 PM
Surr: Toluene-d8	89.8			85-116		%Rec	0.87	6/19/2016 6:42 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:30:00 AM
Project:	Camp Hero		
Lab ID:	1606588-006	**Matrix:**	Soil
Client Sample ID:	WDS-SB07-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	22		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 1:10:00 PM
Project: Camp Hero
Lab ID: 1606588-007 **Matrix:** Soil
Client Sample ID: WDS-SB14-11

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00056	U	0.00027	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
1,1,1-Trichloroethane	0.00056	U	0.00020	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
1,1,2,2-Tetrachloroethane	0.00056	U	0.00050	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
1,1,2-Trichloroethane	0.00056	U	0.00037	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
1,1-Dichloroethane	0.00056	U	0.00014	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
1,1-Dichloroethene	0.00056	U	0.00019	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
1,2,3-Trichloropropane	0.00056	U	0.00033	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
1,2-Dibromo-3-chloropropane	0.0019	U	0.0013	0.0019	0.0047	mg/Kg-dry	0.92	6/19/2016 7:09 PM
1,2-Dibromoethane	0.00056	U	0.00042	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
1,2-Dichloroethane	0.00056	U	0.00013	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
1,2-Dichloropropane	0.00056	U	0.00026	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
2-Butanone [MEK]	0.0094	YU	0.0056	0.0094	0.019	mg/Kg-dry	0.92	6/19/2016 7:09 PM
2-Hexanone	0.0019	YU	0.00059	0.0019	0.0047	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Acetone	0.014	BYQ	0.00086	0.0019	0.0094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Benzene	0.00056	U	0.00025	0.00056	0.0010	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Bromodichloromethane	0.00056	U	0.00019	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Bromoform	0.00056	YQU	0.00031	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Carbon disulfide	0.00056	U	0.00017	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Carbon tetrachloride	0.00056	U	0.00020	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Chlorobenzene	0.00056	U	0.00018	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Chlorodibromomethane	0.00056	U	0.00033	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Chloroethane	0.00094	U	0.00071	0.00094	0.0019	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Chloroform	0.00056	U	0.00045	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Chloromethane	0.00056	U	0.00032	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
cis-1,2-Dichloroethene	0.00056	U	0.00053	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
cis-1,3-Dichloropropene	0.00056	U	0.00015	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Dichlorodifluoromethane [Freon-12]	0.00056	U	0.00036	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Ethylbenzene	0.00056	U	0.00021	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Methylene chloride	0.0019	QU	0.00100	0.0019	0.0047	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Styrene	0.00056	U	0.00021	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Tetrachloroethene	0.00056	U	0.00030	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Toluene	0.00056	U	0.00025	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
trans-1,2-Dichloroethene	0.00056	U	0.00018	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
trans-1,3-Dichloropropene	0.00056	U	0.00021	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Trichloroethene	0.00056	U	0.00036	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Trichlorofluoromethane [Freon-11]	0.00056	U	0.00021	0.00056	0.00094	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Vinyl acetate	0.00056	YU	0.00044	0.00056	0.0047	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Vinyl chloride	0.00056	U	0.00029	0.00056	0.00075	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Xylene (Total)	0.0017	U	0.00043	0.0017	0.0028	mg/Kg-dry	0.92	6/19/2016 7:09 PM
Surr: 4-Bromofluorobenzene	93.5			79-119		%Rec	0.92	6/19/2016 7:09 PM
Surr: Dibromofluoromethane	99.2			78-119		%Rec	0.92	6/19/2016 7:09 PM
Surr: Toluene-d8	89.4			85-116		%Rec	0.92	6/19/2016 7:09 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 1:10:00 PM
Project:	Camp Hero		
Lab ID:	1606588-007	**Matrix:**	Soil
Client Sample ID:	WDS-SB14-11		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	2.1		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 11:45:00 AM
Project: Camp Hero
Lab ID: 1606588-008 **Matrix:** Soil
Client Sample ID: WDS-SB15-13

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00054	U	0.00026	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
1,1,1-Trichloroethane	0.00054	U	0.00019	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
1,1,2,2-Tetrachloroethane	0.00054	U	0.00048	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
1,1,2-Trichloroethane	0.00054	U	0.00035	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
1,1-Dichloroethane	0.00054	U	0.00014	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
1,1-Dichloroethene	0.00054	U	0.00018	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
1,2,3-Trichloropropane	0.00054	U	0.00032	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
1,2-Dibromo-3-chloropropane	0.0018	U	0.0013	0.0018	0.0045	mg/Kg-dry	0.82	6/19/2016 7:35 PM
1,2-Dibromoethane	0.00054	U	0.00041	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
1,2-Dichloroethane	0.00054	U	0.00012	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
1,2-Dichloropropane	0.00054	U	0.00025	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
2-Butanone [MEK]	0.0090	YU	0.0053	0.0090	0.018	mg/Kg-dry	0.82	6/19/2016 7:35 PM
2-Hexanone	0.0018	YU	0.00056	0.0018	0.0045	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Acetone	0.028	BYQ	0.00082	0.0018	0.0090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Benzene	0.00054	U	0.00024	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Bromodichloromethane	0.00054	U	0.00018	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Bromoform	0.00054	YQU	0.00029	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Carbon disulfide	0.00054	U	0.00017	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Carbon tetrachloride	0.00054	U	0.00019	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Chlorobenzene	0.00054	U	0.00017	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Chlorodibromomethane	0.00054	U	0.00031	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Chloroethane	0.00090	U	0.00068	0.00090	0.0018	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Chloroform	0.00054	U	0.00043	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Chloromethane	0.00054	U	0.00031	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
cis-1,2-Dichloroethene	0.00054	U	0.00051	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
cis-1,3-Dichloropropene	0.00054	U	0.00015	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Dichlorodifluoromethane [Freon-12]	0.00054	U	0.00034	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Ethylbenzene	0.00054	U	0.00020	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Methylene chloride	0.0018	QU	0.00095	0.0018	0.0045	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Styrene	0.00054	U	0.00021	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Tetrachloroethene	0.00054	U	0.00029	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Toluene	0.00054	U	0.00024	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
trans-1,2-Dichloroethene	0.00054	U	0.00017	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
trans-1,3-Dichloropropene	0.00054	U	0.00021	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Trichloroethene	0.00054	U	0.00034	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Trichlorofluoromethane [Freon-11]	0.00054	U	0.00020	0.00054	0.00090	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Vinyl acetate	0.00054	YU	0.00043	0.00054	0.0045	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Vinyl chloride	0.00054	U	0.00028	0.00054	0.00072	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Xylene (Total)	0.0016	U	0.00041	0.0016	0.0027	mg/Kg-dry	0.82	6/19/2016 7:35 PM
Surr: 4-Bromofluorobenzene	92.7			79-119		%Rec	0.82	6/19/2016 7:35 PM
Surr: Dibromofluoromethane	102			78-119		%Rec	0.82	6/19/2016 7:35 PM
Surr: Toluene-d8	89.1			85-116		%Rec	0.82	6/19/2016 7:35 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606588-008	**Matrix:**	Soil
Client Sample ID:	WDS-SB15-13		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.0		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 12:15:00 PM
Project:	Camp Hero		
Lab ID:	1606588-009	**Matrix:**	Soil
Client Sample ID:	WDS-SB16-13		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.059	QU	0.024	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
1,1,1-Trichloroethane	0.059	U	0.016	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
1,1,2,2-Tetrachloroethane	0.059	U	0.030	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
1,1,2-Trichloroethane	0.059	U	0.021	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
1,1-Dichloroethane	0.059	U	0.020	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
1,1-Dichloroethene	0.059	U	0.021	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
1,2,3-Trichloropropane	0.059	U	0.046	0.059	0.20	mg/Kg-dry	87.3	6/28/2016 1:25 PM
1,2-Dibromo-3-chloropropane	0.098	ZU	0.084	0.098	0.20	mg/Kg-dry	87.3	6/28/2016 1:25 PM
1,2-Dibromoethane	0.059	U	0.023	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
1,2-Dichloroethane	0.059	U	0.018	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
1,2-Dichloropropane	0.059	U	0.027	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
2-Butanone [MEK]	0.49	U	0.067	0.49	0.98	mg/Kg-dry	87.3	6/28/2016 1:25 PM
2-Hexanone	0.059	U	0.033	0.059	0.49	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Acetone	0.39	U	0.053	0.39	0.49	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Benzene	0.059	U	0.016	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Bromodichloromethane	0.059	QU	0.015	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Bromoform	0.059	U	0.021	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Carbon disulfide	0.059	U	0.045	0.059	0.20	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Carbon tetrachloride	0.059	U	0.019	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Chlorobenzene	0.059	U	0.017	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Chlorodibromomethane	0.059	ZU	0.016	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Chloroethane	0.39	YQ U	0.18	0.39	0.49	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Chloroform	0.059	U	0.016	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Chloromethane	0.17		0.022	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
cis-1,2-Dichloroethene	0.059	U	0.021	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
cis-1,3-Dichloropropene	0.059	U	0.014	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Dichlorodifluoromethane [Freon-12]	0.059	U	0.019	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Ethylbenzene	0.059	U	0.020	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Methylene chloride	0.044	J	0.043	0.059	0.20	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Styrene	0.059	QU	0.016	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Tetrachloroethene	0.059	U	0.023	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Toluene	0.059	U	0.020	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
trans-1,2-Dichloroethene	0.059	U	0.016	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
trans-1,3-Dichloropropene	0.059	U	0.020	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Trichloroethene	0.059	U	0.038	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Trichlorofluoromethane [Freon-11]	0.059	U	0.020	0.059	0.098	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Vinyl acetate	0.059	U	0.040	0.059	2.5	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Vinyl chloride	0.059	U	0.019	0.059	0.078	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Xylene (Total)	0.15	U	0.060	0.15	0.29	mg/Kg-dry	87.3	6/28/2016 1:25 PM
Surr: 4-Bromofluorobenzene	94.5			79-119		%Rec	87.3	6/28/2016 1:25 PM
Surr: Dibromofluoromethane	91.8			78-119		%Rec	87.3	6/28/2016 1:25 PM
Surr: Toluene-d8	93.1			85-116		%Rec	87.3	6/28/2016 1:25 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 12:15:00 PM
Project:	Camp Hero		
Lab ID:	1606588-009	**Matrix:**	Soil
Client Sample ID:	WDS-SB16-13		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606588-010	**Matrix:**	Soil
Client Sample ID:	WDS-SB17-13		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.057	QU	0.023	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
1,1,1-Trichloroethane	0.057	U	0.016	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
1,1,2,2-Tetrachloroethane	0.057	U	0.029	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
1,1,2-Trichloroethane	0.057	U	0.020	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
1,1-Dichloroethane	0.057	U	0.020	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
1,1-Dichloroethene	0.057	U	0.020	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
1,2,3-Trichloropropane	0.057	U	0.045	0.057	0.19	mg/Kg-dry	89.4	6/28/2016 1:50 PM
1,2-Dibromo-3-chloropropane	0.095	ZU	0.082	0.095	0.19	mg/Kg-dry	89.4	6/28/2016 1:50 PM
1,2-Dibromoethane	0.057	U	0.022	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
1,2-Dichloroethane	0.057	U	0.018	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
1,2-Dichloropropane	0.057	U	0.026	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
2-Butanone [MEK]	0.48	U	0.065	0.48	0.95	mg/Kg-dry	89.4	6/28/2016 1:50 PM
2-Hexanone	0.057	U	0.032	0.057	0.48	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Acetone	0.38	U	0.052	0.38	0.48	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Benzene	0.057	U	0.016	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Bromodichloromethane	0.057	QU	0.015	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Bromoform	0.057	U	0.020	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Carbon disulfide	0.057	U	0.043	0.057	0.19	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Carbon tetrachloride	0.057	U	0.018	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Chlorobenzene	0.057	U	0.016	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Chlorodibromomethane	0.057	ZU	0.016	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Chloroethane	0.38	YQ U	0.17	0.38	0.48	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Chloroform	0.057	U	0.016	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Chloromethane	0.16		0.021	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
cis-1,2-Dichloroethene	0.057	U	0.020	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
cis-1,3-Dichloropropene	0.057	U	0.014	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Dichlorodifluoromethane [Freon-12]	0.057	U	0.019	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Ethylbenzene	0.057	U	0.020	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Methylene chloride	0.043	J	0.042	0.057	0.19	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Styrene	0.057	QU	0.015	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Tetrachloroethene	0.057	U	0.022	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Toluene	0.057	U	0.020	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
trans-1,2-Dichloroethene	0.057	U	0.015	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
trans-1,3-Dichloropropene	0.057	U	0.019	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Trichloroethene	0.057	U	0.037	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Trichlorofluoromethane [Freon-11]	0.057	U	0.019	0.057	0.095	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Vinyl acetate	0.057	U	0.039	0.057	2.4	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Vinyl chloride	0.057	U	0.019	0.057	0.076	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Xylene (Total)	0.14	U	0.058	0.14	0.29	mg/Kg-dry	89.4	6/28/2016 1:50 PM
Surr: 4-Bromofluorobenzene	91.9			79-119		%Rec	89.4	6/28/2016 1:50 PM
Surr: Dibromofluoromethane	92.8			78-119		%Rec	89.4	6/28/2016 1:50 PM
Surr: Toluene-d8	93.9			85-116		%Rec	89.4	6/28/2016 1:50 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606588-010	**Matrix:**	Soil
Client Sample ID:	WDS-SB17-13		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	6.3		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 10:25:00 AM
Project:	Camp Hero		
Lab ID:	1606588-011	**Matrix:**	Soil
Client Sample ID:	MP-SB01-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-ME-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.086	U	0.024	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
1,3,5-Trimethylbenzene	0.086	U	0.024	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
Benzene	0.086	U	0.023	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
Ethylbenzene	0.086	U	0.030	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
Isopropylbenzene	0.086	U	0.025	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
Methyl tert-butyl ether [MTBE]	0.086	U	0.035	0.086	0.29	mg/Kg-dry	111.2	6/28/2016 12:36 PM
n-Butylbenzene	0.086	U	0.029	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
n-Propylbenzene	0.086	U	0.031	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
Naphthalene	0.086	U	0.042	0.086	0.72	mg/Kg-dry	111.2	6/28/2016 12:36 PM
p-Isopropyltoluene [p-Cymene]	0.086	U	0.041	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
sec-Butylbenzene	0.086	U	0.028	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
tert-Butylbenzene	0.086	U	0.025	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
Toluene	0.086	U	0.030	0.086	0.14	mg/Kg-dry	111.2	6/28/2016 12:36 PM
Xylene (Total)	0.26	U	0.088	0.26	0.43	mg/Kg-dry	111.2	6/28/2016 12:36 PM
Surr: 4-Bromofluorobenzene	93.5			79-119		%Rec	111.2	6/28/2016 12:36 PM
Surr: Dibromofluoromethane	92.4			78-119		%Rec	111.2	6/28/2016 12:36 PM
Surr: Toluene-d8	93.0			85-116		%Rec	111.2	6/28/2016 12:36 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	23		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 10:25:00 AM
Project:	Camp Hero		
Lab ID:	1606588-012	**Matrix:**	Soil
Client Sample ID:	MP-SB01-04 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Volatile Organic Compounds			**Method: 8260C-ME-STAR**					**Analyst: AS1**
1,2,4-Trimethylbenzene	0.075	U	0.021	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
1,3,5-Trimethylbenzene	0.075	U	0.021	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
Benzene	0.075	U	0.020	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
Ethylbenzene	0.075	U	0.026	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
Isopropylbenzene	0.075	U	0.021	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
Methyl tert-butyl ether [MTBE]	0.075	U	0.030	0.075	0.25	mg/Kg-dry	100.6	6/28/2016 1:00 PM
n-Butylbenzene	0.075	U	0.025	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
n-Propylbenzene	0.075	U	0.027	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
Naphthalene	0.075	U	0.036	0.075	0.62	mg/Kg-dry	100.6	6/28/2016 1:00 PM
p-Isopropyltoluene [p-Cymene]	0.075	U	0.036	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
sec-Butylbenzene	0.075	U	0.025	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
tert-Butylbenzene	0.075	U	0.022	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
Toluene	0.075	U	0.026	0.075	0.12	mg/Kg-dry	100.6	6/28/2016 1:00 PM
Xylene (Total)	0.22	U	0.076	0.22	0.37	mg/Kg-dry	100.6	6/28/2016 1:00 PM
Surr: 4-Bromofluorobenzene	93.3			79-119		%Rec	100.6	6/28/2016 1:00 PM
Surr: Dibromofluoromethane	93.9			78-119		%Rec	100.6	6/28/2016 1:00 PM
Surr: Toluene-d8	93.4			85-116		%Rec	100.6	6/28/2016 1:00 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606588-013	**Matrix:**	Soil
Client Sample ID:	H21-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.070	QU	0.028	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
1,1,1-Trichloroethane	0.070	U	0.019	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
1,1,2,2-Tetrachloroethane	0.070	U	0.036	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
1,1,2-Trichloroethane	0.070	U	0.025	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
1,1-Dichloroethane	0.070	U	0.024	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
1,1-Dichloroethene	0.070	U	0.025	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
1,2,3-Trichloropropane	0.070	U	0.055	0.070	0.23	mg/Kg-dry	99.6	6/28/2016 11:46 AM
1,2-Dibromo-3-chloropropane	0.12	ZU	0.10	0.12	0.23	mg/Kg-dry	99.6	6/28/2016 11:46 AM
1,2-Dibromoethane	0.070	U	0.027	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
1,2-Dichloroethane	0.070	U	0.022	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
1,2-Dichloropropane	0.070	U	0.032	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
2-Butanone [MEK]	0.58	U	0.079	0.58	1.2	mg/Kg-dry	99.6	6/28/2016 11:46 AM
2-Hexanone	0.070	U	0.040	0.070	0.58	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Acetone	0.14	J	0.064	0.47	0.58	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Benzene	0.070	U	0.019	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Bromodichloromethane	0.070	QU	0.018	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Bromoform	0.070	U	0.025	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Carbon disulfide	0.070	U	0.053	0.070	0.23	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Carbon tetrachloride	0.070	U	0.023	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Chlorobenzene	0.070	U	0.020	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Chlorodibromomethane	0.070	ZU	0.020	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Chloroethane	0.47	YQ U	0.21	0.47	0.58	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Chloroform	0.070	U	0.019	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Chloromethane	0.18		0.026	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
cis-1,2-Dichloroethene	0.070	U	0.025	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
cis-1,3-Dichloropropene	0.070	U	0.017	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Dichlorodifluoromethane [Freon-12]	0.070	U	0.023	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Ethylbenzene	0.070	U	0.024	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Methylene chloride	0.054	J	0.051	0.070	0.23	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Styrene	0.070	QU	0.019	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Tetrachloroethene	0.070	U	0.027	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Toluene	0.070	U	0.024	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
trans-1,2-Dichloroethene	0.070	U	0.019	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
trans-1,3-Dichloropropene	0.070	U	0.024	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Trichloroethene	0.070	U	0.045	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Trichlorofluoromethane [Freon-11]	0.070	U	0.023	0.070	0.12	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Vinyl acetate	0.070	U	0.048	0.070	2.9	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Vinyl chloride	0.070	U	0.023	0.070	0.094	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Xylene (Total)	0.18	U	0.071	0.18	0.35	mg/Kg-dry	99.6	6/28/2016 11:46 AM
Surr: 4-Bromofluorobenzene	93.6			79-119		%Rec	99.6	6/28/2016 11:46 AM
Surr: Dibromofluoromethane	91.9			78-119		%Rec	99.6	6/28/2016 11:46 AM
Surr: Toluene-d8	93.2			85-116		%Rec	99.6	6/28/2016 11:46 AM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606588-013	**Matrix:**	Soil
Client Sample ID:	H21-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606588-014	**Matrix:**	Soil
Client Sample ID:	H21-SB01-11		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.076	QU	0.031	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
1,1,1-Trichloroethane	0.076	U	0.021	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
1,1,2,2-Tetrachloroethane	0.076	U	0.039	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
1,1,2-Trichloroethane	0.076	U	0.027	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
1,1-Dichloroethane	0.076	U	0.026	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
1,1-Dichloroethene	0.076	U	0.027	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
1,2,3-Trichloropropane	0.076	U	0.059	0.076	0.25	mg/Kg-dry	111.7	6/28/2016 12:11 PM
1,2-Dibromo-3-chloropropane	0.13	ZU	0.11	0.13	0.25	mg/Kg-dry	111.7	6/28/2016 12:11 PM
1,2-Dibromoethane	0.076	U	0.029	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
1,2-Dichloroethane	0.076	U	0.023	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
1,2-Dichloropropane	0.076	U	0.034	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
2-Butanone [MEK]	0.63	U	0.086	0.63	1.3	mg/Kg-dry	111.7	6/28/2016 12:11 PM
2-Hexanone	0.076	U	0.043	0.076	0.63	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Acetone	0.51	U	0.069	0.51	0.63	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Benzene	0.076	U	0.021	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Bromodichloromethane	0.076	QU	0.020	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Bromoform	0.076	U	0.027	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Carbon disulfide	0.076	U	0.058	0.076	0.25	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Carbon tetrachloride	0.076	U	0.024	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Chlorobenzene	0.076	U	0.022	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Chlorodibromomethane	0.076	ZU	0.021	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Chloroethane	0.51	YQ U	0.23	0.51	0.63	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Chloroform	0.076	U	0.021	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Chloromethane	0.18		0.028	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
cis-1,2-Dichloroethene	0.076	U	0.027	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
cis-1,3-Dichloropropene	0.076	U	0.018	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Dichlorodifluoromethane [Freon-12]	0.076	U	0.025	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Ethylbenzene	0.076	U	0.026	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Methylene chloride	0.076	U	0.055	0.076	0.25	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Styrene	0.076	QU	0.020	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Tetrachloroethene	0.076	U	0.030	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Toluene	0.076	U	0.026	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
trans-1,2-Dichloroethene	0.076	U	0.020	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
trans-1,3-Dichloropropene	0.076	U	0.026	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Trichloroethene	0.076	U	0.049	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Trichlorofluoromethane [Freon-11]	0.076	U	0.025	0.076	0.13	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Vinyl acetate	0.076	U	0.052	0.076	3.2	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Vinyl chloride	0.076	U	0.025	0.076	0.10	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Xylene (Total)	0.19	U	0.078	0.19	0.38	mg/Kg-dry	111.7	6/28/2016 12:11 PM
Surr: 4-Bromofluorobenzene	92.1			79-119		%Rec	111.7	6/28/2016 12:11 PM
Surr: Dibromofluoromethane	92.5			78-119		%Rec	111.7	6/28/2016 12:11 PM
Surr: Toluene-d8	93.3			85-116		%Rec	111.7	6/28/2016 12:11 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606588-014	**Matrix:**	Soil
Client Sample ID:	H21-SB01-11		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606588-015	**Matrix:**	Soil
Client Sample ID:	H21-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.096	QU	0.039	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
1,1,1-Trichloroethane	0.096	U	0.026	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
1,1,2,2-Tetrachloroethane	0.096	U	0.049	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
1,1,2-Trichloroethane	0.096	U	0.034	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
1,1-Dichloroethane	0.096	U	0.033	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
1,1-Dichloroethene	0.096	U	0.034	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
1,2,3-Trichloropropane	0.096	U	0.075	0.096	0.32	mg/Kg-dry	144.3	6/28/2016 10:56 AM
1,2-Dibromo-3-chloropropane	0.16	ZU	0.14	0.16	0.32	mg/Kg-dry	144.3	6/28/2016 10:56 AM
1,2-Dibromoethane	0.096	U	0.037	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
1,2-Dichloroethane	0.096	U	0.030	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
1,2-Dichloropropane	0.096	U	0.043	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
2-Butanone [MEK]	0.80	U	0.11	0.80	1.6	mg/Kg-dry	144.3	6/28/2016 10:56 AM
2-Hexanone	0.096	U	0.055	0.096	0.80	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Acetone	0.27	J	0.087	0.64	0.80	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Benzene	0.096	U	0.026	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Bromodichloromethane	0.096	QU	0.025	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Bromoform	0.096	U	0.034	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Carbon disulfide	0.096	U	0.073	0.096	0.32	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Carbon tetrachloride	0.096	U	0.031	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Chlorobenzene	0.096	U	0.028	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Chlorodibromomethane	0.096	ZU	0.027	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Chloroethane	0.64	YQ U	0.29	0.64	0.80	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Chloroform	0.096	U	0.026	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Chloromethane	0.20		0.036	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
cis-1,2-Dichloroethene	0.096	U	0.034	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
cis-1,3-Dichloropropene	0.096	U	0.023	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Dichlorodifluoromethane [Freon-12]	0.096	U	0.031	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Ethylbenzene	0.096	U	0.033	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Methylene chloride	0.072	J	0.070	0.096	0.32	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Styrene	0.096	QU	0.025	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Tetrachloroethene	0.096	U	0.038	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Toluene	0.096	U	0.033	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
trans-1,2-Dichloroethene	0.096	U	0.026	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
trans-1,3-Dichloropropene	0.096	U	0.033	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Trichloroethene	0.096	U	0.061	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Trichlorofluoromethane [Freon-11]	0.096	U	0.032	0.096	0.16	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Vinyl acetate	0.096	U	0.066	0.096	4.0	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Vinyl chloride	0.096	U	0.031	0.096	0.13	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Xylene (Total)	0.24	U	0.098	0.24	0.48	mg/Kg-dry	144.3	6/28/2016 10:56 AM
Surr: 4-Bromofluorobenzene	94.7			79-119		%Rec	144.3	6/28/2016 10:56 AM
Surr: Dibromofluoromethane	91.7			78-119		%Rec	144.3	6/28/2016 10:56 AM
Surr: Toluene-d8	93.4			85-116		%Rec	144.3	6/28/2016 10:56 AM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606588-015	**Matrix:**	Soil
Client Sample ID:	H21-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:55:00 AM
Project:	Camp Hero		
Lab ID:	1606588-016	**Matrix:**	Soil
Client Sample ID:	H21-SB02-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.056	QU	0.022	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
1,1,1-Trichloroethane	0.056	U	0.015	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
1,1,2,2-Tetrachloroethane	0.056	U	0.028	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
1,1,2-Trichloroethane	0.056	U	0.020	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
1,1-Dichloroethane	0.056	U	0.019	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
1,1-Dichloroethene	0.056	U	0.020	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
1,2,3-Trichloropropane	0.056	U	0.044	0.056	0.19	mg/Kg-dry	83.8	6/28/2016 11:21 AM
1,2-Dibromo-3-chloropropane	0.093	ZU	0.080	0.093	0.19	mg/Kg-dry	83.8	6/28/2016 11:21 AM
1,2-Dibromoethane	0.056	U	0.022	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
1,2-Dichloroethane	0.056	U	0.017	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
1,2-Dichloropropane	0.056	U	0.025	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
2-Butanone [MEK]	0.47	U	0.063	0.47	0.93	mg/Kg-dry	83.8	6/28/2016 11:21 AM
2-Hexanone	0.056	U	0.032	0.056	0.47	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Acetone	0.13	J	0.051	0.37	0.47	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Benzene	0.056	U	0.015	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Bromodichloromethane	0.056	QU	0.015	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Bromoform	0.056	U	0.020	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Carbon disulfide	0.056	U	0.042	0.056	0.19	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Carbon tetrachloride	0.056	U	0.018	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Chlorobenzene	0.056	U	0.016	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Chlorodibromomethane	0.056	ZU	0.016	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Chloroethane	0.37	YQ U	0.17	0.37	0.47	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Chloroform	0.056	U	0.015	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Chloromethane	0.17		0.021	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
cis-1,2-Dichloroethene	0.056	U	0.020	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
cis-1,3-Dichloropropene	0.056	U	0.013	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Dichlorodifluoromethane [Freon-12]	0.056	U	0.018	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Ethylbenzene	0.056	U	0.019	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Methylene chloride	0.070	J	0.040	0.056	0.19	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Styrene	0.056	QU	0.015	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Tetrachloroethene	0.056	U	0.022	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Toluene	0.056	U	0.019	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
trans-1,2-Dichloroethene	0.056	U	0.015	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
trans-1,3-Dichloropropene	0.056	U	0.019	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Trichloroethene	0.056	U	0.036	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Trichlorofluoromethane [Freon-11]	0.056	U	0.019	0.056	0.093	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Vinyl acetate	0.056	U	0.038	0.056	2.3	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Vinyl chloride	0.056	U	0.018	0.056	0.074	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Xylene (Total)	0.14	U	0.057	0.14	0.28	mg/Kg-dry	83.8	6/28/2016 11:21 AM
Surr: 4-Bromofluorobenzene	94.4			79-119		%Rec	83.8	6/28/2016 11:21 AM
Surr: Dibromofluoromethane	91.3			78-119		%Rec	83.8	6/28/2016 11:21 AM
Surr: Toluene-d8	91.8			85-116		%Rec	83.8	6/28/2016 11:21 AM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:55:00 AM
Project:	Camp Hero		
Lab ID:	1606588-016	**Matrix:**	Soil
Client Sample ID:	H21-SB02-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.9		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:30:00 AM
Project:	Camp Hero		
Lab ID:	1606588-017	**Matrix:**	Soil
Client Sample ID:	H21-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.079	QU	0.032	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
1,1,1-Trichloroethane	0.079	U	0.022	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
1,1,2,2-Tetrachloroethane	0.079	U	0.040	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
1,1,2-Trichloroethane	0.079	U	0.028	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
1,1-Dichloroethane	0.079	U	0.027	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
1,1-Dichloroethene	0.079	U	0.028	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
1,2,3-Trichloropropane	0.079	U	0.062	0.079	0.26	mg/Kg-dry	116.1	6/28/2016 10:06 AM
1,2-Dibromo-3-chloropropane	0.13	ZU	0.11	0.13	0.26	mg/Kg-dry	116.1	6/28/2016 10:06 AM
1,2-Dibromoethane	0.079	U	0.031	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
1,2-Dichloroethane	0.079	U	0.024	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
1,2-Dichloropropane	0.079	U	0.036	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
2-Butanone [MEK]	0.66	U	0.090	0.66	1.3	mg/Kg-dry	116.1	6/28/2016 10:06 AM
2-Hexanone	0.079	U	0.045	0.079	0.66	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Acetone	0.23	J	0.072	0.53	0.66	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Benzene	0.079	U	0.022	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Bromodichloromethane	0.079	QU	0.021	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Bromoform	0.079	U	0.028	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Carbon disulfide	0.079	U	0.060	0.079	0.26	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Carbon tetrachloride	0.079	U	0.025	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Chlorobenzene	0.079	U	0.023	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Chlorodibromomethane	0.079	ZU	0.022	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Chloroethane	0.53	YQ U	0.24	0.53	0.66	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Chloroform	0.079	U	0.022	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Chloromethane	0.19		0.030	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
cis-1,2-Dichloroethene	0.079	U	0.028	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
cis-1,3-Dichloropropene	0.079	U	0.019	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Dichlorodifluoromethane [Freon-12]	0.079	U	0.026	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Ethylbenzene	0.079	U	0.027	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Methylene chloride	0.079	U	0.057	0.079	0.26	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Styrene	0.079	QU	0.021	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Tetrachloroethene	0.079	U	0.031	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Toluene	0.079	U	0.027	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
trans-1,2-Dichloroethene	0.079	U	0.021	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
trans-1,3-Dichloropropene	0.079	U	0.027	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Trichloroethene	0.079	U	0.051	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Trichlorofluoromethane [Freon-11]	0.079	U	0.026	0.079	0.13	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Vinyl acetate	0.079	U	0.054	0.079	3.3	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Vinyl chloride	0.079	U	0.026	0.079	0.11	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Xylene (Total)	0.20	U	0.081	0.20	0.40	mg/Kg-dry	116.1	6/28/2016 10:06 AM
Surr: 4-Bromofluorobenzene	94.3			79-119		%Rec	116.1	6/28/2016 10:06 AM
Surr: Dibromofluoromethane	93.1			78-119		%Rec	116.1	6/28/2016 10:06 AM
Surr: Toluene-d8	92.9			85-116		%Rec	116.1	6/28/2016 10:06 AM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:30:00 AM
Project:	Camp Hero		
Lab ID:	1606588-017	**Matrix:**	Soil
Client Sample ID:	H21-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:35:00 AM
Project:	Camp Hero		
Lab ID:	1606588-018	**Matrix:**	Soil
Client Sample ID:	H21-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.073	QU	0.029	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
1,1,1-Trichloroethane	0.073	U	0.020	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
1,1,2,2-Tetrachloroethane	0.073	U	0.037	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
1,1,2-Trichloroethane	0.073	U	0.026	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
1,1-Dichloroethane	0.073	U	0.025	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
1,1-Dichloroethene	0.073	U	0.026	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
1,2,3-Trichloropropane	0.073	U	0.057	0.073	0.24	mg/Kg-dry	104.2	6/28/2016 10:31 AM
1,2-Dibromo-3-chloropropane	0.12	ZU	0.10	0.12	0.24	mg/Kg-dry	104.2	6/28/2016 10:31 AM
1,2-Dibromoethane	0.073	U	0.028	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
1,2-Dichloroethane	0.073	U	0.022	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
1,2-Dichloropropane	0.073	U	0.033	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
2-Butanone [MEK]	0.61	U	0.083	0.61	1.2	mg/Kg-dry	104.2	6/28/2016 10:31 AM
2-Hexanone	0.073	U	0.042	0.073	0.61	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Acetone	0.21	J	0.066	0.49	0.61	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Benzene	0.073	U	0.020	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Bromodichloromethane	0.073	QU	0.019	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Bromoform	0.073	U	0.026	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Carbon disulfide	0.073	U	0.056	0.073	0.24	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Carbon tetrachloride	0.073	U	0.024	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Chlorobenzene	0.073	U	0.021	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Chlorodibromomethane	0.073	ZU	0.020	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Chloroethane	0.49	YQ U	0.22	0.49	0.61	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Chloroform	0.073	U	0.020	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Chloromethane	0.16		0.027	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
cis-1,2-Dichloroethene	0.073	U	0.026	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
cis-1,3-Dichloropropene	0.073	U	0.017	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Dichlorodifluoromethane [Freon-12]	0.073	U	0.024	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Ethylbenzene	0.073	U	0.025	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Methylene chloride	0.073	U	0.053	0.073	0.24	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Styrene	0.073	QU	0.019	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Tetrachloroethene	0.073	U	0.029	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Toluene	0.073	U	0.025	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
trans-1,2-Dichloroethene	0.073	U	0.020	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
trans-1,3-Dichloropropene	0.073	U	0.025	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Trichloroethene	0.073	U	0.047	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Trichlorofluoromethane [Freon-11]	0.073	U	0.024	0.073	0.12	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Vinyl acetate	0.073	U	0.050	0.073	3.1	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Vinyl chloride	0.073	U	0.024	0.073	0.098	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Xylene (Total)	0.18	U	0.075	0.18	0.37	mg/Kg-dry	104.2	6/28/2016 10:31 AM
Surr: 4-Bromofluorobenzene	93.8			79-119		%Rec	104.2	6/28/2016 10:31 AM
Surr: Dibromofluoromethane	93.4			78-119		%Rec	104.2	6/28/2016 10:31 AM
Surr: Toluene-d8	91.8			85-116		%Rec	104.2	6/28/2016 10:31 AM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:35:00 AM
Project:	Camp Hero		
Lab ID:	1606588-018	**Matrix:**	Soil
Client Sample ID:	H21-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 4:00:00 PM
Project:	Camp Hero		
Lab ID:	1606588-019	**Matrix:**	Soil
Client Sample ID:	WDS-SB04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.063	QX U	0.025	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
1,1,1-Trichloroethane	0.063	U	0.017	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
1,1,2,2-Tetrachloroethane	0.063	U	0.032	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
1,1,2-Trichloroethane	0.063	U	0.022	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
1,1-Dichloroethane	0.063	U	0.022	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
1,1-Dichloroethene	0.063	U	0.022	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
1,2,3-Trichloropropane	0.063	U	0.049	0.063	0.21	mg/Kg-dry	94	6/28/2016 5:34 PM
1,2-Dibromo-3-chloropropane	0.11	ZU	0.090	0.11	0.21	mg/Kg-dry	94	6/28/2016 5:34 PM
1,2-Dibromoethane	0.063	U	0.024	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
1,2-Dichloroethane	0.063	U	0.019	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
1,2-Dichloropropane	0.063	U	0.029	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
2-Butanone [MEK]	0.53	U	0.072	0.53	1.1	mg/Kg-dry	94	6/28/2016 5:34 PM
2-Hexanone	0.063	U	0.036	0.063	0.53	mg/Kg-dry	94	6/28/2016 5:34 PM
Acetone	0.11	J	0.057	0.42	0.53	mg/Kg-dry	94	6/28/2016 5:34 PM
Benzene	0.063	U	0.017	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Bromodichloromethane	0.063	QX U	0.017	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Bromoform	0.063	U	0.022	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Carbon disulfide	0.063	U	0.048	0.063	0.21	mg/Kg-dry	94	6/28/2016 5:34 PM
Carbon tetrachloride	0.063	U	0.020	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Chlorobenzene	0.063	U	0.018	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Chlorodibromomethane	0.063	ZU	0.018	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Chloroethane	0.42	YQ XU	0.19	0.42	0.53	mg/Kg-dry	94	6/28/2016 5:34 PM
Chloroform	0.063	U	0.017	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Chloromethane	0.13		0.024	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
cis-1,2-Dichloroethene	0.063	U	0.023	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
cis-1,3-Dichloropropene	0.063	XU	0.015	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Dichlorodifluoromethane [Freon-12]	0.063	U	0.021	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Ethylbenzene	0.063	U	0.022	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Methylene chloride	0.063	U	0.046	0.063	0.21	mg/Kg-dry	94	6/28/2016 5:34 PM
Styrene	0.063	QX U	0.017	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Tetrachloroethene	0.063	U	0.025	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Toluene	0.063	U	0.022	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
trans-1,2-Dichloroethene	0.063	U	0.017	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
trans-1,3-Dichloropropene	0.063	XU	0.021	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Trichloroethene	0.063	U	0.040	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Trichlorofluoromethane [Freon-11]	0.063	U	0.021	0.063	0.11	mg/Kg-dry	94	6/28/2016 5:34 PM
Vinyl acetate	0.063	U	0.043	0.063	2.6	mg/Kg-dry	94	6/28/2016 5:34 PM
Vinyl chloride	0.063	U	0.021	0.063	0.084	mg/Kg-dry	94	6/28/2016 5:34 PM
Xylene (Total)	0.16	U	0.064	0.16	0.32	mg/Kg-dry	94	6/28/2016 5:34 PM
Surr: 4-Bromofluorobenzene	91.6			79-119		%Rec	94	6/28/2016 5:34 PM
Surr: Dibromofluoromethane	93.7			78-119		%Rec	94	6/28/2016 5:34 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 4:00:00 PM
Project:	Camp Hero		
Lab ID:	1606588-019	**Matrix:**	Soil
Client Sample ID:	WDS-SB04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Toluene-d8	93.5			85-116		%Rec	94	6/28/2016 5:34 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 4:05:00 PM
Project:	Camp Hero		
Lab ID:	1606588-020	**Matrix:**	Soil
Client Sample ID:	WDS-SB05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.067	QU	0.027	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
1,1,1-Trichloroethane	0.067	U	0.018	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
1,1,2,2-Tetrachloroethane	0.067	U	0.034	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
1,1,2-Trichloroethane	0.067	U	0.024	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
1,1-Dichloroethane	0.067	U	0.023	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
1,1-Dichloroethene	0.067	U	0.024	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
1,2,3-Trichloropropane	0.067	U	0.052	0.067	0.22	mg/Kg-dry	98.6	6/28/2016 2:15 PM
1,2-Dibromo-3-chloropropane	0.11	ZU	0.096	0.11	0.22	mg/Kg-dry	98.6	6/28/2016 2:15 PM
1,2-Dibromoethane	0.067	U	0.026	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
1,2-Dichloroethane	0.067	U	0.021	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
1,2-Dichloropropane	0.067	U	0.030	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
2-Butanone [MEK]	0.56	U	0.076	0.56	1.1	mg/Kg-dry	98.6	6/28/2016 2:15 PM
2-Hexanone	0.067	U	0.038	0.067	0.56	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Acetone	0.45	U	0.061	0.45	0.56	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Benzene	0.067	U	0.018	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Bromodichloromethane	0.067	QU	0.018	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Bromoform	0.067	U	0.023	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Carbon disulfide	0.067	U	0.051	0.067	0.22	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Carbon tetrachloride	0.067	U	0.022	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Chlorobenzene	0.067	U	0.019	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Chlorodibromomethane	0.067	ZU	0.019	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Chloroethane	0.45	YQ U	0.20	0.45	0.56	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Chloroform	0.067	U	0.018	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Chloromethane	0.14		0.025	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
cis-1,2-Dichloroethene	0.067	U	0.024	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
cis-1,3-Dichloropropene	0.067	U	0.016	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Dichlorodifluoromethane [Freon-12]	0.067	U	0.022	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Ethylbenzene	0.067	U	0.023	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Methylene chloride	0.055	J	0.049	0.067	0.22	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Styrene	0.067	QU	0.018	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Tetrachloroethene	0.067	U	0.026	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Toluene	0.067	U	0.023	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
trans-1,2-Dichloroethene	0.067	U	0.018	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
trans-1,3-Dichloropropene	0.067	U	0.023	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Trichloroethene	0.067	U	0.043	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Trichlorofluoromethane [Freon-11]	0.067	U	0.022	0.067	0.11	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Vinyl acetate	0.067	U	0.046	0.067	2.8	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Vinyl chloride	0.067	U	0.022	0.067	0.089	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Xylene (Total)	0.17	U	0.068	0.17	0.34	mg/Kg-dry	98.6	6/28/2016 2:15 PM
Surr: 4-Bromofluorobenzene	92.8			79-119		%Rec	98.6	6/28/2016 2:15 PM
Surr: Dibromofluoromethane	91.8			78-119		%Rec	98.6	6/28/2016 2:15 PM
Surr: Toluene-d8	93.0			85-116		%Rec	98.6	6/28/2016 2:15 PM

RTI Laboratories - Analytical Report

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 4:05:00 PM
Project:	Camp Hero		
Lab ID:	1606588-020	**Matrix:**	Soil
Client Sample ID:	WDS-SB05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - DATES REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606588-001A	TB-SO-061416-01	6/14/2016 8:00 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/21/2016 10:26 AM	6/21/2016 10:26 AM
1606588-002A	WDS-SB01-01	6/14/2016 2:20 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/21/2016 6:44 PM	6/21/2016 6:44 PM
1606588-002D	WDS-SB01-01	6/14/2016 2:20 PM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606588-003A	WDS-SB02-02	6/14/2016 2:35 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/19/2016 5:23 PM	6/19/2016 5:23 PM
1606588-003D	WDS-SB02-02	6/14/2016 2:35 PM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606588-004A	WDS-SB03-06	6/14/2016 2:40 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/19/2016 5:50 PM	6/19/2016 5:50 PM
1606588-004D	WDS-SB03-06	6/14/2016 2:40 PM	Soil				
				PMOIST-Percent Moisture		6/20/2016 11:20 AM	6/20/2016 11:20 AM
1606588-005A	WDS-SB06-05	6/14/2016 9:45 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/19/2016 6:16 PM	6/19/2016 6:16 PM
1606588-005D	WDS-SB06-05	6/14/2016 9:45 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-006A	WDS-SB07-05	6/14/2016 9:30 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/19/2016 6:42 PM	6/19/2016 6:42 PM
1606588-006D	WDS-SB07-05	6/14/2016 9:30 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-007A	WDS-SB14-11	6/14/2016 1:10 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/19/2016 7:09 PM	6/19/2016 7:09 PM
1606588-007D	WDS-SB14-11	6/14/2016 1:10 PM	Soil				
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-008A	WDS-SB15-13	6/14/2016 11:45 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/19/2016 7:35 PM	6/19/2016 7:35 PM
1606588-008D	WDS-SB15-13	6/14/2016 11:45 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-009C	WDS-SB16-13	6/14/2016 12:15 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 1:25 PM	6/28/2016 1:25 PM

RTI Laboratories - DATES REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606588-009D	WDS-SB16-13	6/14/2016 12:15 PM	Soil	PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-010C	WDS-SB17-13	6/14/2016 12:50 PM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 1:50 PM	6/28/2016 1:50 PM
1606588-010D	WDS-SB17-13	6/14/2016 12:50 PM	Soil	PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-011C	MP-SB01-04	6/14/2016 10:25 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 12:36 PM	6/28/2016 12:36 PM
1606588-011D	MP-SB01-04	6/14/2016 10:25 AM	Soil	PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-012C	MP-SB01-04 DUP	6/14/2016 10:25 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 1:00 PM	6/28/2016 1:00 PM
1606588-012D	MP-SB01-04 DUP	6/14/2016 10:25 AM	Soil	PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-013C	H21-SS01-01	6/14/2016 9:00 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 11:46 AM	6/28/2016 11:46 AM
1606588-013D	H21-SS01-01	6/14/2016 9:00 AM	Soil	PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-014C	H21-SB01-11	6/14/2016 9:05 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 12:11 PM	6/28/2016 12:11 PM
1606588-014D	H21-SB01-11	6/14/2016 9:05 AM	Soil	PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-015C	H21-SS02-01	6/14/2016 8:50 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 10:56 AM	6/28/2016 10:56 AM
1606588-015D	H21-SS02-01	6/14/2016 8:50 AM	Soil	PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-016C	H21-SB02-10	6/14/2016 8:55 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 11:21 AM	6/28/2016 11:21 AM
1606588-016D	H21-SB02-10	6/14/2016 8:55 AM	Soil	PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-017C	H21-SS03-01	6/14/2016 8:30 AM	Soil	SW_8260S-Volatile Organic Compounds		6/28/2016 10:06 AM	6/28/2016 10:06 AM

RTI Laboratories - DATES REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606588-017D	H21-SS03-01	6/14/2016 8:30 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-018C	H21-SB03-06	6/14/2016 8:35 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 10:31 AM	6/28/2016 10:31 AM
1606588-018D	H21-SB03-06	6/14/2016 8:35 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-019C	WDS-SB04-01	6/14/2016 4:00 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 5:34 PM	6/28/2016 5:34 PM
1606588-019D	WDS-SB04-01	6/14/2016 4:00 PM	Soil				
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606588-020C	WDS-SB05-01	6/14/2016 4:05 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 2:15 PM	6/28/2016 2:15 PM
1606588-020D	WDS-SB05-01	6/14/2016 4:05 PM	Soil				
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	**VOA11B LCS2 0618**	Samp Type:	**LCS**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/19/2016**	RunNo:	**86774**
Client ID:	**LCSS**	Batch ID:	**R86774**	TestNo:	**SW8260B**			Analysis Date:	**6/19/2016**	SeqNo:	**1683597**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0093	0.0010	0.010	0	92.9	78	125				
1,1,1-Trichloroethane	0.0099	0.0010	0.010	0	99.2	73	130				
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	101	70	124				
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	100	78	121				
1,1-Dichloroethane	0.011	0.0010	0.010	0	110	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	104	70	131				
1,2,3-Trichloropropane	0.011	0.0010	0.010	0	113	73	125				
1,2-Dibromo-3-chloropropane	0.0090	0.0050	0.010	0	89.6	61	132				
1,2-Dibromoethane	0.010	0.0010	0.010	0	104	78	122				
1,2-Dichloroethane	0.011	0.0010	0.010	0	115	73	128				
1,2-Dichloropropane	0.010	0.0010	0.010	0	103	76	123				
2-Butanone [MEK]	0.013	0.020	0.010	0	126	51	148				Y
2-Hexanone	0.0096	0.0050	0.010	0	96.2	53	145				Y
Acetone	0.020	0.010	0.010	0	202	36	164				YQ
Benzene	0.011	0.00060	0.010	0	106	77	121				
Bromodichloromethane	0.010	0.0010	0.010	0	100	75	127				
Bromoform	0.0065	0.0010	0.010	0	64.7	67	132				YQ
Carbon disulfide	0.0094	0.0010	0.010	0	94.5	63	132				
Carbon tetrachloride	0.010	0.0010	0.010	0	103	70	135				
Chlorobenzene	0.0091	0.0010	0.010	0	90.9	79	120				
Chlorodibromomethane	0.0076	0.0010	0.010	0	75.8	74	126				
Chloroethane	0.013	0.0020	0.010	0	126	59	139				
Chloroform	0.011	0.0010	0.010	0	107	78	123				
Chloromethane	0.012	0.0010	0.010	0	122	50	136				
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	106	77	123				
cis-1,3-Dichloropropene	0.0076	0.0010	0.010	0	76.2	74	126				
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	102	29	149				
Ethylbenzene	0.0090	0.0010	0.010	0	90.4	76	122				
Methylene chloride	0.014	0.0050	0.010	0	140	70	128				Q
Styrene	0.0077	0.0010	0.010	0	77.2	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	VOA11B LCS2 0618	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	LCSS	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683597

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0081	0.0010	0.010	0	81.0	73	128				
Toluene	0.0095	0.0010	0.010	0	95.0	77	121				
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	112	74	125				
trans-1,3-Dichloropropene	0.0079	0.0010	0.010	0	78.6	71	130				
Trichloroethene	0.0090	0.0010	0.010	0	90.3	77	123				
Trichlorofluoromethane [Freon-11]	0.013	0.0010	0.010	0	126	62	140				
Vinyl acetate	0.014	0.0050	0.010	0	136	50	151				Y
Vinyl chloride	0.013	0.00080	0.010	0	127	56	135				
Xylene (Total)	0.027	0.0030	0.030	0	88.7	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.7	79	119				
Surr: Dibromofluoromethane	60		60.00		100	78	119				
Surr: Toluene-d8	58		60.00		96.8	85	116				

Sample ID:	VOA11B LCSD2 061	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	LCSS02	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683598

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0096	0.0010	0.010	0	96.5	78	125	0.0093	3.80	25	
1,1,1-Trichloroethane	0.010	0.0010	0.010	0	105	73	130	0.0099	5.39	25	
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	102	70	124	0.010	1.48	25	
1,1,2-Trichloroethane	0.011	0.0010	0.010	0	106	78	121	0.010	5.54	25	
1,1-Dichloroethane	0.012	0.0010	0.010	0	116	76	125	0.011	5.56	25	
1,1-Dichloroethene	0.011	0.0010	0.010	0	108	70	131	0.010	3.30	25	
1,2,3-Trichloropropane	0.011	0.0010	0.010	0	107	73	125	0.011	5.10	25	
1,2-Dibromo-3-chloropropane	0.0081	0.0050	0.010	0	80.8	61	132	0.0090	10.3	25	
1,2-Dibromoethane	0.011	0.0010	0.010	0	106	78	122	0.010	1.62	25	
1,2-Dichloroethane	0.012	0.0010	0.010	0	119	73	128	0.011	3.68	25	
1,2-Dichloropropane	0.010	0.0010	0.010	0	105	76	123	0.010	1.93	25	
2-Butanone [MEK]	0.013	0.020	0.010	0	127	51	148	0.013	1.11	25	Y
2-Hexanone	0.0097	0.0050	0.010	0	96.8	53	145	0.0096	0.622	25	Y
Acetone	0.020	0.010	0.010	0	204	36	164	0.020	0.887	25	YQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	**VOA11B LCSD2 061**	Samp Type:	**LCSD**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/19/2016**	RunNo:	**86774**
Client ID:	**LCSS02**	Batch ID:	**R86774**	TestNo:	**SW8260B**			Analysis Date:	**6/19/2016**	SeqNo:	**1683598**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.011	0.00060	0.010	0	109	77	121	0.011	2.69	25	
Bromodichloromethane	0.010	0.0010	0.010	0	104	75	127	0.010	3.91	25	
Bromoform	0.0064	0.0010	0.010	0	63.9	67	132	0.0065	1.24	25	YQ
Carbon disulfide	0.0099	0.0010	0.010	0	98.9	63	132	0.0094	4.55	25	
Carbon tetrachloride	0.011	0.0010	0.010	0	106	70	135	0.010	2.87	25	
Chlorobenzene	0.0096	0.0010	0.010	0	96.5	79	120	0.0091	5.98	25	
Chlorodibromomethane	0.0081	0.0010	0.010	0	81.0	74	126	0.0076	6.63	25	
Chloroethane	0.013	0.0020	0.010	0	134	59	139	0.013	6.32	25	
Chloroform	0.011	0.0010	0.010	0	110	78	123	0.011	3.41	25	
Chloromethane	0.012	0.0010	0.010	0	124	50	136	0.012	1.39	25	
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	109	77	123	0.011	2.41	25	
cis-1,3-Dichloropropene	0.0079	0.0010	0.010	0	79.0	74	126	0.0076	3.61	25	
Dichlorodifluoromethane [Freon-12]	0.011	0.0010	0.010	0	110	29	149	0.010	6.80	25	
Ethylbenzene	0.0093	0.0010	0.010	0	93.4	76	122	0.0090	3.26	25	
Methylene chloride	0.015	0.0050	0.010	0	147	70	128	0.014	5.36	25	Q
Styrene	0.0080	0.0010	0.010	0	80.5	76	124	0.0077	4.19	25	
Tetrachloroethene	0.0088	0.0010	0.010	0	88.1	73	128	0.0081	8.40	25	
Toluene	0.0095	0.0010	0.010	0	95.2	77	121	0.0095	0.210	25	
trans-1,2-Dichloroethene	0.012	0.0010	0.010	0	116	74	125	0.011	3.78	25	
trans-1,3-Dichloropropene	0.0083	0.0010	0.010	0	83.0	71	130	0.0079	5.45	25	
Trichloroethene	0.0088	0.0010	0.010	0	87.5	77	123	0.0090	3.15	25	
Trichlorofluoromethane [Freon-11]	0.013	0.0010	0.010	0	130	62	140	0.013	3.21	25	
Vinyl acetate	0.013	0.0050	0.010	0	129	50	151	0.014	4.75	25	Y
Vinyl chloride	0.013	0.00080	0.010	0	129	56	135	0.013	1.79	25	
Xylene (Total)	0.028	0.0030	0.030	0	94.3	78	124	0.027	6.08	25	
Surr: 4-Bromofluorobenzene	58		60.00		97.4	79	119		0	25	
Surr: Dibromofluoromethane	61		60.00		102	78	119		0	25	
Surr: Toluene-d8	59		60.00		98.3	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	VOA11B MBLK2061	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	PBS	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683600

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									YU
2-Hexanone	0.0020	0.0050									YU
Acetone	0.0079	0.010									JYT
Benzene	0.00060	0.00060									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									YU
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0018	0.0050									J
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	VOA11B MBLK2061	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	PBS	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683600

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									YU
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	45		50.00		90.5	79	119				
Surr: Dibromofluoromethane	50		50.00		99.2	78	119				
Surr: Toluene-d8	45		50.00		89.4	85	116				

Sample ID:	1606585-018AMS	Samp Type:	MS	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	ZZZZZZ	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683609

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0097	0.0013	0.013	0	73.8	78	125				Q
1,1,1-Trichloroethane	0.013	0.0013	0.013	0	95.7	73	130				
1,1,2,2-Tetrachloroethane	0.010	0.0013	0.013	0	78.7	70	124				
1,1,2-Trichloroethane	0.011	0.0013	0.013	0	85.4	78	121				
1,1-Dichloroethane	0.012	0.0013	0.013	0	93.2	76	125				
1,1-Dichloroethene	0.013	0.0013	0.013	0	95.5	70	131				
1,2,3-Trichloropropane	0.012	0.0013	0.013	0	92.0	73	125				
1,2-Dibromo-3-chloropropane	0.0088	0.0066	0.013	0	67.3	61	132				
1,2-Dibromoethane	0.011	0.0013	0.013	0	86.8	78	122				
1,2-Dichloroethane	0.014	0.0013	0.013	0	109	73	128				
1,2-Dichloropropane	0.011	0.0013	0.013	0	85.5	76	123				
2-Butanone [MEK]	0.033	0.026	0.013	0.013	153	51	148				Q
2-Hexanone	0.016	0.0066	0.013	0	120	53	145				
Acetone	0.27	0.013	0.013	0.22	384	36	164				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	1606585-018AMS	Samp Type:	MS	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	ZZZZZZ	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683609

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.011	0.00079	0.013	0	85.0	77	121				
Bromodichloromethane	0.011	0.0013	0.013	0	85.6	75	127				
Bromoform	0.0069	0.0013	0.013	0	52.4	67	132				Q
Carbon disulfide	0.010	0.0013	0.013	0	78.7	63	132				
Carbon tetrachloride	0.013	0.0013	0.013	0	96.2	70	135				
Chlorobenzene	0.0082	0.0013	0.013	0	62.5	79	120				Q
Chlorodibromomethane	0.0085	0.0013	0.013	0	64.5	74	126				Q
Chloroethane	0.013	0.0026	0.013	0	98.1	59	139				
Chloroform	0.012	0.0013	0.013	0	92.2	78	123				
Chloromethane	0.013	0.0013	0.013	0	97.0	50	136				
cis-1,2-Dichloroethene	0.012	0.0013	0.013	0	92.1	77	123				
cis-1,3-Dichloropropene	0.0074	0.0013	0.013	0	56.4	74	126				Q
Dichlorodifluoromethane [Freon-12]	0.013	0.0013	0.013	0	101	29	149				
Ethylbenzene	0.0086	0.0013	0.013	0	65.8	76	122				Q
Methylene chloride	0.017	0.0066	0.013	0.0017	115	70	128				
Styrene	0.0058	0.0013	0.013	0	43.9	76	124				Q
Tetrachloroethene	0.0083	0.0013	0.013	0	63.3	73	128				Q
Toluene	0.0097	0.0013	0.013	0	74.2	77	121				Q
trans-1,2-Dichloroethene	0.013	0.0013	0.013	0	96.1	74	125				
trans-1,3-Dichloropropene	0.0077	0.0013	0.013	0	58.3	71	130				Q
Trichloroethene	0.0095	0.0013	0.013	0	72.4	77	123				Q
Trichlorofluoromethane [Freon-11]	0.014	0.0013	0.013	0	109	62	140				
Vinyl acetate	0.016	0.0066	0.013	0	125	50	151				Y
Vinyl chloride	0.013	0.0011	0.013	0	95.4	56	135				
Xylene (Total)	0.025	0.0039	0.039	0	64.1	78	124				Q
Surr: 4-Bromofluorobenzene	73		78.82		93.1	79	119				
Surr: Dibromofluoromethane	77		78.82		98.0	78	119				
Surr: Toluene-d8	73		78.82		92.8	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86774

Sample ID:	1606585-018AMSD	Samp Type:	MSD	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/19/2016	RunNo:	86774
Client ID:	ZZZZZZ	Batch ID:	R86774	TestNo:	SW8260B			Analysis Date:	6/19/2016	SeqNo:	1683610

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0076	0.0011	0.011	0	70.7	78	125	0.0097	24.7	25	Q
1,1,1-Trichloroethane	0.0094	0.0011	0.011	0	88.3	73	130	0.013	28.4	25	R
1,1,2,2-Tetrachloroethane	0.0070	0.0011	0.011	0	65.4	70	124	0.010	38.6	25	RQ
1,1,2-Trichloroethane	0.0083	0.0011	0.011	0	77.9	78	121	0.011	29.5	25	RQ
1,1-Dichloroethane	0.0099	0.0011	0.011	0	93.0	76	125	0.012	20.7	25	
1,1-Dichloroethene	0.0094	0.0011	0.011	0	87.7	70	131	0.013	28.9	25	R
1,2,3-Trichloropropane	0.0065	0.0011	0.011	0	61.2	73	125	0.012	59.5	25	RQ
1,2-Dibromo-3-chloropropane	0.0053	0.0053	0.011	0	49.5	61	132	0.0088	50.2	25	JRQ
1,2-Dibromoethane	0.0070	0.0011	0.011	0	65.1	78	122	0.011	48.4	25	RQ
1,2-Dichloroethane	0.011	0.0011	0.011	0	106	73	128	0.014	23.7	25	
1,2-Dichloropropane	0.0089	0.0011	0.011	0	83.2	76	123	0.011	23.2	25	
2-Butanone [MEK]	0.011	0.021	0.011	0.013	-122	51	148	0.033	200	25	YRQU
2-Hexanone	0.0014	0.0053	0.011	0	13.4	53	145	0.016	167	25	JYRQ
Acetone	0.014	0.011	0.011	0.22	-1,940	36	164	0.27	181	25	BYRQ
Benzene	0.0079	0.00064	0.011	0	74.3	77	121	0.011	33.7	25	RQ
Bromodichloromethane	0.0089	0.0011	0.011	0	82.8	75	127	0.011	23.8	25	
Bromoform	0.0044	0.0011	0.011	0	41.3	67	132	0.0069	43.7	25	YRQ
Carbon disulfide	0.0071	0.0011	0.011	0	66.0	63	132	0.010	37.7	25	R
Carbon tetrachloride	0.0097	0.0011	0.011	0	90.8	70	135	0.013	26.2	25	R
Chlorobenzene	0.0065	0.0011	0.011	0	60.9	79	120	0.0082	23.1	25	Q
Chlorodibromomethane	0.0060	0.0011	0.011	0	56.1	74	126	0.0085	34.2	25	RQ
Chloroethane	0.0099	0.0021	0.011	0	92.4	59	139	0.013	26.4	25	R
Chloroform	0.0093	0.0011	0.011	0	87.4	78	123	0.012	25.8	25	R
Chloromethane	0.0079	0.0011	0.011	0	73.9	50	136	0.013	46.9	25	R
cis-1,2-Dichloroethene	0.0089	0.0011	0.011	0	83.0	77	123	0.012	30.7	25	R
cis-1,3-Dichloropropene	0.0039	0.0011	0.011	0	36.2	74	126	0.0074	62.7	25	RQ
Dichlorodifluoromethane [Freon-12]	0.0099	0.0011	0.011	0	92.5	29	149	0.013	29.4	25	R
Ethylbenzene	0.0065	0.0011	0.011	0	60.9	76	122	0.0086	28.1	25	RQ
Methylene chloride	0.017	0.0053	0.011	0.0017	139	70	128	0.017	1.87	25	Q
Styrene	0.0014	0.0011	0.011	0	13.5	76	124	0.0058	120	25	RQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86774**

Sample ID:	**1606585-018AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/19/2016**	RunNo:	**86774**
Client ID:	**ZZZZZZ**	Batch ID:	**R86774**	TestNo:	**SW8260B**			Analysis Date:	**6/19/2016**	SeqNo:	**1683610**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0072	0.0011	0.011	0	67.1	73	128	0.0083	14.7	25	Q
Toluene	0.0071	0.0011	0.011	0	66.8	77	121	0.0097	30.8	25	RQ
trans-1,2-Dichloroethene	0.010	0.0011	0.011	0	93.4	74	125	0.013	23.3	25	
trans-1,3-Dichloropropene	0.0038	0.0011	0.011	0	35.3	71	130	0.0077	67.9	25	RQ
Trichloroethene	0.0075	0.0011	0.011	0	70.4	77	123	0.0095	23.3	25	Q
Trichlorofluoromethane [Freon-11]	0.011	0.0011	0.011	0	100	62	140	0.014	28.4	25	R
Vinyl acetate	0.013	0.0053	0.011	0	120	50	151	0.016	24.7	25	Y
Vinyl chloride	0.0093	0.00086	0.011	0	87.2	56	135	0.013	29.3	25	R
Xylene (Total)	0.019	0.0032	0.032	0	59.1	78	124	0.025	28.6	25	RQ
Surr: 4-Bromofluorobenzene	60		64.17		93.0	79	119		0	25	
Surr: Dibromofluoromethane	61		64.17		95.7	78	119		0	25	
Surr: Toluene-d8	58		64.17		90.1	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86807

Sample ID:	VOA11B LCS 06211	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	86807
Client ID:	LCSS	Batch ID:	R86807	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684271

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0092	0.0010	0.010	0	92.5	78	125				
1,1,1-Trichloroethane	0.011	0.0010	0.010	0	105	73	130				
1,1,2,2-Tetrachloroethane	0.010	0.0010	0.010	0	100	70	124				
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	101	78	121				
1,1-Dichloroethane	0.010	0.0010	0.010	0	105	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	105	70	131				
1,2,3-Trichloropropane	0.010	0.0010	0.010	0	104	73	125				
1,2-Dibromo-3-chloropropane	0.0098	0.0050	0.010	0	98.2	61	132				
1,2-Dibromoethane	0.010	0.0010	0.010	0	102	78	122				
1,2-Dichloroethane	0.012	0.0010	0.010	0	116	73	128				
1,2-Dichloropropane	0.010	0.0010	0.010	0	101	76	123				
2-Butanone [MEK]	0.016	0.020	0.010	0	160	51	148				Q
2-Hexanone	0.010	0.0050	0.010	0	101	53	145				
Acetone	0.025	0.010	0.010	0	247	36	164				Q
Benzene	0.0097	0.00060	0.010	0	96.8	77	121				
Bromodichloromethane	0.010	0.0010	0.010	0	104	75	127				
Bromoform	0.0072	0.0010	0.010	0	71.7	67	132				Y
Carbon disulfide	0.0092	0.0010	0.010	0	92.4	63	132				
Carbon tetrachloride	0.011	0.0010	0.010	0	113	70	135				Y
Chlorobenzene	0.0093	0.0010	0.010	0	92.9	79	120				
Chlorodibromomethane	0.0081	0.0010	0.010	0	81.0	74	126				
Chloroethane	0.010	0.0020	0.010	0	101	59	139				
Chloroform	0.010	0.0010	0.010	0	105	78	123				
Chloromethane	0.010	0.0010	0.010	0	99.8	50	136				
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	109	77	123				
cis-1,3-Dichloropropene	0.0080	0.0010	0.010	0	80.1	74	126				
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	100	29	149				
Ethylbenzene	0.0094	0.0010	0.010	0	93.6	76	122				
Methylene chloride	0.012	0.0050	0.010	0	125	70	128				
Styrene	0.0079	0.0010	0.010	0	78.7	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86807

Sample ID:	VOA11B LCS 06211	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	86807
Client ID:	LCSS	Batch ID:	R86807	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684271

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0087	0.0010	0.010	0	87.1	73	128				
Toluene	0.0096	0.0010	0.010	0	96.5	77	121				
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	109	74	125				
trans-1,3-Dichloropropene	0.0086	0.0010	0.010	0	85.9	71	130				
Trichloroethene	0.0093	0.0010	0.010	0	93.1	77	123				
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	110	62	140				
Vinyl acetate	0.013	0.0050	0.010	0	134	50	151				Y
Vinyl chloride	0.0100	0.00080	0.010	0	99.5	56	135				
Xylene (Total)	0.028	0.0030	0.030	0	94.0	78	124				
Surr: 4-Bromofluorobenzene	60		60.00		100	79	119				
Surr: Dibromofluoromethane	58		60.00		97.2	78	119				
Surr: Toluene-d8	57		60.00		95.2	85	116				

Sample ID:	VOA11B LCSD 0621	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	86807
Client ID:	LCSS02	Batch ID:	R86807	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684272

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0097	0.0010	0.010	0	96.7	78	125	0.0092	4.44	25	
1,1,1-Trichloroethane	0.011	0.0010	0.010	0	108	73	130	0.011	2.44	25	
1,1,2,2-Tetrachloroethane	0.0092	0.0010	0.010	0	91.9	70	124	0.010	8.64	25	
1,1,2-Trichloroethane	0.0097	0.0010	0.010	0	97.4	78	121	0.010	3.53	25	
1,1-Dichloroethane	0.011	0.0010	0.010	0	107	76	125	0.010	1.80	25	
1,1-Dichloroethene	0.011	0.0010	0.010	0	108	70	131	0.010	2.82	25	
1,2,3-Trichloropropane	0.0095	0.0010	0.010	0	94.7	73	125	0.010	9.74	25	
1,2-Dibromo-3-chloropropane	0.0078	0.0050	0.010	0	78.2	61	132	0.0098	22.7	25	
1,2-Dibromoethane	0.0100	0.0010	0.010	0	99.5	78	122	0.010	2.38	25	
1,2-Dichloroethane	0.012	0.0010	0.010	0	120	73	128	0.012	4.07	25	
1,2-Dichloropropane	0.011	0.0010	0.010	0	106	76	123	0.010	4.75	25	
2-Butanone [MEK]	0.011	0.020	0.010	0	111	51	148	0.016	36.3	25	R
2-Hexanone	0.0090	0.0050	0.010	0	89.5	53	145	0.010	12.1	25	
Acetone	0.018	0.010	0.010	0	178	36	164	0.025	32.2	25	YRQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86807

Sample ID:	VOA11B LCSD 0621	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/21/2016	RunNo:	86807
Client ID:	LCSS02	Batch ID:	R86807	TestNo:	SW8260B			Analysis Date:	6/21/2016	SeqNo:	1684272

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.010	0.00060	0.010	0	100	77	121	0.0097	3.35	25	
Bromodichloromethane	0.011	0.0010	0.010	0	108	75	127	0.010	3.40	25	
Bromoform	0.0068	0.0010	0.010	0	68.4	67	132	0.0072	4.71	25	Y
Carbon disulfide	0.0095	0.0010	0.010	0	95.3	63	132	0.0092	3.09	25	
Carbon tetrachloride	0.012	0.0010	0.010	0	117	70	135	0.011	3.48	25	Y
Chlorobenzene	0.0094	0.0010	0.010	0	93.6	79	120	0.0093	0.751	25	
Chlorodibromomethane	0.0077	0.0010	0.010	0	77.4	74	126	0.0081	4.55	25	
Chloroethane	0.010	0.0020	0.010	0	103	59	139	0.010	2.15	25	
Chloroform	0.011	0.0010	0.010	0	105	78	123	0.010	0.667	25	
Chloromethane	0.010	0.0010	0.010	0	102	50	136	0.010	2.38	25	
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	110	77	123	0.011	0.548	25	
cis-1,3-Dichloropropene	0.0082	0.0010	0.010	0	82.1	74	126	0.0080	2.47	25	
Dichlorodifluoromethane [Freon-12]	0.010	0.0010	0.010	0	99.9	29	149	0.010	0.100	25	
Ethylbenzene	0.0096	0.0010	0.010	0	96.3	76	122	0.0094	2.84	25	
Methylene chloride	0.012	0.0050	0.010	0	120	70	128	0.012	4.08	25	
Styrene	0.0080	0.0010	0.010	0	80.2	76	124	0.0079	1.89	25	
Tetrachloroethene	0.0090	0.0010	0.010	0	90.2	73	128	0.0087	3.50	25	
Toluene	0.0098	0.0010	0.010	0	98.5	77	121	0.0096	2.05	25	
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	114	74	125	0.011	4.14	25	
trans-1,3-Dichloropropene	0.0087	0.0010	0.010	0	87.4	71	130	0.0086	1.73	25	
Trichloroethene	0.0095	0.0010	0.010	0	95.0	77	123	0.0093	2.02	25	
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	114	62	140	0.011	4.11	25	
Vinyl acetate	0.013	0.0050	0.010	0	126	50	151	0.013	6.39	25	Y
Vinyl chloride	0.010	0.00080	0.010	0	105	56	135	0.0100	5.28	25	
Xylene (Total)	0.029	0.0030	0.030	0	95.9	78	124	0.028	1.93	25	
Surr: 4-Bromofluorobenzene	60		60.00		99.8	79	119		0	25	
Surr: Dibromofluoromethane	59		60.00		98.0	78	119		0	25	
Surr: Toluene-d8	59		60.00		97.8	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86807**

Sample ID:	**VOA11B MBLK 0621**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/21/2016**	RunNo:	**86807**
Client ID:	**PBS**	Batch ID:	**R86807**	TestNo:	**SW8260B**			Analysis Date:	**6/21/2016**	SeqNo:	**1684274**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.0049	0.010									JY
Benzene	0.00060	0.00060									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									YU
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									YU
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0020	0.0050									U
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86807**

Sample ID:	**VOA11B MBLK 0621**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/21/2016**	RunNo:	**86807**
Client ID:	**PBS**	Batch ID:	**R86807**	TestNo:	**SW8260B**			Analysis Date:	**6/21/2016**	SeqNo:	**1684274**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									YU
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	45		50.00		90.3	79	119				
Surr: Dibromofluoromethane	47		50.00		94.6	78	119				
Surr: Toluene-d8	44		50.00		89.0	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86818**

Sample ID:	**1606588-005D DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86818**	
Client ID:	**WDS-SB06-05LR1**	Batch ID:	**R86818**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684485**	
Analyte		Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture		10	1.0						10.11	0.916	20	

Sample ID:	**1606593-004C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86818**	
Client ID:	**ZZZZZZ**	Batch ID:	**R86818**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684505**	
Analyte		Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture		12	1.0						12.12	3.55	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86820**

Sample ID:	**1606585-002D DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86820**
Client ID:	**ZZZZZZ**	Batch ID:	**R86820**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684529**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	12	1.0						12.03	3.43	20	

Sample ID:	**1606585-018D DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86820**
Client ID:	**ZZZZZZ**	Batch ID:	**R86820**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684546**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	14	1.0						14.18	1.46	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID: **VOA11B LCS 06281** Samp Type: **LCS** Test Code: **SW_8260S** Units: **mg/Kg** Prep Date: **6/28/2016** RunNo: **86986**

Client ID: **LCSS** Batch ID: **R86986** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687730**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.38	0.050	0.50	0	76.0	78	125				Q
1,1,1-Trichloroethane	0.46	0.050	0.50	0	91.3	73	130				
1,1,2,2-Tetrachloroethane	0.48	0.050	0.50	0	95.0	70	124				
1,1,2-Trichloroethane	0.46	0.050	0.50	0	91.2	78	121				
1,1-Dichloroethane	0.48	0.050	0.50	0	95.1	76	125				
1,1-Dichloroethene	0.47	0.050	0.50	0	94.1	70	131				
1,2,3-Trichloropropane	0.45	0.10	0.50	0	90.9	73	125				
1,2-Dibromo-3-chloropropane	0.52	0.10	0.50	0	104	61	132				Z
1,2-Dibromoethane	0.41	0.050	0.50	0	82.4	78	122				
1,2-Dichloroethane	0.46	0.050	0.50	0	91.9	73	128				
1,2-Dichloropropane	0.48	0.050	0.50	0	95.5	76	123				
2-Butanone [MEK]	0.47	0.50	0.50	0	94.9	51	148				J
2-Hexanone	0.42	0.25	0.50	0	83.5	53	145				
Acetone	0.54	0.25	0.50	0	109	36	164				
Benzene	0.48	0.050	0.50	0	96.4	77	121				
Bromodichloromethane	0.36	0.050	0.50	0	71.8	75	127				Q
Bromoform	0.49	0.050	0.50	0	98.9	67	132				
Carbon disulfide	0.40	0.10	0.50	0	80.6	63	132				
Carbon tetrachloride	0.41	0.050	0.50	0	82.4	70	135				
Chlorobenzene	0.47	0.050	0.50	0	93.4	79	120				
Chlorodibromomethane	0.50	0.050	0.50	0	100	74	126				Z
Chloroethane	0.13	0.25	0.50	0	26.2	59	139				JYQ
Chloroform	0.48	0.050	0.50	0	95.9	78	123				
Chloromethane	0.57	0.050	0.50	0	113	50	136				
cis-1,2-Dichloroethene	0.48	0.050	0.50	0	96.7	77	123				
cis-1,3-Dichloropropene	0.39	0.050	0.50	0	77.9	74	126				
Dichlorodifluoromethane [Freon-12]	0.50	0.050	0.50	0	99.3	29	149				
Ethylbenzene	0.45	0.050	0.50	0	90.8	76	122				
Methylene chloride	0.53	0.10	0.50	0	106	70	128				
Styrene	0.37	0.050	0.50	0	73.4	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID:	VOA11B LCS 06281	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	86986
Client ID:	LCSS	Batch ID:	R86986	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1687730

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.46	0.050	0.50	0	92.0	73	128				
Toluene	0.45	0.050	0.50	0	90.9	77	121				
trans-1,2-Dichloroethene	0.50	0.050	0.50	0	100	74	125				
trans-1,3-Dichloropropene	0.38	0.050	0.50	0	75.4	71	130				
Trichloroethene	0.47	0.050	0.50	0	93.3	77	123				
Trichlorofluoromethane [Freon-11]	0.56	0.050	0.50	0	113	62	140				
Vinyl acetate	0.52	1.2	0.50	0	104	50	151				J
Vinyl chloride	0.45	0.040	0.50	0	90.7	56	135				
Xylene (Total)	1.4	0.15	1.5	0	91.3	78	124				
Surr: 4-Bromofluorobenzene	2,900		3,000		96.2	79	119				
Surr: Dibromofluoromethane	3,000		3,000		99.4	78	119				
Surr: Toluene-d8	2,900		3,000		95.4	85	116				

Sample ID:	VOA11B MBLK 0628	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	86986
Client ID:	PBS	Batch ID:	R86986	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1687732

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.030	0.050									U
1,1,1-Trichloroethane	0.030	0.050									U
1,1,2,2-Tetrachloroethane	0.030	0.050									U
1,1,2-Trichloroethane	0.030	0.050									U
1,1-Dichloroethane	0.030	0.050									U
1,1-Dichloroethene	0.030	0.050									U
1,2,3-Trichloropropane	0.030	0.10									U
1,2-Dibromo-3-chloropropane	0.050	0.10									ZU
1,2-Dibromoethane	0.030	0.050									U
1,2-Dichloroethane	0.030	0.050									U
1,2-Dichloropropane	0.030	0.050									U
2-Butanone [MEK]	0.25	0.50									U
2-Hexanone	0.030	0.25									U
Acetone	0.20	0.25									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86986**

Sample ID:	**VOA11B MBLK 0628**	Samp Type:	**MBLK**	Test Code:	**SW_8260S**	Units:	**mg/Kg**	Prep Date:	**6/28/2016**	RunNo:	**86986**
Client ID:	**PBS**	Batch ID:	**R86986**	TestNo:	**SW8260B**			Analysis Date:	**6/28/2016**	SeqNo:	**1687732**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.030	0.050									U
Bromodichloromethane	0.030	0.050									U
Bromoform	0.030	0.050									U
Carbon disulfide	0.030	0.10									U
Carbon tetrachloride	0.030	0.050									U
Chlorobenzene	0.030	0.050									U
Chlorodibromomethane	0.030	0.050									ZU
Chloroethane	0.20	0.25									YU
Chloroform	0.030	0.050									U
Chloromethane	0.020	0.050									J
cis-1,2-Dichloroethene	0.030	0.050									U
cis-1,3-Dichloropropene	0.030	0.050									U
Dichlorodifluoromethane [Freon-12]	0.030	0.050									U
Ethylbenzene	0.030	0.050									U
Methylene chloride	0.030	0.10									U
Styrene	0.030	0.050									U
Tetrachloroethene	0.030	0.050									U
Toluene	0.030	0.050									U
trans-1,2-Dichloroethene	0.030	0.050									U
trans-1,3-Dichloropropene	0.030	0.050									U
Trichloroethene	0.030	0.050									U
Trichlorofluoromethane [Freon-11]	0.030	0.050									U
Vinyl acetate	0.030	1.2									U
Vinyl chloride	0.030	0.040									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,400		2,500		94.2	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.1	78	119				
Surr: Toluene-d8	2,300		2,500		92.9	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID: **1606588-019CMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **86986**

Client ID: **WDS-SB04-01MS1** Batch ID: **R86986** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1688188**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.81	0.11	1.1	0	76.6	78	125				Q
1,1,1-Trichloroethane	0.99	0.11	1.1	0	94.3	73	130				
1,1,2,2-Tetrachloroethane	1.0	0.11	1.1	0	97.2	70	124				
1,1,2-Trichloroethane	1.0	0.11	1.1	0	95.2	78	121				
1,1-Dichloroethane	1.0	0.11	1.1	0	99.6	76	125				
1,1-Dichloroethene	1.1	0.11	1.1	0	101	70	131				
1,2,3-Trichloropropane	0.82	0.21	1.1	0	78.0	73	125				
1,2-Dibromo-3-chloropropane	0.99	0.21	1.1	0	94.3	61	132				Z
1,2-Dibromoethane	0.87	0.11	1.1	0	82.2	78	122				
1,2-Dichlorobenzene	1.0	0.11	1.1	0	98.5	78	121				
1,2-Dichloroethane	1.0	0.11	1.1	0	98.4	73	128				
1,2-Dichloropropane	1.0	0.11	1.1	0	97.2	76	123				
1,3-Dichlorobenzene	0.99	0.11	1.1	0	94.2	77	121				
2-Butanone [MEK]	1.1	1.1	1.1	0	107	51	148				
2-Hexanone	0.90	0.53	1.1	0	85.6	53	145				
2-Methylnaphthalene	0.61	0.53	1.1	0	58.1	50	150				
Acetone	1.3	0.53	1.1	0.11	116	36	164				
Benzene	1.1	0.11	1.1	0	101	77	121				
Bromodichloromethane	0.72	0.11	1.1	0	68.7	75	127				Q
Bromoform	1.0	0.11	1.1	0	95.1	67	132				
Carbon disulfide	0.82	0.21	1.1	0	78.1	63	132				
Carbon tetrachloride	0.87	0.11	1.1	0	82.3	70	135				
Chlorobenzene	1.0	0.11	1.1	0	94.5	79	120				
Chlorodibromomethane	0.99	0.11	1.1	0	93.6	74	126				Z
Chloroethane	0.34	0.53	1.1	0	32.6	59	139				JYQ
Chloroform	1.1	0.11	1.1	0	101	78	123				
Chloromethane	1.2	0.11	1.1	0.13	104	50	136				
cis-1,2-Dichloroethene	1.0	0.11	1.1	0	94.5	77	123				
cis-1,3-Dichloropropene	0.72	0.11	1.1	0	68.2	74	126				Q
Dichlorodifluoromethane [Freon-12]	1.3	0.11	1.1	0	120	29	149				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID: **1606588-019CMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **86986**

Client ID: **WDS-SB04-01MS1** Batch ID: **R86986** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1688188**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Ethylbenzene	0.98	0.11	1.1	0	92.6	76	122				
Methylene chloride	1.1	0.21	1.1	0	108	70	128				
Naphthalene	0.83	0.53	1.1	0	78.9	62	129				
Styrene	0.75	0.11	1.1	0	70.9	76	124				Q
Tetrachloroethene	0.94	0.11	1.1	0	89.3	73	128				
Toluene	0.99	0.11	1.1	0	94.0	77	121				
trans-1,2-Dichloroethene	1.1	0.11	1.1	0	104	74	125				
trans-1,3-Dichloropropene	0.69	0.11	1.1	0	65.5	71	130				Q
Trichloroethene	0.99	0.11	1.1	0	94.0	77	123				
Trichlorofluoromethane [Freon-11]	1.4	0.11	1.1	0	133	62	140				
Vinyl acetate	1.1	2.6	1.1	0	103	50	151				J
Vinyl chloride	1.1	0.084	1.1	0	100	56	135				
Xylene (Total)	2.9	0.32	3.2	0	91.5	78	124				
Surr: 4-Bromofluorobenzene	6,100		6,323		96.6	79	119				
Surr: Dibromofluoromethane	6,400		6,323		101	78	119				
Surr: Toluene-d8	6,100		6,323		96.2	85	116				

Sample ID: **1606588-019CMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **86986**

Client ID: **WDS-SB04-01SD1** Batch ID: **R86986** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1688189**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.75	0.11	1.1	0	71.2	78	125	0.81	7.31	25	Q
1,1,1-Trichloroethane	0.98	0.11	1.1	0	92.8	73	130	0.99	1.60	25	
1,1,2,2-Tetrachloroethane	1.0	0.11	1.1	0	97.5	70	124	1.0	0.308	25	
1,1,2-Trichloroethane	0.97	0.11	1.1	0	92.1	78	121	1.0	3.31	25	
1,1-Dichloroethane	1.0	0.11	1.1	0	97.9	76	125	1.0	1.72	25	
1,1-Dichloroethene	1.0	0.11	1.1	0	96.5	70	131	1.1	4.75	25	
1,2,3-Trichloropropane	0.91	0.21	1.1	0	86.5	73	125	0.82	10.3	25	
1,2-Dibromo-3-chloropropane	0.94	0.21	1.1	0	89.4	61	132	0.99	5.33	25	Z
1,2-Dibromoethane	0.88	0.11	1.1	0	83.3	78	122	0.87	1.33	25	
1,2-Dichloroethane	1.0	0.11	1.1	0	98.1	73	128	1.0	0.305	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID: **1606588-019CMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **86986**

Client ID: **WDS-SB04-01SD1** Batch ID: **R86986** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1688189**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichloropropane	1.0	0.11	1.1	0	96.1	76	123	1.0	1.14	25	
2-Butanone [MEK]	1.1	1.1	1.1	0	103	51	148	1.1	3.33	25	
2-Hexanone	0.92	0.53	1.1	0	86.9	53	145	0.90	1.51	25	
Acetone	1.3	0.53	1.1	0.11	116	36	164	1.3	0.476	25	
Benzene	1.0	0.11	1.1	0	97.2	77	121	1.1	3.64	25	
Bromodichloromethane	0.74	0.11	1.1	0	70.2	75	127	0.72	2.16	25	Q
Bromoform	0.98	0.11	1.1	0	93.1	67	132	1.0	2.13	25	
Carbon disulfide	0.80	0.21	1.1	0	75.9	63	132	0.82	2.86	25	
Carbon tetrachloride	0.84	0.11	1.1	0	79.4	70	135	0.87	3.59	25	
Chlorobenzene	0.97	0.11	1.1	0	92.3	79	120	1.0	2.36	25	
Chlorodibromomethane	1.0	0.11	1.1	0	95.1	74	126	0.99	1.59	25	Z
Chloroethane	0.33	0.53	1.1	0	31.5	59	139	0.34	3.43	25	JYQ
Chloroform	1.0	0.11	1.1	0	98.7	78	123	1.1	2.50	25	
Chloromethane	1.2	0.11	1.1	0.13	98.8	50	136	1.2	4.93	25	
cis-1,2-Dichloroethene	0.95	0.11	1.1	0	90.4	77	123	1.0	4.43	25	
cis-1,3-Dichloropropene	0.71	0.11	1.1	0	67.8	74	126	0.72	0.588	25	Q
Dichlorodifluoromethane [Freon-12]	1.2	0.11	1.1	0	116	29	149	1.3	3.57	25	
Ethylbenzene	0.94	0.11	1.1	0	89.4	76	122	0.98	3.52	25	
Methylene chloride	1.1	0.21	1.1	0	104	70	128	1.1	3.50	25	
Styrene	0.73	0.11	1.1	0	69.1	76	124	0.75	2.57	25	Q
Tetrachloroethene	0.92	0.11	1.1	0	87.5	73	128	0.94	2.04	25	
Toluene	0.97	0.11	1.1	0	92.4	77	121	0.99	1.72	25	
trans-1,2-Dichloroethene	1.1	0.11	1.1	0	101	74	125	1.1	2.63	25	
trans-1,3-Dichloropropene	0.68	0.11	1.1	0	64.7	71	130	0.69	1.23	25	Q
Trichloroethene	0.97	0.11	1.1	0	91.9	77	123	0.99	2.26	25	
Trichlorofluoromethane [Freon-11]	1.3	0.11	1.1	0	128	62	140	1.4	4.21	25	
Vinyl acetate	1.1	2.6	1.1	0	101	50	151	1.1	1.18	25	J
Vinyl chloride	1.0	0.084	1.1	0	95.1	56	135	1.1	5.32	25	
Xylene (Total)	2.8	0.32	3.2	0	88.1	78	124	2.9	3.79	25	
Surr: 4-Bromofluorobenzene	6,000		6,323		94.7	79	119		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86986**

Sample ID:	**1606588-019CMSD**	Samp Type:	**MSD**	Test Code:	**SW_8260S**	Units:	**mg/Kg-dry**	Prep Date:	**6/28/2016**	RunNo:	**86986**
Client ID:	**WDS-SB04-01SD1**	Batch ID:	**R86986**	TestNo:	**SW8260B**			Analysis Date:	**6/28/2016**	SeqNo:	**1688189**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	6,400		6,323		101	78	119		0	25	
Surr: Toluene-d8	6,100		6,323		96.7	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87294

Sample ID:	VOA11B LCS5 06281	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87294
Client ID:	LCSS	Batch ID:	R87294	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1694291

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.46	0.050	0.50	0	91.2	75	123				
1,3,5-Trimethylbenzene	0.47	0.050	0.50	0	94.6	73	124				
Benzene	0.48	0.050	0.50	0	96.4	77	121				
Ethylbenzene	0.45	0.050	0.50	0	90.8	76	122				
Isopropylbenzene	0.47	0.050	0.50	0	93.9	68	134				
Methyl tert-butyl ether [MTBE]	0.46	0.10	0.50	0	91.8	73	125				
n-Butylbenzene	0.52	0.050	0.50	0	104	70	128				
n-Propylbenzene	0.45	0.050	0.50	0	90.3	73	125				
Naphthalene	0.59	0.25	0.50	0	119	62	129				
p-Isopropyltoluene [p-Cymene]	0.51	0.050	0.50	0	102	73	127				
sec-Butylbenzene	0.51	0.050	0.50	0	102	73	126				
tert-Butylbenzene	0.49	0.050	0.50	0	97.7	73	125				
Toluene	0.45	0.050	0.50	0	90.9	77	121				
Xylene (Total)	1.4	0.15	1.5	0	91.3	78	124				
Surr: 4-Bromofluorobenzene	2,900		3,000		96.2	79	119				
Surr: Dibromofluoromethane	3,000		3,000		99.4	78	119				
Surr: Toluene-d8	2,900		3,000		95.4	85	116				

Sample ID:	VOA11B MBLK5 0628	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87294
Client ID:	PBS	Batch ID:	R87294	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1694293

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.030	0.050									U
1,3,5-Trimethylbenzene	0.030	0.050									U
Benzene	0.030	0.050									U
Ethylbenzene	0.030	0.050									U
Isopropylbenzene	0.030	0.050									U
Methyl tert-butyl ether [MTBE]	0.030	0.10									U
n-Butylbenzene	0.030	0.050									U
n-Propylbenzene	0.030	0.050									U
Naphthalene	0.030	0.25									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87294

Sample ID:	VOA11B MBLK5 0628	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87294
Client ID:	PBS	Batch ID:	R87294	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1694293

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
p-Isopropyltoluene [p-Cymene]	0.030	0.050									U
sec-Butylbenzene	0.030	0.050									U
tert-Butylbenzene	0.030	0.050									U
Toluene	0.030	0.050									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,400		2,500		94.2	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.1	78	119				
Surr: Toluene-d8	2,300		2,500		92.9	85	116				

Sample ID:	1606588-019CMS-1	Samp Type:	MS	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87294
Client ID:	WDS-SB04-01MS1	Batch ID:	R87294	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1697720

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.95	0.11	1.1	0	89.7	75	123				
1,3,5-Trimethylbenzene	0.95	0.11	1.1	0	90.6	73	124				
Benzene	1.1	0.11	1.1	0	101	77	121				
Ethylbenzene	0.98	0.11	1.1	0	92.6	76	122				
Isopropylbenzene	0.98	0.11	1.1	0	92.9	68	134				
Methyl tert-butyl ether [MTBE]	1.0	0.21	1.1	0	96.7	73	125				
n-Butylbenzene	0.96	0.11	1.1	0	90.9	70	128				
n-Propylbenzene	0.92	0.11	1.1	0	87.6	73	125				
Naphthalene	0.83	0.53	1.1	0	78.9	62	129				
p-Isopropyltoluene [p-Cymene]	1.0	0.11	1.1	0	95.0	73	127				
sec-Butylbenzene	1.0	0.11	1.1	0	97.1	73	126				
tert-Butylbenzene	1.0	0.11	1.1	0	94.6	73	125				
Toluene	0.99	0.11	1.1	0	94.0	77	121				
Xylene (Total)	2.9	0.32	3.2	0	91.5	78	124				
Surr: 4-Bromofluorobenzene	6,100		6,323		96.6	79	119				
Surr: Dibromofluoromethane	6,400		6,323		101	78	119				
Surr: Toluene-d8	6,100		6,323		96.2	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87294

Sample ID:	1606588-019CMSD-1	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87294
Client ID:	WDS-SB04-01SD1	Batch ID:	R87294	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1697721

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	0.92	0.11	1.1	0	87.3	75	123	0.95	2.71	25	
1,3,5-Trimethylbenzene	0.95	0.11	1.1	0	89.8	73	124	0.95	0.887	25	
Benzene	1.0	0.11	1.1	0	97.2	77	121	1.1	3.64	25	
Ethylbenzene	0.94	0.11	1.1	0	89.4	76	122	0.98	3.52	25	
Isopropylbenzene	0.97	0.11	1.1	0	91.7	68	134	0.98	1.30	25	
Methyl tert-butyl ether [MTBE]	1.0	0.21	1.1	0	95.5	73	125	1.0	1.25	25	
n-Butylbenzene	1.0	0.11	1.1	0	95.5	70	128	0.96	4.94	25	
n-Propylbenzene	0.91	0.11	1.1	0	86.5	73	125	0.92	1.26	25	
Naphthalene	0.90	0.53	1.1	0	85.6	62	129	0.83	8.15	25	
p-Isopropyltoluene [p-Cymene]	1.0	0.11	1.1	0	94.8	73	127	1.0	0.211	25	
sec-Butylbenzene	1.0	0.11	1.1	0	97.7	73	126	1.0	0.616	25	
tert-Butylbenzene	0.99	0.11	1.1	0	94.4	73	125	1.0	0.212	25	
Toluene	0.97	0.11	1.1	0	92.4	77	121	0.99	1.72	25	
Xylene (Total)	2.8	0.32	3.2	0	88.1	78	124	2.9	3.79	25	
Surr: 4-Bromofluorobenzene	6,000		6,323		94.7	79	119		0	25	
Surr: Dibromofluoromethane	6,400		6,323		101	78	119		0	25	
Surr: Toluene-d8	6,100		6,323		96.7	85	116		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606588

Date Reported: 8/25/2016
Revision v4

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1600588

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061516-03
Batch May16

	Database Information				Other Sample Information						Analysis											
	LOCID	SBD	SED	SA Code	Samp No	Sample I.D. ~~KG~~	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	FIELD QC	-	-	TB	1	TB-SO-061416-01	06/14/16	0800	WQ	4	~~040~~	4											COOLER #42
2	WDS-SB01	-	-	N	1	WDS-SB01-01	06/14/16	1420	SS	5	042	5											
3	WDS-SB02	-	-	N	1	WDS-SB02-02	06/14/16	1435	SO	5		5											
4	WDS-SB03	-	-	N	1	WDS-SB03-06	06/14/16	1440	SO	5		5											
5	WDS-SB06	-	-	N	1	WDS-SB06-05	06/14/16	0945	SO	5		5											
6	WDS-SB07	-	-	N	1	WDS-SB07-05	06/14/16	0930	SO	5		5											
7	WDS-SB14	-	-	N	1	WDS-SB14-11	06/14/16	1310	SO	6		5											
8	WDS-SB15	-	-	N	1	WDS-SB15-13	06/14/16	1145	SO	5		5											
9	WDS-SB16	-	-	N	1	WDS-SB16-13	06/14/16	1215	SO	5		5											
10	WDS-SB17	-	-	N	1	WDS-SB17-13	06/14/16	1250	SO	5		5											
11	MP-SB01	-	-	N	1	MP-SB01-04	06/14/16	1025	SO	5		~~4~~		5									
12	MP-SB01	-	-	FD	1	MP-SB01-04DUP	06/14/16	1025	SO	5		~~4~~		5									
	continued next page →																					

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
AECOM	06/15/16	1100	transfer to FedEx	6/15/16	1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			Kathy Rubin / RTI	6/16/16	0730
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: WDS; Motor Pool;

Shipment Method/Airbill No.: 8103 0202 5692

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

~~*TAT changed per Client (email) KG~~

xtreme3

1606588

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: ~~061316-03~~ Batch May16 061516-03

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
~~H21-SS01~~										~~C2~~												
~~C3~~ H21-SB01	--	--	N	1	H21-SS01-01	06/14/16	0900	SS	5	C4-2	5											COOLER #42
H21-SB01	--	--	N	1	H21-SB01-11	06/14/16	0905	SO	5		5											
H21-SB02	--	--	N	1	H21-SS02-01	06/14/16	0850	SS	5		5											
H21-SB02	--	--	N	1	H21-SB02-10	06/14/16	0855	SO	5		5											
H21-SB03	--	--	N	1	H21-SS03-01	06/14/16	0830	SS	5		5											
H21-SB03	--	--	N	1	H21-SB03-06	06/14/16	0835	SO	5		5											
WDS-SB04	--	--	N	1	WDS-SB04-01	06/14/16	1600	SS	5		5											
WDS-SB05	--	--	N	1	WDS-SB05-01	06/14/16	1605	SS	5		5											

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
[signature] AECOM	06/15/16	1200	Transfer to FedEx	06/15/16	1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			Kathy Griffin / RTI	06/16/16	0730
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 5103 0202 5692

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

xtreme 3

CUSTODY SEALS

Date 10/15/16

Signature

CUSTODY SEALS

Date 10/15/16

Signature

Cooler# 042
Cooler ID: Xtreme 03
tracking# 810302025692

Cooler Temp Blank 3.6°C
CoC ID: 061516-03

CUSTODY SEALS

Date 10/15/16

Signature

CUSTODY SEALS

Date 10/15/16

Signature

Cooler# 044
Cooler ID: Infinity 10
CoC ID 061516-05
track# 810302025660
Cooler Temp Blank 2.4

Cooler# 041
Cooler ID: DR-43
CoC ID 061516-02
track# 810302025707
Cooler Temp Blk: 0.8°C

CUSTODY SEALS

Date 10/15/16

Signature

CUSTODY SEALS

Date 10/15/16

Signature

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Monday, August 29, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606593

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606593-001A	WDS-SB01-01		6/14/2016 2:20 PM	6/16/2016 9:50 AM	Soil
1606593-001B	WDS-SB01-01		6/14/2016 2:20 PM	6/16/2016 9:50 AM	Soil
1606593-001C	WDS-SB01-01		6/14/2016 2:20 PM	6/16/2016 9:50 AM	Soil
1606593-002A	WDS-SB02-02		6/14/2016 2:35 PM	6/16/2016 9:50 AM	Soil
1606593-002B	WDS-SB02-02		6/14/2016 2:35 PM	6/16/2016 9:50 AM	Soil
1606593-002C	WDS-SB02-02		6/14/2016 2:35 PM	6/16/2016 9:50 AM	Soil
1606593-003A	WDS-SB03-06		6/14/2016 2:40 PM	6/16/2016 9:50 AM	Soil
1606593-003B	WDS-SB03-06		6/14/2016 2:40 PM	6/16/2016 9:50 AM	Soil
1606593-003C	WDS-SB03-06		6/14/2016 2:40 PM	6/16/2016 9:50 AM	Soil
1606593-004A	WDS-SB06-05		6/14/2016 9:45 AM	6/16/2016 9:50 AM	Soil
1606593-004B	WDS-SB06-05		6/14/2016 9:45 AM	6/16/2016 9:50 AM	Soil
1606593-004C	WDS-SB06-05		6/14/2016 9:45 AM	6/16/2016 9:50 AM	Soil
1606593-005A	WDS-SB07-05		6/14/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606593-005B	WDS-SB07-05		6/14/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606593-005C	WDS-SB07-05		6/14/2016 9:30 AM	6/16/2016 9:50 AM	Soil
1606593-006A	WDS-SB14-11		6/14/2016 1:10 PM	6/16/2016 9:50 AM	Soil
1606593-006B	WDS-SB14-11		6/14/2016 1:10 PM	6/16/2016 9:50 AM	Soil
1606593-006C	WDS-SB14-11		6/14/2016 1:10 PM	6/16/2016 9:50 AM	Soil
1606593-007A	WDS-SB15-13		6/14/2016 11:45 AM	6/16/2016 9:50 AM	Soil
1606593-007B	WDS-SB15-13		6/14/2016 11:45 AM	6/16/2016 9:50 AM	Soil
1606593-007C	WDS-SB15-13		6/14/2016 11:45 AM	6/16/2016 9:50 AM	Soil
1606593-008A	WDS-SB16-13		6/14/2016 12:15 PM	6/16/2016 9:50 AM	Soil
1606593-008B	WDS-SB16-13		6/14/2016 12:15 PM	6/16/2016 9:50 AM	Soil
1606593-008C	WDS-SB16-13		6/14/2016 12:15 PM	6/16/2016 9:50 AM	Soil
1606593-009A	WDS-SB17-13		6/14/2016 12:50 PM	6/16/2016 9:50 AM	Soil
1606593-009B	WDS-SB17-13		6/14/2016 12:50 PM	6/16/2016 9:50 AM	Soil
1606593-009C	WDS-SB17-13		6/14/2016 12:50 PM	6/16/2016 9:50 AM	Soil
1606593-010A	MP-SB01-04		6/14/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606593-011A	MP-SB01-04 DUP		6/14/2016 10:25 AM	6/16/2016 9:50 AM	Soil
1606593-012A	H21-SS01-01		6/14/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606593-012B	H21-SS01-01		6/14/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606593-012C	H21-SS01-01		6/14/2016 9:00 AM	6/16/2016 9:50 AM	Soil
1606593-013A	H21-SB01-11		6/14/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606593-013B	H21-SB01-11		6/14/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606593-013C	H21-SB01-11		6/14/2016 9:05 AM	6/16/2016 9:50 AM	Soil
1606593-014A	H21-SS02-01		6/14/2016 8:50 AM	6/16/2016 9:50 AM	Soil
1606593-014B	H21-SS02-01		6/14/2016 8:50 AM	6/16/2016 9:50 AM	Soil
1606593-014C	H21-SS02-01		6/14/2016 8:50 AM	6/16/2016 9:50 AM	Soil
1606593-015A	H21-SB02-10		6/14/2016 8:55 AM	6/16/2016 9:50 AM	Soil
1606593-015B	H21-SB02-10		6/14/2016 8:55 AM	6/16/2016 9:50 AM	Soil
1606593-015C	H21-SB02-10		6/14/2016 8:55 AM	6/16/2016 9:50 AM	Soil
1606593-016A	H21-SS03-01		6/14/2016 8:30 AM	6/16/2016 9:50 AM	Soil
1606593-016B	H21-SS03-01		6/14/2016 8:30 AM	6/16/2016 9:50 AM	Soil
1606593-016C	H21-SS03-01		6/14/2016 8:30 AM	6/16/2016 9:50 AM	Soil
1606593-017A	H21-SB03-06		6/14/2016 8:35 AM	6/16/2016 9:50 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606593-017B	H21-SB03-06		6/14/2016 8:35 AM	6/16/2016 9:50 AM	Soil
1606593-017C	H21-SB03-06		6/14/2016 8:35 AM	6/16/2016 9:50 AM	Soil
1606593-018A	WDS-SB04-01		6/14/2016 4:00 PM	6/16/2016 9:50 AM	Soil
1606593-018B	WDS-SB04-01		6/14/2016 4:00 PM	6/16/2016 9:50 AM	Soil
1606593-018C	WDS-SB04-01		6/14/2016 4:00 PM	6/16/2016 9:50 AM	Soil
1606593-019A	WDS-SB05-01		6/14/2016 4:05 PM	6/16/2016 9:50 AM	Soil
1606593-019B	WDS-SB05-01		6/14/2016 4:05 PM	6/16/2016 9:50 AM	Soil
1606593-019C	WDS-SB05-01		6/14/2016 4:05 PM	6/16/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical Report revised 8/11/2016: Compound 3,3´-Dichlorobenzidine was missing in the SVOC analysis. Also Benzoic Acid was missing in the QC Summary report for the LCS, MS and MSD.

Analytical report revision: 8/26/2016: Sample 1606593-016 was reported for multiple dilutions for SW-8270D SIM. However only two were needed (dilutions 1 and 10). Sample dilution 3 has been removed as well as the duplicate compounds.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A-TL
- Polychlorinated Biphenyls - 8082A
- Semi-Volatile Organic Compounds - 8270D
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM
- Semi-Volatile Organic Compounds - 8270D-SIM-STAR

Sample 1606593-001A has Pyrene and Fluoranthene in the PNA SIM Analysis being reported over-calibration. All PNAs are also being reported in the non-SIM 8270D analysis.

Analytical Comments for 8270D SIM, Sample 1606593-004A, Batch ID 40258 : Sample is being reported over calibration for compounds except Acenaphthylene and Benzo(k)fluoranthene. Sample results to reported in Non-SIM run at a 10 and 100x dilutions.

Analytical Comments for Test SW_8082S, Analytical Run No 87408, Batch ID 40377:
Sample 1606593-002B: Surrogate recovery for DCB (51.2%) exceeded control limits.

Analytical Comments for Test SW_8082S, Analytical Run No 87531, Batch ID 40483:
Sample 1606593-017B: Surrogate recoveries for TCMX (18.1%) and DCB (17.2%) exceeded control limits - similar recoveries on re-analysis.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87145, Batch ID R87145:
Sample ICV S8 070216: ICV results for Bis(2-chloroisopropyl) ether exceed the 20% criteria.
Sample CCV S8 070516: CCV results for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol ,Benzoic acid and 2-Nitroaniline exceed the 20% criteria.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87145, Batch ID R40226:
Sample 1606593-001A: Surrogate recoveries for 2,4,6-Tribromophenil, 2-Fluorobiohenyl and Phenol-d5 were outside the control limits. Initial analysis performed at a 1 dilution factor, however all surrogates failed during initial analysis.
Sample 1606593-006A: Surrogate recovery for 2-Fluorobiphenyl was outside the control limits.
Sample 1606593-007A: Surrogate recovery for 2,4,6-Tribromophenol exceeded QC limits
Sample 1606593-008A: Surrogate recovery for 2,4,6-Tribromophenol exceeded QC limits
Sample 1606593-006A MS/MSD: Several Spike recoveries were outside the control limits. Surrogate recovery for 2,4,6-Tribromophenol was outside the control limits.
Sample 1606593-006A MSD: RPD for 4-Nitrophenol was outside the control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87647, Batch ID R87647:
Sample ICV S8 070216: Bis(2-chloroisopropyl) ether exceeded 20%
Sample CCV S8 070516: 2,4-Dinitrophenol,2 -Nitroaniline, 4,6-Dinitro-2-methylphenol and Benzoic acid exceeded 20%.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87747, Batch ID R87747:
Sample ICV S8 070216: Bis(2-chloroisopropyl) ether exceed 20% limit.
Sample CCV S8 070816: 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitroaniline,2-Nitrophenol, 3-Nitroaniline, 4-Nitroaniline, 4-Nitrophenol and 4,6-Dinitro-2-methylphenol exceed 20%.
Sample 1606601-008A MS: Spike recovery for 4-Nitroaniline was outside the control limits.
Sample 1606601-008A MSD: Spike recoveries and RPDs were outside the control limits for several compounds. Surrogate recovery for Terphenyl-d14.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87828, Batch ID R87828:
Sample ICV S8 080216: 2-chloroisopropyl) ether and 4,6-Dinitro-2-methylphenol exceeded QC limits.
Sample CCV S8 080316: Benzoic acid, Pentachlorophenol and Bis(2-chloroisopropyl) ether exceeded QC limits

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87700, Batch ID 40258:
Sample 1606593-004A: Sample is being reported over calibration for compounds except Acenaphthylene and Benzo(k)fluoranthene. Sample results to reported in Non-SIM run at a 10 and 100x dilutions.
Sample 1606593-004A: Surrogate recovery for Terphenyl-d14 was outside the control limits.
Sample 1606593-010A: Surrogate recovery for Nitrobenzene was outside the control limits.
Sample 1606467-016D MS/MSD: Spike recoveries, surrogate recoveries and RPDs were outside the control limits for several compounds.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87701, Batch ID 40228:
Sample 1606593-001A: Pyrene and Fluoranthene reported over calibration range. Samples analyzed and report under the 8270D, non-SIM analysis.
Sample 1606593-002A: All surrogate recoveries were outside the control limits, diluted out of sample due to high dilution requirements.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87786, Batch ID R87786:
Sample CCV SIM S7 080116: Results for 1-Methylnaphthalene exceeded QC LIMIT.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87786, Batch ID 40258:
Sample 1606593-016A: Recovery for all surrogates exceeded control limits due to elevated concentrations of target and non-target analyte in the sample.
Sample 1606593-018A: Surrogate recovery for Terphenyl-d14 was outside the control limits.
Sample 1606593-019A: Recovery for all surrogates exceeded control limits due to elevated concentrations of target and non-target analyte in the sample.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87818, Batch ID 40258:
Sample 1606593-017A: Surrogate recovery for Terphenyl-d14 was outside the control limits.
Sample LCS-40258: Spike recovery for 1-Methylnaphthalene was outside the control limits. Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.
Samples 1606601-008A MS/MSD: Spike recoveries and RPDs were outside the control limits for several compounds.

Analytical Comments for Test SW_6010S, Analytical Run No 87541 Batch ID 40445:
Samples 1606652-015F MS/MSD: Spike recoveries for several analytes were outside the control limits. RPD for Calcium was outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 2:20:00 PM
Project:	Camp Hero		
Lab ID:	1606593-001	**Matrix:**	Soil
Client Sample ID:	WDS-SB01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0083	U	0.0038	0.0083	0.041	mg/Kg-dry	1	7/12/2016 11:53 PM
Aroclor 1221	0.0083	U	0.0037	0.0083	0.041	mg/Kg-dry	1	7/12/2016 11:53 PM
Aroclor 1232	0.0083	U	0.0056	0.0083	0.041	mg/Kg-dry	1	7/12/2016 11:53 PM
Aroclor 1242	0.0083	U	0.0046	0.0083	0.041	mg/Kg-dry	1	7/12/2016 11:53 PM
Aroclor 1248	0.0083	U	0.0044	0.0083	0.041	mg/Kg-dry	1	7/12/2016 11:53 PM
Aroclor 1254	0.0083	U	0.0053	0.0083	0.041	mg/Kg-dry	1	7/12/2016 11:53 PM
Aroclor 1260	0.0083	U	0.0037	0.0083	0.041	mg/Kg-dry	1	7/12/2016 11:53 PM
Aroclor 1262	0.0083	U	0.0037	0.0083	0.041	mg/Kg-dry	1	7/12/2016 11:53 PM
Aroclor 1268	0.0083	U	0.0030	0.0083	0.041	mg/Kg-dry	1	7/12/2016 11:53 PM
Surr: Tetrachloro-m-xylene	68.2			44-130		%Rec	1	7/12/2016 11:53 PM
Surr: Decachlorobiphenyl	74.7			60-125		%Rec	1	7/12/2016 11:53 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		59	160	390	mg/Kg-dry	100	7/21/2016 4:07 PM
Antimony	4.5		0.29	0.39	0.78	mg/Kg-dry	1	7/21/2016 3:03 PM
Arsenic	2.7		0.57	0.78	1.6	mg/Kg-dry	1	7/21/2016 3:03 PM
Barium	47		0.23	3.9	7.8	mg/Kg-dry	1	7/21/2016 3:03 PM
Beryllium	0.14	J	0.0099	0.039	0.20	mg/Kg-dry	1	7/21/2016 3:03 PM
Cadmium	0.096	J	0.026	0.039	0.20	mg/Kg-dry	1	7/21/2016 3:03 PM
Calcium	1,100		2.3	7.8	39	mg/Kg-dry	1	7/21/2016 3:03 PM
Chromium	17		0.064	0.31	0.39	mg/Kg-dry	1	7/25/2016 3:45 PM
Cobalt	4.6		0.070	0.20	0.78	mg/Kg-dry	1	7/21/2016 3:03 PM
Copper	39		0.33	0.78	3.9	mg/Kg-dry	1	7/21/2016 3:03 PM
Iron	14,000		24	39	120	mg/Kg-dry	10	7/21/2016 3:55 PM
Lead	16		0.49	0.78	3.9	mg/Kg-dry	1	7/21/2016 3:03 PM
Magnesium	3,100		27	39	390	mg/Kg-dry	10	7/21/2016 3:55 PM
Manganese	260		1.4	2.0	7.8	mg/Kg-dry	10	7/21/2016 3:55 PM
Nickel	10		0.22	0.78	3.9	mg/Kg-dry	1	7/21/2016 3:03 PM
Potassium	1,800		1.8	7.8	16	mg/Kg-dry	1	7/21/2016 3:03 PM
Selenium	1.2	U	0.91	1.2	1.6	mg/Kg-dry	1	7/21/2016 3:03 PM
Silver	0.20	U	0.064	0.20	0.78	mg/Kg-dry	1	7/21/2016 3:03 PM
Sodium	160		1.6	3.9	39	mg/Kg-dry	1	7/21/2016 3:03 PM
Vanadium	24		0.099	0.78	2.0	mg/Kg-dry	1	7/21/2016 3:03 PM
Zinc	37		0.30	0.39	3.9	mg/Kg-dry	1	7/21/2016 3:03 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	JG	0.040	0.042	0.17	mg/Kg-dry	10	7/25/2016 7:22 PM
Semi-Volatile Organic Compounds			**Method: 8270D**		**SW3546**			**Analyst: STM**
1,2,4-Trichlorobenzene	0.31	U	0.17	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
1,2-Dichlorobenzene	0.31	U	0.13	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
1,3-Dichlorobenzene	0.31	U	0.13	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
1,4-Dichlorobenzene	0.31	U	0.099	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
1-Methylnaphthalene	0.093	U	0.022	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606593-001 **Matrix:** Soil
Client Sample ID: WDS-SB01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.62	U	0.31	0.62	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
2,4,6-Trichlorophenol	0.62	U	0.34	0.62	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
2,4-Dichlorophenol	1.5	U	0.53	1.5	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
2,4-Dimethyl phenol	1.5	U	0.59	1.5	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
2,4-Dinitrophenol	3.1	UY	1.8	3.1	15	mg/Kg-dry	3	7/5/2016 6:11 PM
2,4-Dinitrotoluene	0.31	U	0.27	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
2,6-Dinitrotoluene	0.31	U	0.29	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
2-Chloronaphthalene	0.31	U	0.21	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
2-Chlorophenol	1.5	U	0.64	1.5	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
2-Methylnaphthalene	0.093	U	0.015	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
2-Methylphenol (o-Cresol)	1.5	U	0.66	1.5	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
2-Nitroaniline	0.31	UY	0.15	0.31	5.9	mg/Kg-dry	3	7/5/2016 6:11 PM
2-Nitrophenol	1.5	U	0.76	1.5	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
3,3´-Dichlorobenzidine	12	U	7.9	12	19	mg/Kg-dry	3	7/5/2016 6:11 PM
3-Nitroaniline	0.31	U	0.22	0.31	5.9	mg/Kg-dry	3	7/5/2016 6:11 PM
3/4-Methylphenol [m/p-Cresol]	1.5	U	1.1	1.5	5.9	mg/Kg-dry	3	7/5/2016 6:11 PM
4,6-Dinitro-2-methylphenol	1.5	UY	0.89	1.5	5.9	mg/Kg-dry	3	7/5/2016 6:11 PM
4-Bromophenyl phenyl ether	1.5	U	0.79	1.5	3.7	mg/Kg-dry	3	7/5/2016 6:11 PM
4-Chloro-3-methylphenol	0.62	U	0.32	0.62	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
4-Chloroaniline [p-Chloroaniline]	1.5	U	0.47	1.5	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
4-Chlorophenyl phenyl ether	0.31	U	0.19	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
4-Nitroaniline	1.5	U	0.44	1.5	5.9	mg/Kg-dry	3	7/5/2016 6:11 PM
4-Nitrophenol	6.2	U	4.4	6.2	15	mg/Kg-dry	3	7/5/2016 6:11 PM
Acenaphthene	0.037	J	0.022	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Acenaphthylene	0.037	J	0.024	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Anthracene	0.10	J	0.015	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Benzo(a)anthracene	0.28		0.025	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Benzo(a)pyrene	0.30		0.027	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Benzo(b)fluoranthene	0.40		0.029	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Benzo(g,h,i)perylene	0.25		0.035	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Benzo(k)fluoranthene	0.19		0.035	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Benzoic acid	6.2	UY	2.5	6.2	19	mg/Kg-dry	3	7/5/2016 6:11 PM
Benzyl alcohol	0.31	U	0.15	0.31	12	mg/Kg-dry	3	7/5/2016 6:11 PM
Bis(2-chloroethoxy) methane	0.31	U	0.13	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Bis(2-chloroethyl) ether	0.62	U	0.33	0.62	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Bis(2-chloroisopropyl)ether	0.31	UZ	0.14	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Bis(2-ethylhexyl) phthalate	0.62	U	0.55	0.62	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Butyl benzyl phthalate	0.62	U	0.36	0.62	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Carbazole	0.31	U	0.21	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Chrysene	0.33		0.021	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Di-n-butyl phthalate	0.62	U	0.33	0.62	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Di-n-octyl phthalate	0.31	U	0.21	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Dibenzo(a,h)anthracene	0.093	J	0.024	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Dibenzofuran	0.31	U	0.16	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Diethyl phthalate	0.31	U	0.23	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Dimethyl phthalate	0.31	U	0.21	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606593-001 **Matrix:** Soil
Client Sample ID: WDS-SB01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Fluoranthene	0.62		0.015	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Fluorene	0.031	J	0.024	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Hexachlorobenzene	0.31	U	0.17	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Hexachlorobutadiene	0.31	U	0.28	0.31	0.93	mg/Kg-dry	3	7/5/2016 6:11 PM
Hexachloroethane	0.31	U	0.14	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Indeno(1,2,3-cd)pyrene	0.23		0.025	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Isophorone	0.31	U	0.13	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
N-Nitroso-di-n-propylamine	0.31	U	0.17	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
N-Nitrosodimethylamine	0.31	U	0.15	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
N-Nitrosodiphenylamine	0.31	U	0.15	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Naphthalene	0.093	U	0.027	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Nitrobenzene	0.31	U	0.19	0.31	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Pentachlorophenol	1.5	U	1.2	1.5	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Phenanthrene	0.34		0.017	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Phenol	1.5	U	0.66	1.5	3.0	mg/Kg-dry	3	7/5/2016 6:11 PM
Pyrene	0.56		0.015	0.093	0.12	mg/Kg-dry	3	7/5/2016 6:11 PM
Surr: 2,4,6-Tribromophenol	0	QU		39-132		%Rec	3	7/5/2016 6:11 PM
Surr: 2-Fluorobiphenyl	72.6	J		44-115		%Rec	3	7/5/2016 6:11 PM
Surr: 2-Fluorophenol	0	QU		35-115		%Rec	3	7/5/2016 6:11 PM
Surr: Nitrobenzene-d5	73.2	J		37-122		%Rec	3	7/5/2016 6:11 PM
Surr: Phenol-d5	0	QU		33-122		%Rec	3	7/5/2016 6:11 PM
Surr: Terphenyl-d14	84.6	J		54-127		%Rec	3	7/5/2016 6:11 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0084		0.0025	0.0025	0.0025	mg/Kg-dry	3	7/21/2016 8:51 PM
2-Methylnaphthalene	0.0066		0.0025	0.0025	0.0025	mg/Kg-dry	3	7/21/2016 8:51 PM
Acenaphthene	0.037		0.0025	0.0025	0.0025	mg/Kg-dry	3	7/21/2016 8:51 PM
Acenaphthylene	0.018		0.0025	0.0025	0.0025	mg/Kg-dry	3	7/21/2016 8:51 PM
Anthracene	0.095		0.0025	0.0025	0.0025	mg/Kg-dry	3	7/21/2016 8:51 PM
Benzo(a)anthracene	0.27		0.0083	0.0083	0.0083	mg/Kg-dry	10	7/28/2016 3:46 PM
Benzo(a)pyrene	0.26		0.0083	0.0083	0.0083	mg/Kg-dry	10	7/28/2016 3:46 PM
Benzo(b)fluoranthene	0.39		0.0083	0.0083	0.0083	mg/Kg-dry	10	7/28/2016 3:46 PM
Benzo(g,h,i)perylene	0.018		0.0025	0.0025	0.0025	mg/Kg-dry	3	7/21/2016 8:51 PM
Benzo(k)fluoranthene	0.14		0.0083	0.0083	0.0083	mg/Kg-dry	10	7/28/2016 3:46 PM
Chrysene	0.24		0.0083	0.0083	0.0083	mg/Kg-dry	10	7/28/2016 3:46 PM
Dibenzo(a,h)anthracene	0.0087		0.0025	0.0025	0.0025	mg/Kg-dry	3	7/21/2016 8:51 PM
Fluoranthene	0.53	J	0.0083	0.0083	0.0083	mg/Kg-dry	10	7/28/2016 3:46 PM
Fluorene	0.038		0.0025	0.0025	0.0025	mg/Kg-dry	3	7/21/2016 8:51 PM
Indeno(1,2,3-cd)pyrene	0.10		0.0083	0.0083	0.0083	mg/Kg-dry	10	7/28/2016 3:46 PM
Naphthalene	0.013		0.0025	0.0025	0.0025	mg/Kg-dry	3	7/21/2016 8:51 PM
Phenanthrene	0.27		0.0083	0.0083	0.0083	mg/Kg-dry	10	7/28/2016 3:46 PM
Pyrene	0.45	J	0.0083	0.0083	0.0083	mg/Kg-dry	10	7/28/2016 3:46 PM
Surr: 2-Fluorobiphenyl	83.3			46-115		%Rec	3	7/21/2016 8:51 PM
Surr: Nitrobenzene-d5	90.5			44-125		%Rec	3	7/21/2016 8:51 PM
Surr: Terphenyl-d14	108			58-133		%Rec	3	7/21/2016 8:51 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 2:20:00 PM
Project:	Camp Hero		
Lab ID:	1606593-001	**Matrix:**	Soil
Client Sample ID:	WDS-SB01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	20		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 2:35:00 PM
Project: Camp Hero
Lab ID: 1606593-002 **Matrix:** Soil
Client Sample ID: WDS-SB02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/13/2016 12:18 AM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/13/2016 12:18 AM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/13/2016 12:18 AM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	7/13/2016 12:18 AM
Aroclor 1248	0.0073	U	0.0039	0.0073	0.036	mg/Kg-dry	1	7/13/2016 12:18 AM
Aroclor 1254	0.0073	U	0.0047	0.0073	0.036	mg/Kg-dry	1	7/13/2016 12:18 AM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/13/2016 12:18 AM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/13/2016 12:18 AM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/13/2016 12:18 AM
Surr: Tetrachloro-m-xylene	46.8			44-130		%Rec	1	7/13/2016 12:18 AM
Surr: Decachlorobiphenyl	51.2	Q		60-125		%Rec	1	7/13/2016 12:18 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,800		52	140	350	mg/Kg-dry	100	7/21/2016 4:08 PM
Antimony	1.9		0.26	0.35	0.69	mg/Kg-dry	1	7/21/2016 3:04 PM
Arsenic	1.2	J	0.50	0.69	1.4	mg/Kg-dry	1	7/21/2016 3:04 PM
Barium	24		0.21	3.5	6.9	mg/Kg-dry	1	7/21/2016 3:04 PM
Beryllium	0.033	J	0.0088	0.035	0.17	mg/Kg-dry	1	7/21/2016 3:04 PM
Cadmium	0.082	J	0.023	0.035	0.17	mg/Kg-dry	1	7/21/2016 3:04 PM
Calcium	1,000		2.0	6.9	35	mg/Kg-dry	1	7/21/2016 3:04 PM
Chromium	7.4		0.057	0.28	0.35	mg/Kg-dry	1	7/25/2016 3:46 PM
Cobalt	2.1		0.062	0.17	0.69	mg/Kg-dry	1	7/21/2016 3:04 PM
Copper	22		0.29	0.69	3.5	mg/Kg-dry	1	7/21/2016 3:04 PM
Iron	8,300		220	350	1,000	mg/Kg-dry	100	7/21/2016 4:08 PM
Lead	12		0.43	0.69	3.5	mg/Kg-dry	1	7/21/2016 3:04 PM
Magnesium	1,100		2.4	3.5	35	mg/Kg-dry	1	7/21/2016 3:04 PM
Manganese	130		0.13	0.17	0.69	mg/Kg-dry	1	7/21/2016 3:04 PM
Nickel	4.7		0.20	0.69	3.5	mg/Kg-dry	1	7/21/2016 3:04 PM
Potassium	640		1.6	6.9	14	mg/Kg-dry	1	7/21/2016 3:04 PM
Selenium	1.0	U	0.81	1.0	1.4	mg/Kg-dry	1	7/21/2016 3:04 PM
Silver	0.17	U	0.057	0.17	0.69	mg/Kg-dry	1	7/21/2016 3:04 PM
Sodium	68		1.4	3.5	35	mg/Kg-dry	1	7/21/2016 3:04 PM
Vanadium	13		0.088	0.69	1.7	mg/Kg-dry	1	7/21/2016 3:04 PM
Zinc	23		0.27	0.35	3.5	mg/Kg-dry	1	7/21/2016 3:04 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.068	JG	0.034	0.035	0.14	mg/Kg-dry	10	7/25/2016 7:23 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: MB**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 2:35:00 PM
Project: Camp Hero
Lab ID: 1606593-002 **Matrix:** Soil
Client Sample ID: WDS-SB02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
2,4-Dichlorophenol	0.090	U	0.031	0.090	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
2,4-Dimethyl phenol	0.090	U	0.035	0.090	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.90	mg/Kg-dry	1	7/5/2016 6:36 PM
2,4-Dinitrotoluene	0.028	J	0.016	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
2-Chlorophenol	0.090	U	0.038	0.090	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
2-Methylphenol (o-Cresol)	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
2-Nitroaniline	0.018	UY	0.0088	0.018	0.35	mg/Kg-dry	1	7/5/2016 6:36 PM
2-Nitrophenol	0.090	U	0.045	0.090	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
3,3´-Dichlorobenzidine	0.72	U	0.46	0.72	1.1	mg/Kg-dry	1	7/5/2016 6:36 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	7/5/2016 6:36 PM
3/4-Methylphenol [m/p-Cresol]	0.090	U	0.064	0.090	0.35	mg/Kg-dry	1	7/5/2016 6:36 PM
4,6-Dinitro-2-methylphenol	0.090	UY	0.052	0.090	0.35	mg/Kg-dry	1	7/5/2016 6:36 PM
4-Bromophenyl phenyl ether	0.090	U	0.046	0.090	0.22	mg/Kg-dry	1	7/5/2016 6:36 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
4-Chloroaniline [p-Chloroaniline]	0.090	U	0.027	0.090	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
4-Nitroaniline	0.090	U	0.026	0.090	0.35	mg/Kg-dry	1	7/5/2016 6:36 PM
4-Nitrophenol	0.36	U	0.26	0.36	0.90	mg/Kg-dry	1	7/5/2016 6:36 PM
Benzoic acid	0.36	UY Q	0.15	0.36	1.1	mg/Kg-dry	1	7/5/2016 6:36 PM
Benzyl alcohol	0.018	U	0.0087	0.018	0.72	mg/Kg-dry	1	7/5/2016 6:36 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0083	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Carbazole	0.41		0.012	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Di-n-butyl phthalate	0.027	J	0.019	0.036	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Dibenzofuran	0.19		0.0092	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.054	mg/Kg-dry	1	7/5/2016 6:36 PM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
N-Nitrosodimethylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
N-Nitrosodiphenylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Pentachlorophenol	0.090	U	0.068	0.090	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Phenol	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/5/2016 6:36 PM
Surr: 2,4,6-Tribromophenol	72.3			39-132		%Rec	1	7/5/2016 6:36 PM
Surr: 2-Fluorobiphenyl	74.4			44-115		%Rec	1	7/5/2016 6:36 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 2:35:00 PM
Project:	Camp Hero		
Lab ID:	1606593-002	**Matrix:**	Soil
Client Sample ID:	WDS-SB02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	65.8			35-115		%Rec	1	7/5/2016 6:36 PM
Surr: Nitrobenzene-d5	78.8			37-122		%Rec	1	7/5/2016 6:36 PM
Surr: Phenol-d5	71.0			33-122		%Rec	1	7/5/2016 6:36 PM
Surr: Terphenyl-d14	86.3			54-127		%Rec	1	7/5/2016 6:36 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.085		0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
2-Methylnaphthalene	0.063		0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
Acenaphthene	0.47		0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
Acenaphthylene	0.036	U	0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
Anthracene	1.2		0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
Benzo(a)anthracene	2.7		0.36	0.36	0.36	mg/Kg-dry	500	7/28/2016 5:13 PM
Benzo(a)pyrene	2.2		0.36	0.36	0.36	mg/Kg-dry	500	7/28/2016 5:13 PM
Benzo(b)fluoranthene	3.2		0.36	0.36	0.36	mg/Kg-dry	500	7/28/2016 5:13 PM
Benzo(g,h,i)perylene	0.75		0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
Benzo(k)fluoranthene	0.96		0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
Chrysene	2.2		0.36	0.36	0.36	mg/Kg-dry	500	7/28/2016 5:13 PM
Dibenzo(a,h)anthracene	0.19		0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
Fluoranthene	5.9		0.36	0.36	0.36	mg/Kg-dry	500	7/28/2016 5:13 PM
Fluorene	0.55		0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
Indeno(1,2,3-cd)pyrene	1.0		0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
Naphthalene	0.096		0.036	0.036	0.036	mg/Kg-dry	50	7/28/2016 4:41 PM
Phenanthrene	3.9		0.36	0.36	0.36	mg/Kg-dry	500	7/28/2016 5:13 PM
Pyrene	4.5		0.36	0.36	0.36	mg/Kg-dry	500	7/28/2016 5:13 PM
Surr: 2-Fluorobiphenyl	0	QU		46-115		%Rec	50	7/28/2016 4:41 PM
Surr: Nitrobenzene-d5	0	QU		44-125		%Rec	50	7/28/2016 4:41 PM
Surr: Terphenyl-d14	0	QU		58-133		%Rec	50	7/28/2016 4:41 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.3		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 2:40:00 PM
Project:	Camp Hero		
Lab ID:	1606593-003	**Matrix:**	Soil
Client Sample ID:	WDS-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	7/13/2016 1:31 AM
Aroclor 1221	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	7/13/2016 1:31 AM
Aroclor 1232	0.0077	U	0.0052	0.0077	0.038	mg/Kg-dry	1	7/13/2016 1:31 AM
Aroclor 1242	0.0077	U	0.0043	0.0077	0.038	mg/Kg-dry	1	7/13/2016 1:31 AM
Aroclor 1248	0.0077	U	0.0041	0.0077	0.038	mg/Kg-dry	1	7/13/2016 1:31 AM
Aroclor 1254	0.0077	U	0.0049	0.0077	0.038	mg/Kg-dry	1	7/13/2016 1:31 AM
Aroclor 1260	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	7/13/2016 1:31 AM
Aroclor 1262	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	7/13/2016 1:31 AM
Aroclor 1268	0.0077	U	0.0028	0.0077	0.038	mg/Kg-dry	1	7/13/2016 1:31 AM
Surr: Tetrachloro-m-xylene	93.2			44-130		%Rec	1	7/13/2016 1:31 AM
Surr: Decachlorobiphenyl	104			60-125		%Rec	1	7/13/2016 1:31 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	7,100		58	150	390	mg/Kg-dry	100	7/21/2016 5:28 PM
Antimony	1.8		0.29	0.39	0.77	mg/Kg-dry	1	7/21/2016 3:05 PM
Arsenic	1.4	J	0.56	0.77	1.5	mg/Kg-dry	1	7/21/2016 3:05 PM
Barium	19		0.23	3.9	7.7	mg/Kg-dry	1	7/21/2016 3:05 PM
Beryllium	0.065	J	0.0098	0.039	0.19	mg/Kg-dry	1	7/21/2016 3:05 PM
Cadmium	0.061	J	0.026	0.039	0.19	mg/Kg-dry	1	7/21/2016 3:05 PM
Calcium	1,100		2.3	7.7	39	mg/Kg-dry	1	7/21/2016 3:05 PM
Chromium	11		0.064	0.31	0.39	mg/Kg-dry	1	7/25/2016 3:47 PM
Cobalt	2.0		0.070	0.19	0.77	mg/Kg-dry	1	7/21/2016 3:05 PM
Copper	20		0.32	0.77	3.9	mg/Kg-dry	1	7/21/2016 3:05 PM
Iron	7,200		240	390	1,200	mg/Kg-dry	100	7/21/2016 5:28 PM
Lead	5.6		0.48	0.77	3.9	mg/Kg-dry	1	7/21/2016 3:05 PM
Magnesium	1,100		2.7	3.9	39	mg/Kg-dry	1	7/21/2016 3:05 PM
Manganese	90		0.14	0.19	0.77	mg/Kg-dry	1	7/21/2016 3:05 PM
Nickel	4.9		0.22	0.77	3.9	mg/Kg-dry	1	7/21/2016 3:05 PM
Potassium	440		1.8	7.7	15	mg/Kg-dry	1	7/21/2016 3:05 PM
Selenium	1.2	U	0.90	1.2	1.5	mg/Kg-dry	1	7/21/2016 3:05 PM
Silver	0.19	U	0.063	0.19	0.77	mg/Kg-dry	1	7/21/2016 3:05 PM
Sodium	110		1.6	3.9	39	mg/Kg-dry	1	7/21/2016 3:05 PM
Vanadium	15		0.098	0.77	1.9	mg/Kg-dry	1	7/21/2016 3:05 PM
Zinc	14		0.30	0.39	3.9	mg/Kg-dry	1	7/21/2016 3:05 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.067	JG	0.037	0.038	0.15	mg/Kg-dry	10	7/25/2016 7:23 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: MB**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
1,2-Dichlorobenzene	0.019	U	0.0082	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
1,3-Dichlorobenzene	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
1,4-Dichlorobenzene	0.019	U	0.0061	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 2:40:00 PM
Project: Camp Hero
Lab ID: 1606593-003 **Matrix:** Soil
Client Sample ID: WDS-SB03-06

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
2,4-Dichlorophenol	0.095	U	0.033	0.095	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
2,4-Dimethyl phenol	0.095	U	0.037	0.095	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.95	mg/Kg-dry	1	7/5/2016 7:01 PM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
2-Chlorophenol	0.095	U	0.040	0.095	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
2-Methylphenol (o-Cresol)	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
2-Nitroaniline	0.019	UY	0.0093	0.019	0.37	mg/Kg-dry	1	7/5/2016 7:01 PM
2-Nitrophenol	0.095	U	0.047	0.095	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
3,3´-Dichlorobenzidine	0.76	U	0.49	0.76	1.1	mg/Kg-dry	1	7/5/2016 7:01 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	7/5/2016 7:01 PM
3/4-Methylphenol [m/p-Cresol]	0.095	U	0.068	0.095	0.37	mg/Kg-dry	1	7/5/2016 7:01 PM
4,6-Dinitro-2-methylphenol	0.095	UY	0.055	0.095	0.37	mg/Kg-dry	1	7/5/2016 7:01 PM
4-Bromophenyl phenyl ether	0.095	U	0.049	0.095	0.23	mg/Kg-dry	1	7/5/2016 7:01 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
4-Chloroaniline [p-Chloroaniline]	0.095	U	0.029	0.095	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
4-Nitroaniline	0.095	U	0.027	0.095	0.37	mg/Kg-dry	1	7/5/2016 7:01 PM
4-Nitrophenol	0.38	U	0.27	0.38	0.95	mg/Kg-dry	1	7/5/2016 7:01 PM
Benzoic acid	0.38	UY Q	0.15	0.38	1.1	mg/Kg-dry	1	7/5/2016 7:01 PM
Benzyl alcohol	0.019	U	0.0092	0.019	0.76	mg/Kg-dry	1	7/5/2016 7:01 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0087	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Bis(2-ethylhexyl) phthalate	0.048	J	0.034	0.038	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Butyl benzyl phthalate	0.089	J	0.023	0.038	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Carbazole	0.022	J	0.013	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Di-n-butyl phthalate	0.035	J	0.021	0.038	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Dibenzofuran	0.019	U	0.0097	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Dimethyl phthalate	0.094	J	0.013	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.057	mg/Kg-dry	1	7/5/2016 7:01 PM
Hexachloroethane	0.019	U	0.0088	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Isophorone	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
N-Nitrosodimethylamine	0.019	U	0.0093	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
N-Nitrosodiphenylamine	0.019	U	0.0092	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Pentachlorophenol	0.095	U	0.072	0.095	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Phenol	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	7/5/2016 7:01 PM
Surr: 2,4,6-Tribromophenol	76.4			39-132		%Rec	1	7/5/2016 7:01 PM
Surr: 2-Fluorobiphenyl	68.5			44-115		%Rec	1	7/5/2016 7:01 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 2:40:00 PM
Project:	Camp Hero		
Lab ID:	1606593-003	**Matrix:**	Soil
Client Sample ID:	WDS-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	62.6			35-115		%Rec	1	7/5/2016 7:01 PM
Surr: Nitrobenzene-d5	70.3			37-122		%Rec	1	7/5/2016 7:01 PM
Surr: Phenol-d5	66.8			33-122		%Rec	1	7/5/2016 7:01 PM
Surr: Terphenyl-d14	70.4			54-127		%Rec	1	7/5/2016 7:01 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0078	UQ	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
2-Methylnaphthalene	0.0088	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Acenaphthene	0.015	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Acenaphthylene	0.011	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Anthracene	0.041	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Benzo(a)anthracene	0.21	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Benzo(a)pyrene	0.17		0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Benzo(b)fluoranthene	0.25	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Benzo(g,h,i)perylene	0.083		0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Benzo(k)fluoranthene	0.12		0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Chrysene	0.17	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Dibenzo(a,h)anthracene	0.0078	U	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Fluoranthene	0.24		0.016	0.016	0.016	mg/Kg-dry	20	8/4/2016 3:11 PM
Fluorene	0.015	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Indeno(1,2,3-cd)pyrene	0.083	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Naphthalene	0.010		0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Phenanthrene	0.20	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Pyrene	0.34	Q	0.0078	0.0078	0.0078	mg/Kg-dry	10	7/22/2016 3:28 PM
Surr: 2-Fluorobiphenyl	89.7			46-115		%Rec	10	7/22/2016 3:28 PM
Surr: Nitrobenzene-d5	85.0			44-125		%Rec	10	7/22/2016 3:28 PM
Surr: Terphenyl-d14	98.4			58-133		%Rec	10	7/22/2016 3:28 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 9:45:00 AM
Project: Camp Hero
Lab ID: 1606593-004 **Matrix:** Soil
Client Sample ID: WDS-SB06-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/13/2016 1:55 AM
Aroclor 1221	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/13/2016 1:55 AM
Aroclor 1232	0.0075	U	0.0051	0.0075	0.037	mg/Kg-dry	1	7/13/2016 1:55 AM
Aroclor 1242	0.0075	U	0.0042	0.0075	0.037	mg/Kg-dry	1	7/13/2016 1:55 AM
Aroclor 1248	0.0075	U	0.0040	0.0075	0.037	mg/Kg-dry	1	7/13/2016 1:55 AM
Aroclor 1254	0.0075	U	0.0048	0.0075	0.037	mg/Kg-dry	1	7/13/2016 1:55 AM
Aroclor 1260	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/13/2016 1:55 AM
Aroclor 1262	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/13/2016 1:55 AM
Aroclor 1268	0.0075	U	0.0028	0.0075	0.037	mg/Kg-dry	1	7/13/2016 1:55 AM
Surr: Tetrachloro-m-xylene	57.4			44-130		%Rec	1	7/13/2016 1:55 AM
Surr: Decachlorobiphenyl	63.2			60-125		%Rec	1	7/13/2016 1:55 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	10,000		55	150	370	mg/Kg-dry	100	7/21/2016 5:29 PM
Antimony	2.3		0.28	0.37	0.73	mg/Kg-dry	1	7/21/2016 3:07 PM
Arsenic	1.6		0.53	0.73	1.5	mg/Kg-dry	1	7/21/2016 3:07 PM
Barium	24		0.22	3.7	7.3	mg/Kg-dry	1	7/21/2016 3:07 PM
Beryllium	0.063	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/21/2016 3:07 PM
Cadmium	0.037	U	0.024	0.037	0.18	mg/Kg-dry	1	7/21/2016 3:07 PM
Calcium	740		2.2	7.3	37	mg/Kg-dry	1	7/21/2016 3:07 PM
Chromium	13		0.060	0.29	0.37	mg/Kg-dry	1	7/25/2016 3:49 PM
Cobalt	2.5		0.066	0.18	0.73	mg/Kg-dry	1	7/21/2016 3:07 PM
Copper	27		0.31	0.73	3.7	mg/Kg-dry	1	7/21/2016 3:07 PM
Iron	11,000		230	370	1,100	mg/Kg-dry	100	7/21/2016 5:29 PM
Lead	3.8		0.46	0.73	3.7	mg/Kg-dry	1	7/21/2016 3:07 PM
Magnesium	1,600		2.6	3.7	37	mg/Kg-dry	1	7/21/2016 3:07 PM
Manganese	100		0.14	0.18	0.73	mg/Kg-dry	1	7/21/2016 3:07 PM
Nickel	6.7		0.21	0.73	3.7	mg/Kg-dry	1	7/21/2016 3:07 PM
Potassium	680		1.7	7.3	15	mg/Kg-dry	1	7/21/2016 3:07 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/21/2016 3:07 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/21/2016 3:07 PM
Sodium	89		1.5	3.7	37	mg/Kg-dry	1	7/21/2016 3:07 PM
Vanadium	22		0.093	0.73	1.8	mg/Kg-dry	1	7/21/2016 3:07 PM
Zinc	14		0.28	0.37	3.7	mg/Kg-dry	1	7/21/2016 3:07 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.18		0.035	0.036	0.14	mg/Kg-dry	10	7/26/2016 4:57 PM
Semi-Volatile Organic Compounds			**Method: 8270D**		**SW3546**			**Analyst: STM**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
1,2-Dichlorobenzene	0.018	U	0.0080	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
1,4-Dichlorobenzene	0.018	U	0.0059	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
1-Methylnaphthalene	1.4		0.0013	0.0055	0.0074	mg/Kg-dry	1	7/5/2016 7:25 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 9:45:00 AM
Project: Camp Hero
Lab ID: 1606593-004 **Matrix:** Soil
Client Sample ID: WDS-SB06-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
2,4,6-Trichlorophenol	0.037	U	0.021	0.037	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
2,4-Dichlorophenol	0.092	U	0.032	0.092	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
2,4-Dimethyl phenol	0.092	U	0.035	0.092	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.92	mg/Kg-dry	1	7/5/2016 7:25 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
2-Chlorophenol	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
2-Methylnaphthalene	1.7		0.00088	0.0055	0.0074	mg/Kg-dry	1	7/5/2016 7:25 PM
2-Methylphenol (o-Cresol)	0.092	U	0.040	0.092	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
2-Nitroaniline	0.018	UY	0.0090	0.018	0.35	mg/Kg-dry	1	7/5/2016 7:25 PM
2-Nitrophenol	0.092	U	0.046	0.092	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
3,3´-Dichlorobenzidine	0.74	U	0.47	0.74	1.1	mg/Kg-dry	1	7/5/2016 7:25 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	7/5/2016 7:25 PM
3/4-Methylphenol [m/p-Cresol]	0.092	U	0.066	0.092	0.35	mg/Kg-dry	1	7/5/2016 7:25 PM
4,6-Dinitro-2-methylphenol	0.092	UY	0.053	0.092	0.35	mg/Kg-dry	1	7/5/2016 7:25 PM
4-Bromophenyl phenyl ether	0.092	U	0.047	0.092	0.22	mg/Kg-dry	1	7/5/2016 7:25 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
4-Chloroaniline [p-Chloroaniline]	0.71		0.028	0.092	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
4-Nitroaniline	0.092	U	0.027	0.092	0.35	mg/Kg-dry	1	7/5/2016 7:25 PM
4-Nitrophenol	0.37	U	0.26	0.37	0.92	mg/Kg-dry	1	7/5/2016 7:25 PM
Acenaphthene	12		0.013	0.055	0.074	mg/Kg-dry	10	8/3/2016 5:16 PM
Acenaphthylene	0.60		0.0014	0.0055	0.0074	mg/Kg-dry	1	7/5/2016 7:25 PM
Anthracene	110		0.088	0.55	0.74	mg/Kg-dry	100	8/3/2016 5:42 PM
Benzo(a)anthracene	49		0.15	0.55	0.74	mg/Kg-dry	100	8/3/2016 5:42 PM
Benzo(a)pyrene	38		0.16	0.55	0.74	mg/Kg-dry	100	8/3/2016 5:42 PM
Benzo(b)fluoranthene	42		0.17	0.55	0.74	mg/Kg-dry	100	8/3/2016 5:42 PM
Benzo(g,h,i)perylene	21		0.21	0.55	0.74	mg/Kg-dry	100	8/3/2016 5:42 PM
Benzo(k)fluoranthene	7.7		0.021	0.055	0.074	mg/Kg-dry	10	8/3/2016 5:16 PM
Benzoic acid	0.37	UY	0.15	0.37	1.1	mg/Kg-dry	1	7/5/2016 7:25 PM
Benzyl alcohol	0.018	U	0.0089	0.018	0.73	mg/Kg-dry	1	7/5/2016 7:25 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0077	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0084	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.033	0.037	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Carbazole	9.7		0.13	0.18	1.8	mg/Kg-dry	10	8/3/2016 5:16 PM
Chrysene	51		0.12	0.55	0.74	mg/Kg-dry	100	8/3/2016 5:42 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Di-n-octyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Dibenzo(a,h)anthracene	8.1		0.014	0.055	0.074	mg/Kg-dry	10	8/3/2016 5:16 PM
Dibenzofuran	11		0.094	0.18	1.8	mg/Kg-dry	10	8/3/2016 5:16 PM
Diethyl phthalate	0.018	U	0.014	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 9:45:00 AM
Project: Camp Hero
Lab ID: 1606593-004 **Matrix:** Soil
Client Sample ID: WDS-SB06-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Fluoranthene	110		0.088	0.55	0.74	mg/Kg-dry	100	8/3/2016 5:42 PM
Fluorene	0.0055	U	0.0014	0.0055	0.0074	mg/Kg-dry	1	7/5/2016 7:25 PM
Hexachlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	7/5/2016 7:25 PM
Hexachloroethane	0.018	U	0.0085	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Indeno(1,2,3-cd)pyrene	18		0.015	0.055	0.074	mg/Kg-dry	10	8/3/2016 5:16 PM
Isophorone	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
N-Nitrosodimethylamine	0.018	U	0.0090	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
N-Nitrosodiphenylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Naphthalene	1.7		0.0016	0.0055	0.0074	mg/Kg-dry	1	7/5/2016 7:25 PM
Nitrobenzene	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Pentachlorophenol	0.092	U	0.069	0.092	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Phenanthrene	110		0.10	0.55	0.74	mg/Kg-dry	100	8/3/2016 5:42 PM
Phenol	0.042	J	0.040	0.092	0.18	mg/Kg-dry	1	7/5/2016 7:25 PM
Pyrene	85		0.091	0.55	0.74	mg/Kg-dry	100	8/3/2016 5:42 PM
Surr: 2,4,6-Tribromophenol	48.8			39-132		%Rec	1	7/5/2016 7:25 PM
Surr: 2-Fluorobiphenyl	68.9			44-115		%Rec	1	7/5/2016 7:25 PM
Surr: 2-Fluorophenol	66.5			35-115		%Rec	1	7/5/2016 7:25 PM
Surr: Nitrobenzene-d5	75.6			37-122		%Rec	1	7/5/2016 7:25 PM
Surr: Phenol-d5	71.0			33-122		%Rec	1	7/5/2016 7:25 PM
Surr: Terphenyl-d14	154	Q		54-127		%Rec	1	7/5/2016 7:25 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	1.7	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
2-Methylnaphthalene	2.0	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Acenaphthene	7.6	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Acenaphthylene	0.26	Q	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Anthracene	10	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Benzo(a)anthracene	170	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Benzo(a)pyrene	8.8	J	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Benzo(b)fluoranthene	16	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Benzo(g,h,i)perylene	2.9	J	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Benzo(k)fluoranthene	0.049		0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Chrysene	20	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Dibenzo(a,h)anthracene	1.7	J	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Fluoranthene	23	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Fluorene	9.7	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Indeno(1,2,3-cd)pyrene	2.9	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Naphthalene	1.9	J	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Phenanthrene	22	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Pyrene	99	JQ	0.0075	0.0075	0.0075	mg/Kg-dry	10	7/22/2016 3:57 PM
Surr: 2-Fluorobiphenyl	73.9			46-115		%Rec	10	7/22/2016 3:57 PM
Surr: Nitrobenzene-d5	84.3			44-125		%Rec	10	7/22/2016 3:57 PM
Surr: Terphenyl-d14	3,420	JQ		58-133		%Rec	10	7/22/2016 3:57 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:45:00 AM
Project:	Camp Hero		
Lab ID:	1606593-004	**Matrix:**	Soil
Client Sample ID:	WDS-SB06-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/20/2016 12:20 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 9:30:00 AM
Project: Camp Hero
Lab ID: 1606593-005 **Matrix:** Soil
Client Sample ID: WDS-SB07-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0091	U	0.0041	0.0091	0.045	mg/Kg-dry	1	7/13/2016 2:20 AM
Aroclor 1221	0.0091	U	0.0041	0.0091	0.045	mg/Kg-dry	1	7/13/2016 2:20 AM
Aroclor 1232	0.0091	U	0.0061	0.0091	0.045	mg/Kg-dry	1	7/13/2016 2:20 AM
Aroclor 1242	0.0091	U	0.0051	0.0091	0.045	mg/Kg-dry	1	7/13/2016 2:20 AM
Aroclor 1248	0.0091	U	0.0048	0.0091	0.045	mg/Kg-dry	1	7/13/2016 2:20 AM
Aroclor 1254	0.0091	U	0.0057	0.0091	0.045	mg/Kg-dry	1	7/13/2016 2:20 AM
Aroclor 1260	0.0091	U	0.0040	0.0091	0.045	mg/Kg-dry	1	7/13/2016 2:20 AM
Aroclor 1262	0.0091	U	0.0040	0.0091	0.045	mg/Kg-dry	1	7/13/2016 2:20 AM
Aroclor 1268	0.0091	U	0.0033	0.0091	0.045	mg/Kg-dry	1	7/13/2016 2:20 AM
Surr: Tetrachloro-m-xylene	73.0			44-130		%Rec	1	7/13/2016 2:20 AM
Surr: Decachlorobiphenyl	93.2			60-125		%Rec	1	7/13/2016 2:20 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	13,000		68	180	460	mg/Kg-dry	100	7/21/2016 5:30 PM
Antimony	4.4		0.34	0.46	0.91	mg/Kg-dry	1	7/21/2016 3:08 PM
Arsenic	1.5	J	0.66	0.91	1.8	mg/Kg-dry	1	7/21/2016 3:08 PM
Barium	42		0.27	4.6	9.1	mg/Kg-dry	1	7/21/2016 3:08 PM
Beryllium	2.3		0.012	0.046	0.23	mg/Kg-dry	1	7/21/2016 3:08 PM
Cadmium	1.8		0.030	0.046	0.23	mg/Kg-dry	1	7/21/2016 3:08 PM
Calcium	1,400		2.7	9.1	46	mg/Kg-dry	1	7/21/2016 3:08 PM
Chromium	15		0.075	0.36	0.46	mg/Kg-dry	1	7/25/2016 3:50 PM
Cobalt	4.5		0.082	0.23	0.91	mg/Kg-dry	1	7/21/2016 3:08 PM
Copper	24		0.38	0.91	4.6	mg/Kg-dry	1	7/21/2016 3:08 PM
Iron	8,100		280	460	1,400	mg/Kg-dry	100	7/21/2016 5:30 PM
Lead	9.6		0.57	0.91	4.6	mg/Kg-dry	1	7/21/2016 3:08 PM
Magnesium	1,700		3.2	4.6	46	mg/Kg-dry	1	7/21/2016 3:08 PM
Manganese	96		0.17	0.23	0.91	mg/Kg-dry	1	7/21/2016 3:08 PM
Nickel	10		0.26	0.91	4.6	mg/Kg-dry	1	7/21/2016 3:08 PM
Potassium	880		2.1	9.1	18	mg/Kg-dry	1	7/21/2016 3:08 PM
Selenium	1.4	U	1.1	1.4	1.8	mg/Kg-dry	1	7/21/2016 3:08 PM
Silver	2.7		0.074	0.23	0.91	mg/Kg-dry	1	7/21/2016 3:08 PM
Sodium	130		1.9	4.6	46	mg/Kg-dry	1	7/21/2016 3:08 PM
Vanadium	17		0.12	0.91	2.3	mg/Kg-dry	1	7/21/2016 3:08 PM
Zinc	37		0.35	0.46	4.6	mg/Kg-dry	1	7/21/2016 3:08 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.089	J	0.044	0.045	0.18	mg/Kg-dry	10	7/26/2016 4:57 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: MB**
1,2,4-Trichlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
1,2-Dichlorobenzene	0.022	U	0.0096	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
1,3-Dichlorobenzene	0.022	U	0.0092	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
1,4-Dichlorobenzene	0.022	U	0.0071	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
2,4,5-Trichlorophenol	0.045	U	0.022	0.045	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 9:30:00 AM
Project: Camp Hero
Lab ID: 1606593-005 **Matrix:** Soil
Client Sample ID: WDS-SB07-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.045	U	0.025	0.045	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
2,4-Dichlorophenol	0.11	U	0.038	0.11	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
2,4-Dimethyl phenol	0.11	U	0.043	0.11	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
2,4-Dinitrophenol	0.22	UY	0.13	0.22	1.1	mg/Kg-dry	1	7/5/2016 7:50 PM
2,4-Dinitrotoluene	0.022	U	0.019	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
2,6-Dinitrotoluene	0.022	U	0.021	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
2-Chloronaphthalene	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
2-Chlorophenol	0.11	U	0.046	0.11	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
2-Methylphenol (o-Cresol)	0.11	U	0.048	0.11	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
2-Nitroaniline	0.022	UY	0.011	0.022	0.43	mg/Kg-dry	1	7/5/2016 7:50 PM
2-Nitrophenol	0.11	U	0.055	0.11	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
3,3´-Dichlorobenzidine	0.89	U	0.57	0.89	1.3	mg/Kg-dry	1	7/5/2016 7:50 PM
3-Nitroaniline	0.022	U	0.016	0.022	0.43	mg/Kg-dry	1	7/5/2016 7:50 PM
3/4-Methylphenol [m/p-Cresol]	0.11	U	0.079	0.11	0.43	mg/Kg-dry	1	7/5/2016 7:50 PM
4,6-Dinitro-2-methylphenol	0.11	UY	0.064	0.11	0.43	mg/Kg-dry	1	7/5/2016 7:50 PM
4-Bromophenyl phenyl ether	0.11	U	0.057	0.11	0.27	mg/Kg-dry	1	7/5/2016 7:50 PM
4-Chloro-3-methylphenol	0.045	U	0.023	0.045	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
4-Chloroaniline [p-Chloroaniline]	0.11	U	0.034	0.11	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
4-Chlorophenyl phenyl ether	0.022	U	0.013	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
4-Nitroaniline	0.11	U	0.032	0.11	0.43	mg/Kg-dry	1	7/5/2016 7:50 PM
4-Nitrophenol	0.45	U	0.32	0.45	1.1	mg/Kg-dry	1	7/5/2016 7:50 PM
Benzoic acid	0.45	UY Q	0.18	0.45	1.3	mg/Kg-dry	1	7/5/2016 7:50 PM
Benzyl alcohol	0.022	U	0.011	0.022	0.88	mg/Kg-dry	1	7/5/2016 7:50 PM
Bis(2-chloroethoxy) methane	0.022	U	0.0093	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Bis(2-chloroethyl) ether	0.045	U	0.024	0.045	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Bis(2-chloroisopropyl)ether	0.022	UZ	0.010	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Bis(2-ethylhexyl) phthalate	0.045	U	0.039	0.045	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Butyl benzyl phthalate	0.045	U	0.026	0.045	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Carbazole	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Di-n-butyl phthalate	0.045	U	0.024	0.045	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Di-n-octyl phthalate	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Dibenzofuran	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Diethyl phthalate	0.022	U	0.016	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Dimethyl phthalate	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Hexachlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Hexachlorobutadiene	0.022	U	0.020	0.022	0.067	mg/Kg-dry	1	7/5/2016 7:50 PM
Hexachloroethane	0.022	U	0.010	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Isophorone	0.022	U	0.0092	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
N-Nitroso-di-n-propylamine	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
N-Nitrosodimethylamine	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
N-Nitrosodiphenylamine	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Nitrobenzene	0.022	U	0.014	0.022	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Pentachlorophenol	0.11	U	0.084	0.11	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Phenol	0.11	U	0.048	0.11	0.21	mg/Kg-dry	1	7/5/2016 7:50 PM
Surr: 2,4,6-Tribromophenol	68.5			39-132		%Rec	1	7/5/2016 7:50 PM
Surr: 2-Fluorobiphenyl	70.0			44-115		%Rec	1	7/5/2016 7:50 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:30:00 AM
Project:	Camp Hero		
Lab ID:	1606593-005	**Matrix:**	Soil
Client Sample ID:	WDS-SB07-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	61.6			35-115		%Rec	1	7/5/2016 7:50 PM
Surr: Nitrobenzene-d5	71.1			37-122		%Rec	1	7/5/2016 7:50 PM
Surr: Phenol-d5	65.5			33-122		%Rec	1	7/5/2016 7:50 PM
Surr: Terphenyl-d14	69.7			54-127		%Rec	1	7/5/2016 7:50 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0050	Q	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
2-Methylnaphthalene	0.0055	Q	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Acenaphthene	0.0027	UQ	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Acenaphthylene	0.0027	UQ	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Anthracene	0.0027	UQ	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Benzo(a)anthracene	0.0051	Q	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Benzo(a)pyrene	0.0059		0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Benzo(b)fluoranthene	0.011	Q	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Benzo(g,h,i)perylene	0.0030		0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Benzo(k)fluoranthene	0.0030		0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Chrysene	0.0041	Q	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Dibenzo(a,h)anthracene	0.0027	U	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Fluoranthene	0.0090	Q	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Fluorene	0.0027	UQ	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Indeno(1,2,3-cd)pyrene	0.0036	Q	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Naphthalene	0.0046		0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Phenanthrene	0.0032	Q	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Pyrene	0.0077	Q	0.0027	0.0027	0.0027	mg/Kg-dry	3	7/22/2016 4:26 PM
Surr: 2-Fluorobiphenyl	89.5			46-115		%Rec	3	7/22/2016 4:26 PM
Surr: Nitrobenzene-d5	100			44-125		%Rec	3	7/22/2016 4:26 PM
Surr: Terphenyl-d14	99.7			58-133		%Rec	3	7/22/2016 4:26 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	27		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 1:10:00 PM
Project: Camp Hero
Lab ID: 1606593-006 **Matrix:** Soil
Client Sample ID: WDS-SB14-11

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0068	U	0.0031	0.0068	0.034	mg/Kg-dry	1	7/13/2016 2:44 AM
Aroclor 1221	0.0068	U	0.0031	0.0068	0.034	mg/Kg-dry	1	7/13/2016 2:44 AM
Aroclor 1232	0.0068	U	0.0046	0.0068	0.034	mg/Kg-dry	1	7/13/2016 2:44 AM
Aroclor 1242	0.0068	U	0.0038	0.0068	0.034	mg/Kg-dry	1	7/13/2016 2:44 AM
Aroclor 1248	0.0068	U	0.0036	0.0068	0.034	mg/Kg-dry	1	7/13/2016 2:44 AM
Aroclor 1254	0.0068	U	0.0043	0.0068	0.034	mg/Kg-dry	1	7/13/2016 2:44 AM
Aroclor 1260	0.0068	U	0.0030	0.0068	0.034	mg/Kg-dry	1	7/13/2016 2:44 AM
Aroclor 1262	0.0068	U	0.0030	0.0068	0.034	mg/Kg-dry	1	7/13/2016 2:44 AM
Aroclor 1268	0.0068	U	0.0025	0.0068	0.034	mg/Kg-dry	1	7/13/2016 2:44 AM
Surr: Tetrachloro-m-xylene	83.0			44-130		%Rec	1	7/13/2016 2:44 AM
Surr: Decachlorobiphenyl	94.2			60-125		%Rec	1	7/13/2016 2:44 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,200		49	130	330	mg/Kg-dry	100	7/21/2016 5:31 PM
Antimony	2.8		0.25	0.33	0.65	mg/Kg-dry	1	7/21/2016 3:09 PM
Arsenic	1.6		0.48	0.65	1.3	mg/Kg-dry	1	7/21/2016 3:09 PM
Barium	21		0.19	3.3	6.5	mg/Kg-dry	1	7/21/2016 3:09 PM
Beryllium	0.056	J	0.0083	0.033	0.16	mg/Kg-dry	1	7/21/2016 3:09 PM
Cadmium	0.033	U	0.022	0.033	0.16	mg/Kg-dry	1	7/21/2016 3:09 PM
Calcium	550		1.9	6.5	33	mg/Kg-dry	1	7/21/2016 3:09 PM
Chromium	11		0.054	0.26	0.33	mg/Kg-dry	1	7/25/2016 3:51 PM
Cobalt	2.9		0.059	0.16	0.65	mg/Kg-dry	1	7/21/2016 3:09 PM
Copper	32		0.27	0.65	3.3	mg/Kg-dry	1	7/21/2016 3:09 PM
Iron	15,000		20	33	98	mg/Kg-dry	10	7/21/2016 3:56 PM
Lead	3.0	J	0.41	0.65	3.3	mg/Kg-dry	1	7/21/2016 3:09 PM
Magnesium	870		2.3	3.3	33	mg/Kg-dry	1	7/21/2016 3:09 PM
Manganese	290		1.2	1.6	6.5	mg/Kg-dry	10	7/21/2016 3:56 PM
Nickel	4.2		0.18	0.65	3.3	mg/Kg-dry	1	7/21/2016 3:09 PM
Potassium	540		1.5	6.5	13	mg/Kg-dry	1	7/21/2016 3:09 PM
Selenium	0.98	U	0.76	0.98	1.3	mg/Kg-dry	1	7/21/2016 3:09 PM
Silver	0.16	U	0.054	0.16	0.65	mg/Kg-dry	1	7/21/2016 3:09 PM
Sodium	79		1.3	3.3	33	mg/Kg-dry	1	7/21/2016 3:09 PM
Vanadium	21		0.083	0.65	1.6	mg/Kg-dry	1	7/21/2016 3:09 PM
Zinc	9.6		0.25	0.33	3.3	mg/Kg-dry	1	7/21/2016 3:09 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.043	J	0.032	0.033	0.13	mg/Kg-dry	10	7/26/2016 4:58 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: MB**
1,2,4-Trichlorobenzene	0.017	U	0.0096	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
1,2-Dichlorobenzene	0.017	U	0.0074	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
1,3-Dichlorobenzene	0.017	U	0.0071	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
1,4-Dichlorobenzene	0.017	U	0.0055	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
2,4,5-Trichlorophenol	0.034	UX	0.017	0.034	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 1:10:00 PM
Project: Camp Hero
Lab ID: 1606593-006 **Matrix:** Soil
Client Sample ID: WDS-SB14-11

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.034	UX	0.019	0.034	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
2,4-Dichlorophenol	0.085	U	0.029	0.085	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
2,4-Dimethyl phenol	0.085	UX	0.033	0.085	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
2,4-Dinitrophenol	0.17	UY X	0.097	0.17	0.85	mg/Kg-dry	1	7/5/2016 11:59 AM
2,4-Dinitrotoluene	0.017	U	0.015	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
2,6-Dinitrotoluene	0.017	U	0.016	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
2-Chloronaphthalene	0.017	U	0.011	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
2-Chlorophenol	0.085	U	0.036	0.085	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
2-Methylphenol (o-Cresol)	0.085	U	0.037	0.085	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
2-Nitroaniline	0.017	UY	0.0083	0.017	0.33	mg/Kg-dry	1	7/5/2016 11:59 AM
2-Nitrophenol	0.085	UX	0.042	0.085	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
3,3´-Dichlorobenzidine	0.68	UX	0.44	0.68	1.0	mg/Kg-dry	1	7/5/2016 11:59 AM
3-Nitroaniline	0.017	U	0.012	0.017	0.33	mg/Kg-dry	1	7/5/2016 11:59 AM
3/4-Methylphenol [m/p-Cresol]	0.085	U	0.061	0.085	0.33	mg/Kg-dry	1	7/5/2016 11:59 AM
4,6-Dinitro-2-methylphenol	0.085	UY X	0.049	0.085	0.33	mg/Kg-dry	1	7/5/2016 11:59 AM
4-Bromophenyl phenyl ether	0.085	U	0.044	0.085	0.20	mg/Kg-dry	1	7/5/2016 11:59 AM
4-Chloro-3-methylphenol	0.034	U	0.018	0.034	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
4-Chloroaniline [p-Chloroaniline]	0.085	U	0.026	0.085	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
4-Chlorophenyl phenyl ether	0.017	U	0.010	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
4-Nitroaniline	0.085	UX	0.025	0.085	0.33	mg/Kg-dry	1	7/5/2016 11:59 AM
4-Nitrophenol	0.34	UX	0.25	0.34	0.85	mg/Kg-dry	1	7/5/2016 11:59 AM
Benzoic acid	0.34	UY QX	0.14	0.34	1.0	mg/Kg-dry	1	7/5/2016 11:59 AM
Benzyl alcohol	0.017	U	0.0082	0.017	0.68	mg/Kg-dry	1	7/5/2016 11:59 AM
Bis(2-chloroethoxy) methane	0.017	U	0.0071	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Bis(2-chloroethyl) ether	0.034	U	0.018	0.034	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Bis(2-chloroisopropyl)ether	0.017	UZ	0.0078	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Bis(2-ethylhexyl) phthalate	0.034	U	0.030	0.034	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Butyl benzyl phthalate	0.034	U	0.020	0.034	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Carbazole	0.017	U	0.012	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Di-n-butyl phthalate	0.034	U	0.018	0.034	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Di-n-octyl phthalate	0.017	U	0.012	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Dibenzofuran	0.017	U	0.0087	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Diethyl phthalate	0.017	U	0.013	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Dimethyl phthalate	0.017	U	0.011	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Hexachlorobenzene	0.017	U	0.0093	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Hexachlorobutadiene	0.017	U	0.016	0.017	0.051	mg/Kg-dry	1	7/5/2016 11:59 AM
Hexachloroethane	0.017	U	0.0079	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Isophorone	0.017	U	0.0071	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
N-Nitroso-di-n-propylamine	0.017	U	0.0095	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
N-Nitrosodimethylamine	0.017	U	0.0083	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
N-Nitrosodiphenylamine	0.017	UX	0.0083	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Nitrobenzene	0.017	U	0.011	0.017	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Pentachlorophenol	0.085	UX	0.064	0.085	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM
Phenol	0.085	U	0.037	0.085	0.16	mg/Kg-dry	1	7/5/2016 11:59 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 1:10:00 PM
Project:	Camp Hero		
Lab ID:	1606593-006	**Matrix:**	Soil
Client Sample ID:	WDS-SB14-11		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	16.7	JQ		39-132		%Rec	1	7/5/2016 11:59 AM
Surr: 2-Fluorobiphenyl	72.8			44-115		%Rec	1	7/5/2016 11:59 AM
Surr: 2-Fluorophenol	32.6	JQ		35-115		%Rec	1	7/5/2016 11:59 AM
Surr: Nitrobenzene-d5	77.2			37-122		%Rec	1	7/5/2016 11:59 AM
Surr: Phenol-d5	45.3			33-122		%Rec	1	7/5/2016 11:59 AM
Surr: Terphenyl-d14	74.6			54-127		%Rec	1	7/5/2016 11:59 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0046	Q	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
2-Methylnaphthalene	0.0054	Q	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Acenaphthene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Acenaphthylene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Anthracene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Benzo(a)anthracene	0.0021	Q	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Benzo(a)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Benzo(b)fluoranthene	0.0025	Q	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Benzo(g,h,i)perylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Benzo(k)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Chrysene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Dibenzo(a,h)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Fluoranthene	0.0045	Q	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Fluorene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Indeno(1,2,3-cd)pyrene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Naphthalene	0.0025		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Phenanthrene	0.0046	Q	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Pyrene	0.0035	Q	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 4:55 PM
Surr: 2-Fluorobiphenyl	89.7			46-115		%Rec	3	7/22/2016 4:55 PM
Surr: Nitrobenzene-d5	91.6			44-125		%Rec	3	7/22/2016 4:55 PM
Surr: Terphenyl-d14	101			58-133		%Rec	3	7/22/2016 4:55 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	3.3		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606593-007	**Matrix:**	Soil
Client Sample ID:	WDS-SB15-13		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0072	U	0.0033	0.0072	0.036	mg/Kg-dry	1	7/13/2016 3:08 AM
Aroclor 1221	0.0072	U	0.0033	0.0072	0.036	mg/Kg-dry	1	7/13/2016 3:08 AM
Aroclor 1232	0.0072	U	0.0049	0.0072	0.036	mg/Kg-dry	1	7/13/2016 3:08 AM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.036	mg/Kg-dry	1	7/13/2016 3:08 AM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.036	mg/Kg-dry	1	7/13/2016 3:08 AM
Aroclor 1254	0.0072	U	0.0046	0.0072	0.036	mg/Kg-dry	1	7/13/2016 3:08 AM
Aroclor 1260	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/13/2016 3:08 AM
Aroclor 1262	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/13/2016 3:08 AM
Aroclor 1268	0.0072	U	0.0027	0.0072	0.036	mg/Kg-dry	1	7/13/2016 3:08 AM
Surr: Tetrachloro-m-xylene	86.4			44-130		%Rec	1	7/13/2016 3:08 AM
Surr: Decachlorobiphenyl	109			60-125		%Rec	1	7/13/2016 3:08 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	10,000		51	140	340	mg/Kg-dry	100	7/21/2016 5:33 PM
Antimony	4.0		0.26	0.34	0.69	mg/Kg-dry	1	7/21/2016 3:11 PM
Arsenic	3.0		0.50	0.69	1.4	mg/Kg-dry	1	7/21/2016 3:11 PM
Barium	47		0.20	3.4	6.9	mg/Kg-dry	1	7/21/2016 3:11 PM
Beryllium	0.20		0.0087	0.034	0.17	mg/Kg-dry	1	7/21/2016 3:11 PM
Cadmium	0.029	J	0.023	0.034	0.17	mg/Kg-dry	1	7/21/2016 3:11 PM
Calcium	460		2.0	6.9	34	mg/Kg-dry	1	7/21/2016 3:11 PM
Chromium	13		0.057	0.27	0.34	mg/Kg-dry	1	7/25/2016 3:53 PM
Cobalt	4.2		0.062	0.17	0.69	mg/Kg-dry	1	7/21/2016 3:11 PM
Copper	31		0.29	0.69	3.4	mg/Kg-dry	1	7/21/2016 3:11 PM
Iron	12,000		21	34	100	mg/Kg-dry	10	7/21/2016 3:58 PM
Lead	3.7		0.43	0.69	3.4	mg/Kg-dry	1	7/21/2016 3:11 PM
Magnesium	2,500		24	34	340	mg/Kg-dry	10	7/21/2016 3:58 PM
Manganese	240		1.3	1.7	6.9	mg/Kg-dry	10	7/21/2016 3:58 PM
Nickel	11		0.19	0.69	3.4	mg/Kg-dry	1	7/21/2016 3:11 PM
Potassium	1,700		1.6	6.9	14	mg/Kg-dry	1	7/21/2016 3:11 PM
Selenium	1.0	U	0.80	1.0	1.4	mg/Kg-dry	1	7/21/2016 3:11 PM
Silver	0.17	U	0.056	0.17	0.69	mg/Kg-dry	1	7/21/2016 3:11 PM
Sodium	87		1.4	3.4	34	mg/Kg-dry	1	7/21/2016 3:11 PM
Vanadium	18		0.087	0.69	1.7	mg/Kg-dry	1	7/21/2016 3:11 PM
Zinc	21		0.27	0.34	3.4	mg/Kg-dry	1	7/21/2016 3:11 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.060	J	0.035	0.037	0.15	mg/Kg-dry	10	7/26/2016 4:59 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: MB**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
1,2-Dichlorobenzene	0.018	U	0.0079	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 11:45:00 AM
Project: Camp Hero
Lab ID: 1606593-007 **Matrix:** Soil
Client Sample ID: WDS-SB15-13

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
2,4-Dichlorophenol	0.091	U	0.031	0.091	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
2,4-Dimethyl phenol	0.091	U	0.035	0.091	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.91	mg/Kg-dry	1	7/5/2016 8:15 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
2-Chlorophenol	0.091	U	0.038	0.091	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
2-Methylphenol (o-Cresol)	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
2-Nitroaniline	0.018	UY	0.0089	0.018	0.35	mg/Kg-dry	1	7/5/2016 8:15 PM
2-Nitrophenol	0.091	U	0.045	0.091	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
3,3´-Dichlorobenzidine	0.73	U	0.47	0.73	1.1	mg/Kg-dry	1	7/5/2016 8:15 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	7/5/2016 8:15 PM
3/4-Methylphenol [m/p-Cresol]	0.091	U	0.065	0.091	0.35	mg/Kg-dry	1	7/5/2016 8:15 PM
4,6-Dinitro-2-methylphenol	0.091	UY	0.052	0.091	0.35	mg/Kg-dry	1	7/5/2016 8:15 PM
4-Bromophenyl phenyl ether	0.091	U	0.046	0.091	0.22	mg/Kg-dry	1	7/5/2016 8:15 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
4-Chloroaniline [p-Chloroaniline]	0.091	U	0.027	0.091	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
4-Nitroaniline	0.091	U	0.026	0.091	0.35	mg/Kg-dry	1	7/5/2016 8:15 PM
4-Nitrophenol	0.36	U	0.26	0.36	0.91	mg/Kg-dry	1	7/5/2016 8:15 PM
Benzoic acid	0.36	UY Q	0.15	0.36	1.1	mg/Kg-dry	1	7/5/2016 8:15 PM
Benzyl alcohol	0.018	U	0.0088	0.018	0.72	mg/Kg-dry	1	7/5/2016 8:15 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0076	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Bis(2-chloroethyl) ether	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0083	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Butyl benzyl phthalate	0.036	U	0.022	0.036	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Carbazole	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Di-n-butyl phthalate	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Dibenzofuran	0.018	U	0.0093	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Hexachlorobenzene	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	7/5/2016 8:15 PM
Hexachloroethane	0.018	U	0.0084	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Isophorone	0.018	U	0.0076	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
N-Nitrosodimethylamine	0.018	U	0.0089	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
N-Nitrosodiphenylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Pentachlorophenol	0.091	U	0.069	0.091	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Phenol	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	7/5/2016 8:15 PM
Surr: 2,4,6-Tribromophenol	35.5	JQ		39-132		%Rec	1	7/5/2016 8:15 PM
Surr: 2-Fluorobiphenyl	76.6			44-115		%Rec	1	7/5/2016 8:15 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606593-007	**Matrix:**	Soil
Client Sample ID:	WDS-SB15-13		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	43.4			35-115		%Rec	1	7/5/2016 8:15 PM
Surr: Nitrobenzene-d5	79.7			37-122		%Rec	1	7/5/2016 8:15 PM
Surr: Phenol-d5	52.1			33-122		%Rec	1	7/5/2016 8:15 PM
Surr: Terphenyl-d14	70.6			54-127		%Rec	1	7/5/2016 8:15 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
2-Methylnaphthalene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Acenaphthene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Acenaphthylene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Anthracene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Benzo(a)anthracene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Benzo(a)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Benzo(b)fluoranthene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Benzo(k)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Chrysene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Fluoranthene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Fluorene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Indeno(1,2,3-cd)pyrene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Naphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Phenanthrene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Pyrene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:25 PM
Surr: 2-Fluorobiphenyl	99.7			46-115		%Rec	3	7/22/2016 5:25 PM
Surr: Nitrobenzene-d5	107			44-125		%Rec	3	7/22/2016 5:25 PM
Surr: Terphenyl-d14	113			58-133		%Rec	3	7/22/2016 5:25 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.0		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 12:15:00 PM
Project: Camp Hero
Lab ID: 1606593-008 **Matrix:** Soil
Client Sample ID: WDS-SB16-13

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0074	U	0.0033	0.0074	0.037	mg/Kg-dry	1	7/13/2016 3:33 AM
Aroclor 1221	0.0074	U	0.0033	0.0074	0.037	mg/Kg-dry	1	7/13/2016 3:33 AM
Aroclor 1232	0.0074	U	0.0050	0.0074	0.037	mg/Kg-dry	1	7/13/2016 3:33 AM
Aroclor 1242	0.0074	U	0.0041	0.0074	0.037	mg/Kg-dry	1	7/13/2016 3:33 AM
Aroclor 1248	0.0074	U	0.0039	0.0074	0.037	mg/Kg-dry	1	7/13/2016 3:33 AM
Aroclor 1254	0.0074	U	0.0047	0.0074	0.037	mg/Kg-dry	1	7/13/2016 3:33 AM
Aroclor 1260	0.0074	U	0.0032	0.0074	0.037	mg/Kg-dry	1	7/13/2016 3:33 AM
Aroclor 1262	0.0074	U	0.0032	0.0074	0.037	mg/Kg-dry	1	7/13/2016 3:33 AM
Aroclor 1268	0.0074	U	0.0027	0.0074	0.037	mg/Kg-dry	1	7/13/2016 3:33 AM
Surr: Tetrachloro-m-xylene	95.2			44-130		%Rec	1	7/13/2016 3:33 AM
Surr: Decachlorobiphenyl	109			60-125		%Rec	1	7/13/2016 3:33 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,500		56	150	370	mg/Kg-dry	100	7/21/2016 5:34 PM
Antimony	1.7		0.28	0.37	0.75	mg/Kg-dry	1	7/21/2016 3:12 PM
Arsenic	0.85	J	0.54	0.75	1.5	mg/Kg-dry	1	7/21/2016 3:12 PM
Barium	32		0.22	3.7	7.5	mg/Kg-dry	1	7/21/2016 3:12 PM
Beryllium	0.046	J	0.0094	0.037	0.19	mg/Kg-dry	1	7/21/2016 3:12 PM
Cadmium	0.037	U	0.025	0.037	0.19	mg/Kg-dry	1	7/21/2016 3:12 PM
Calcium	600		2.2	7.5	37	mg/Kg-dry	1	7/21/2016 3:12 PM
Chromium	8.3		0.061	0.30	0.37	mg/Kg-dry	1	7/25/2016 3:54 PM
Cobalt	1.8		0.067	0.19	0.75	mg/Kg-dry	1	7/21/2016 3:12 PM
Copper	24		0.31	0.75	3.7	mg/Kg-dry	1	7/21/2016 3:12 PM
Iron	10,000		230	370	1,100	mg/Kg-dry	100	7/21/2016 5:34 PM
Lead	1.9	J	0.46	0.75	3.7	mg/Kg-dry	1	7/21/2016 3:12 PM
Magnesium	1,300		2.6	3.7	37	mg/Kg-dry	1	7/21/2016 3:12 PM
Manganese	120		0.14	0.19	0.75	mg/Kg-dry	1	7/21/2016 3:12 PM
Nickel	4.1		0.21	0.75	3.7	mg/Kg-dry	1	7/21/2016 3:12 PM
Potassium	1,000		1.7	7.5	15	mg/Kg-dry	1	7/21/2016 3:12 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	7/21/2016 3:12 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	7/21/2016 3:12 PM
Sodium	79		1.5	3.7	37	mg/Kg-dry	1	7/21/2016 3:12 PM
Vanadium	15		0.094	0.75	1.9	mg/Kg-dry	1	7/21/2016 3:12 PM
Zinc	12		0.29	0.37	3.7	mg/Kg-dry	1	7/21/2016 3:12 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.075	JG	0.034	0.035	0.14	mg/Kg-dry	10	7/25/2016 7:24 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: MB**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
1,2-Dichlorobenzene	0.018	U	0.0079	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
1,4-Dichlorobenzene	0.018	U	0.0059	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 12:15:00 PM
Project: Camp Hero
Lab ID: 1606593-008 **Matrix:** Soil
Client Sample ID: WDS-SB16-13

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
2,4-Dichlorophenol	0.092	U	0.031	0.092	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
2,4-Dimethyl phenol	0.092	U	0.035	0.092	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.91	mg/Kg-dry	1	7/5/2016 8:40 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
2-Chlorophenol	0.092	U	0.038	0.092	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
2-Methylphenol (o-Cresol)	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
2-Nitroaniline	0.018	UY	0.0089	0.018	0.35	mg/Kg-dry	1	7/5/2016 8:40 PM
2-Nitrophenol	0.092	U	0.045	0.092	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
3,3´-Dichlorobenzidine	0.73	U	0.47	0.73	1.1	mg/Kg-dry	1	7/5/2016 8:40 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	7/5/2016 8:40 PM
3/4-Methylphenol [m/p-Cresol]	0.092	U	0.065	0.092	0.35	mg/Kg-dry	1	7/5/2016 8:40 PM
4,6-Dinitro-2-methylphenol	0.092	UY	0.053	0.092	0.35	mg/Kg-dry	1	7/5/2016 8:40 PM
4-Bromophenyl phenyl ether	0.092	U	0.047	0.092	0.22	mg/Kg-dry	1	7/5/2016 8:40 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
4-Chloroaniline [p-Chloroaniline]	0.092	U	0.028	0.092	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
4-Nitroaniline	0.092	U	0.026	0.092	0.35	mg/Kg-dry	1	7/5/2016 8:40 PM
4-Nitrophenol	0.37	U	0.26	0.37	0.91	mg/Kg-dry	1	7/5/2016 8:40 PM
Benzoic acid	0.37	UY Q	0.15	0.37	1.1	mg/Kg-dry	1	7/5/2016 8:40 PM
Benzyl alcohol	0.018	U	0.0088	0.018	0.73	mg/Kg-dry	1	7/5/2016 8:40 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0084	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.032	0.037	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Carbazole	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Di-n-octyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Dibenzofuran	0.018	U	0.0093	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Hexachlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	7/5/2016 8:40 PM
Hexachloroethane	0.018	U	0.0084	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Isophorone	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
N-Nitrosodimethylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
N-Nitrosodiphenylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Nitrobenzene	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Pentachlorophenol	0.092	U	0.069	0.092	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Phenol	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	7/5/2016 8:40 PM
Surr: 2,4,6-Tribromophenol	33.6	JQ		39-132		%Rec	1	7/5/2016 8:40 PM
Surr: 2-Fluorobiphenyl	72.7			44-115		%Rec	1	7/5/2016 8:40 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 12:15:00 PM
Project:	Camp Hero		
Lab ID:	1606593-008	**Matrix:**	Soil
Client Sample ID:	WDS-SB16-13		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	46.7			35-115		%Rec	1	7/5/2016 8:40 PM
Surr: Nitrobenzene-d5	75.5			37-122		%Rec	1	7/5/2016 8:40 PM
Surr: Phenol-d5	57.0			33-122		%Rec	1	7/5/2016 8:40 PM
Surr: Terphenyl-d14	70.6			54-127		%Rec	1	7/5/2016 8:40 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
2-Methylnaphthalene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Acenaphthene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Acenaphthylene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Anthracene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Benzo(a)anthracene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Benzo(a)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Benzo(b)fluoranthene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Benzo(k)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Chrysene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Fluoranthene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Fluorene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Indeno(1,2,3-cd)pyrene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Naphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Phenanthrene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Pyrene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 5:53 PM
Surr: 2-Fluorobiphenyl	89.9			46-115		%Rec	3	7/22/2016 5:53 PM
Surr: Nitrobenzene-d5	95.0			44-125		%Rec	3	7/22/2016 5:53 PM
Surr: Terphenyl-d14	97.3			58-133		%Rec	3	7/22/2016 5:53 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.9		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606593-009	**Matrix:**	Soil
Client Sample ID:	WDS-SB17-13		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0069	U	0.0031	0.0069	0.034	mg/Kg-dry	1	7/13/2016 3:57 AM
Aroclor 1221	0.0069	U	0.0031	0.0069	0.034	mg/Kg-dry	1	7/13/2016 3:57 AM
Aroclor 1232	0.0069	U	0.0047	0.0069	0.034	mg/Kg-dry	1	7/13/2016 3:57 AM
Aroclor 1242	0.0069	U	0.0039	0.0069	0.034	mg/Kg-dry	1	7/13/2016 3:57 AM
Aroclor 1248	0.0069	U	0.0037	0.0069	0.034	mg/Kg-dry	1	7/13/2016 3:57 AM
Aroclor 1254	0.0069	U	0.0044	0.0069	0.034	mg/Kg-dry	1	7/13/2016 3:57 AM
Aroclor 1260	0.0069	U	0.0030	0.0069	0.034	mg/Kg-dry	1	7/13/2016 3:57 AM
Aroclor 1262	0.0069	U	0.0030	0.0069	0.034	mg/Kg-dry	1	7/13/2016 3:57 AM
Aroclor 1268	0.0069	U	0.0025	0.0069	0.034	mg/Kg-dry	1	7/13/2016 3:57 AM
Surr: Tetrachloro-m-xylene	102			44-130		%Rec	1	7/13/2016 3:57 AM
Surr: Decachlorobiphenyl	116			60-125		%Rec	1	7/13/2016 3:57 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,000		50	130	330	mg/Kg-dry	100	7/21/2016 5:35 PM
Antimony	2.1		0.25	0.33	0.66	mg/Kg-dry	1	7/21/2016 3:13 PM
Arsenic	0.87	J	0.48	0.66	1.3	mg/Kg-dry	1	7/21/2016 3:13 PM
Barium	36		0.20	3.3	6.6	mg/Kg-dry	1	7/21/2016 3:13 PM
Beryllium	0.033	U	0.0084	0.033	0.17	mg/Kg-dry	1	7/21/2016 3:13 PM
Cadmium	0.033	U	0.022	0.033	0.17	mg/Kg-dry	1	7/21/2016 3:13 PM
Calcium	780		1.9	6.6	33	mg/Kg-dry	1	7/21/2016 3:13 PM
Chromium	9.2		0.054	0.26	0.33	mg/Kg-dry	1	7/25/2016 3:55 PM
Cobalt	2.2		0.059	0.17	0.66	mg/Kg-dry	1	7/21/2016 3:13 PM
Copper	23		0.27	0.66	3.3	mg/Kg-dry	1	7/21/2016 3:13 PM
Iron	10,000		210	330	990	mg/Kg-dry	100	7/21/2016 5:35 PM
Lead	2.0	J	0.41	0.66	3.3	mg/Kg-dry	1	7/21/2016 3:13 PM
Magnesium	1,500		2.3	3.3	33	mg/Kg-dry	1	7/21/2016 3:13 PM
Manganese	150		0.12	0.17	0.66	mg/Kg-dry	1	7/21/2016 3:13 PM
Nickel	4.5		0.19	0.66	3.3	mg/Kg-dry	1	7/21/2016 3:13 PM
Potassium	1,100		1.5	6.6	13	mg/Kg-dry	1	7/21/2016 3:13 PM
Selenium	0.99	U	0.77	0.99	1.3	mg/Kg-dry	1	7/21/2016 3:13 PM
Silver	0.17	U	0.054	0.17	0.66	mg/Kg-dry	1	7/21/2016 3:13 PM
Sodium	100		1.3	3.3	33	mg/Kg-dry	1	7/21/2016 3:13 PM
Vanadium	15		0.084	0.66	1.7	mg/Kg-dry	1	7/21/2016 3:13 PM
Zinc	13		0.26	0.33	3.3	mg/Kg-dry	1	7/21/2016 3:13 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.091	JG	0.033	0.034	0.14	mg/Kg-dry	10	7/25/2016 7:25 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.017	U	0.0097	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
1,2-Dichlorobenzene	0.017	U	0.0075	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
1,3-Dichlorobenzene	0.017	U	0.0071	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
1,4-Dichlorobenzene	0.017	U	0.0055	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
2,4,5-Trichlorophenol	0.034	U	0.017	0.034	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 12:50:00 PM
Project: Camp Hero
Lab ID: 1606593-009 **Matrix:** Soil
Client Sample ID: WDS-SB17-13

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.034	UY	0.019	0.034	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
2,4-Dichlorophenol	0.086	U	0.030	0.086	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
2,4-Dimethyl phenol	0.086	U	0.033	0.086	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
2,4-Dinitrophenol	0.17	UY	0.098	0.17	0.86	mg/Kg-dry	1	7/8/2016 5:28 PM
2,4-Dinitrotoluene	0.017	UY	0.015	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
2,6-Dinitrotoluene	0.017	U	0.016	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
2-Chloronaphthalene	0.017	U	0.012	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
2-Chlorophenol	0.086	U	0.036	0.086	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
2-Methylphenol (o-Cresol)	0.086	U	0.037	0.086	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
2-Nitroaniline	0.017	UY	0.0084	0.017	0.33	mg/Kg-dry	1	7/8/2016 5:28 PM
2-Nitrophenol	0.086	UY	0.043	0.086	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
3,3´-Dichlorobenzidine	0.69	U	0.44	0.69	1.0	mg/Kg-dry	1	7/8/2016 5:28 PM
3-Nitroaniline	0.017	UY	0.012	0.017	0.33	mg/Kg-dry	1	7/8/2016 5:28 PM
3/4-Methylphenol [m/p-Cresol]	0.086	U	0.061	0.086	0.33	mg/Kg-dry	1	7/8/2016 5:28 PM
4,6-Dinitro-2-methylphenol	0.086	UY	0.050	0.086	0.33	mg/Kg-dry	1	7/8/2016 5:28 PM
4-Bromophenyl phenyl ether	0.086	U	0.044	0.086	0.21	mg/Kg-dry	1	7/8/2016 5:28 PM
4-Chloro-3-methylphenol	0.034	U	0.018	0.034	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
4-Chloroaniline [p-Chloroaniline]	0.086	U	0.026	0.086	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
4-Chlorophenyl phenyl ether	0.017	U	0.010	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
4-Nitroaniline	0.086	UY	0.025	0.086	0.33	mg/Kg-dry	1	7/8/2016 5:28 PM
4-Nitrophenol	0.34	UY	0.25	0.34	0.86	mg/Kg-dry	1	7/8/2016 5:28 PM
Benzoic acid	0.34	U	0.14	0.34	1.0	mg/Kg-dry	1	7/8/2016 5:28 PM
Benzyl alcohol	0.017	U	0.0083	0.017	0.68	mg/Kg-dry	1	7/8/2016 5:28 PM
Bis(2-chloroethoxy) methane	0.017	U	0.0072	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Bis(2-chloroethyl) ether	0.034	U	0.019	0.034	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Bis(2-chloroisopropyl)ether	0.017	UZ	0.0079	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Bis(2-ethylhexyl) phthalate	0.034	U	0.030	0.034	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Butyl benzyl phthalate	0.034	U	0.020	0.034	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Carbazole	0.017	U	0.012	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Di-n-butyl phthalate	0.034	U	0.019	0.034	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Di-n-octyl phthalate	0.017	U	0.012	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Dibenzofuran	0.017	U	0.0088	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Diethyl phthalate	0.017	U	0.013	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Dimethyl phthalate	0.017	U	0.012	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Hexachlorobenzene	0.017	U	0.0094	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Hexachlorobutadiene	0.017	U	0.016	0.017	0.052	mg/Kg-dry	1	7/8/2016 5:28 PM
Hexachloroethane	0.017	U	0.0079	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Isophorone	0.017	U	0.0071	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
N-Nitroso-di-n-propylamine	0.017	U	0.0096	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
N-Nitrosodimethylamine	0.017	U	0.0084	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
N-Nitrosodiphenylamine	0.017	U	0.0083	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Nitrobenzene	0.017	U	0.011	0.017	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Pentachlorophenol	0.086	U	0.065	0.086	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Phenol	0.086	U	0.037	0.086	0.17	mg/Kg-dry	1	7/8/2016 5:28 PM
Surr: 2,4,6-Tribromophenol	39.1	J		39-132		%Rec	1	7/8/2016 5:28 PM
Surr: 2-Fluorobiphenyl	77.5			44-115		%Rec	1	7/8/2016 5:28 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 12:50:00 PM
Project:	Camp Hero		
Lab ID:	1606593-009	**Matrix:**	Soil
Client Sample ID:	WDS-SB17-13		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	45.4			35-115		%Rec	1	7/8/2016 5:28 PM
Surr: Nitrobenzene-d5	88.4			37-122		%Rec	1	7/8/2016 5:28 PM
Surr: Phenol-d5	55.4			33-122		%Rec	1	7/8/2016 5:28 PM
Surr: Terphenyl-d14	77.8			54-127		%Rec	1	7/8/2016 5:28 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
2-Methylnaphthalene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Acenaphthene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Acenaphthylene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Anthracene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Benzo(a)anthracene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Benzo(a)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Benzo(b)fluoranthene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Benzo(g,h,i)perylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Benzo(k)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Chrysene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Dibenzo(a,h)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Fluoranthene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Fluorene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Indeno(1,2,3-cd)pyrene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Naphthalene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Phenanthrene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Pyrene	0.0021	UQ	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/22/2016 6:21 PM
Surr: 2-Fluorobiphenyl	83.5			46-115		%Rec	3	7/22/2016 6:21 PM
Surr: Nitrobenzene-d5	86.4			44-125		%Rec	3	7/22/2016 6:21 PM
Surr: Terphenyl-d14	98.2			58-133		%Rec	3	7/22/2016 6:21 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	5.3		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 10:25:00 AM
Project:	Camp Hero		
Lab ID:	1606593-010	**Matrix:**	Soil
Client Sample ID:	MP-SB01-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Acenaphthylene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Anthracene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Benzo(a)anthracene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Benzo(a)pyrene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Benzo(b)fluoranthene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Benzo(g,h,i)perylene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Benzo(k)fluoranthene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Chrysene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Dibenzo(a,h)anthracene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Fluoranthene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Fluorene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Indeno(1,2,3-cd)pyrene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Phenanthrene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Pyrene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 6:50 PM
Surr: 2-Fluorobiphenyl	62.3			46-115		%Rec	3	7/22/2016 6:50 PM
Surr: Nitrobenzene-d5	41.5	Q		44-125		%Rec	3	7/22/2016 6:50 PM
Surr: Terphenyl-d14	87.8			58-133		%Rec	3	7/22/2016 6:50 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	20		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 10:25:00 AM
Project:	Camp Hero		
Lab ID:	1606593-011	**Matrix:**	Soil
Client Sample ID:	MP-SB01-04 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Acenaphthylene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Anthracene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Benzo(a)anthracene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Benzo(a)pyrene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Benzo(b)fluoranthene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Benzo(g,h,i)perylene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Benzo(k)fluoranthene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Chrysene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Dibenzo(a,h)anthracene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Fluoranthene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Fluorene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Indeno(1,2,3-cd)pyrene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Phenanthrene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Pyrene	0.0025	UQ	0.0025	0.0025	0.0025	mg/Kg-dry	3	7/22/2016 7:17 PM
Surr: 2-Fluorobiphenyl	79.3			46-115		%Rec	3	7/22/2016 7:17 PM
Surr: Nitrobenzene-d5	86.7			44-125		%Rec	3	7/22/2016 7:17 PM
Surr: Terphenyl-d14	84.4			58-133		%Rec	3	7/22/2016 7:17 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 9:00:00 AM
Project: Camp Hero
Lab ID: 1606593-012 **Matrix:** Soil
Client Sample ID: H21-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0072	U	0.0032	0.0072	0.035	mg/Kg-dry	1	7/13/2016 4:21 AM
Aroclor 1221	0.0072	U	0.0032	0.0072	0.035	mg/Kg-dry	1	7/13/2016 4:21 AM
Aroclor 1232	0.0072	U	0.0048	0.0072	0.035	mg/Kg-dry	1	7/13/2016 4:21 AM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.035	mg/Kg-dry	1	7/13/2016 4:21 AM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.035	mg/Kg-dry	1	7/13/2016 4:21 AM
Aroclor 1254	0.0072	U	0.0045	0.0072	0.035	mg/Kg-dry	1	7/13/2016 4:21 AM
Aroclor 1260	0.0072	U	0.0031	0.0072	0.035	mg/Kg-dry	1	7/13/2016 4:21 AM
Aroclor 1262	0.0072	U	0.0031	0.0072	0.035	mg/Kg-dry	1	7/13/2016 4:21 AM
Aroclor 1268	0.0072	U	0.0026	0.0072	0.035	mg/Kg-dry	1	7/13/2016 4:21 AM
Surr: Tetrachloro-m-xylene	95.3			44-130		%Rec	1	7/13/2016 4:21 AM
Surr: Decachlorobiphenyl	110			60-125		%Rec	1	7/13/2016 4:21 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,400		53	140	350	mg/Kg-dry	100	7/21/2016 5:37 PM
Antimony	2.3		0.27	0.35	0.71	mg/Kg-dry	1	7/21/2016 3:28 PM
Arsenic	1.4	J	0.51	0.71	1.4	mg/Kg-dry	1	7/21/2016 3:28 PM
Barium	22		0.21	3.5	7.1	mg/Kg-dry	1	7/21/2016 3:28 PM
Beryllium	0.062	J	0.0090	0.035	0.18	mg/Kg-dry	1	7/21/2016 3:28 PM
Cadmium	0.038	J	0.023	0.035	0.18	mg/Kg-dry	1	7/21/2016 3:28 PM
Calcium	490		2.1	7.1	35	mg/Kg-dry	1	7/21/2016 3:28 PM
Chromium	9.8		0.058	0.28	0.35	mg/Kg-dry	1	7/25/2016 4:08 PM
Cobalt	2.5		0.064	0.18	0.71	mg/Kg-dry	1	7/21/2016 3:28 PM
Copper	32		0.29	0.71	3.5	mg/Kg-dry	1	7/21/2016 3:28 PM
Iron	11,000		220	350	1,100	mg/Kg-dry	100	7/21/2016 5:37 PM
Lead	3.0	J	0.44	0.71	3.5	mg/Kg-dry	1	7/21/2016 3:28 PM
Magnesium	1,200		2.5	3.5	35	mg/Kg-dry	1	7/21/2016 3:28 PM
Manganese	120		0.13	0.18	0.71	mg/Kg-dry	1	7/21/2016 3:28 PM
Nickel	5.8		0.20	0.71	3.5	mg/Kg-dry	1	7/21/2016 3:28 PM
Potassium	750		1.7	7.1	14	mg/Kg-dry	1	7/21/2016 3:28 PM
Selenium	1.1	U	0.83	1.1	1.4	mg/Kg-dry	1	7/21/2016 3:28 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	7/21/2016 3:28 PM
Sodium	67		1.4	3.5	35	mg/Kg-dry	1	7/21/2016 3:28 PM
Vanadium	17		0.090	0.71	1.8	mg/Kg-dry	1	7/21/2016 3:28 PM
Zinc	13		0.27	0.35	3.5	mg/Kg-dry	1	7/21/2016 3:28 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.11	JG	0.034	0.035	0.14	mg/Kg-dry	10	7/25/2016 7:26 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
1,2-Dichlorobenzene	0.018	U	0.0079	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 9:00:00 AM
Project: Camp Hero
Lab ID: 1606593-012 **Matrix:** Soil
Client Sample ID: H21-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	UY	0.020	0.036	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
2,4-Dichlorophenol	0.091	U	0.031	0.091	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
2,4-Dimethyl phenol	0.091	U	0.035	0.091	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.91	mg/Kg-dry	1	7/8/2016 5:52 PM
2,4-Dinitrotoluene	0.018	UY	0.016	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
2-Chlorophenol	0.091	U	0.038	0.091	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
2-Methylphenol (o-Cresol)	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
2-Nitroaniline	0.018	UY	0.0089	0.018	0.35	mg/Kg-dry	1	7/8/2016 5:52 PM
2-Nitrophenol	0.091	UY	0.045	0.091	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
3,3´-Dichlorobenzidine	0.73	U	0.47	0.73	1.1	mg/Kg-dry	1	7/8/2016 5:52 PM
3-Nitroaniline	0.018	UY	0.013	0.018	0.35	mg/Kg-dry	1	7/8/2016 5:52 PM
3/4-Methylphenol [m/p-Cresol]	0.091	U	0.065	0.091	0.35	mg/Kg-dry	1	7/8/2016 5:52 PM
4,6-Dinitro-2-methylphenol	0.091	UY	0.052	0.091	0.35	mg/Kg-dry	1	7/8/2016 5:52 PM
4-Bromophenyl phenyl ether	0.091	U	0.046	0.091	0.22	mg/Kg-dry	1	7/8/2016 5:52 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
4-Chloroaniline [p-Chloroaniline]	0.091	U	0.027	0.091	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
4-Nitroaniline	0.091	UY	0.026	0.091	0.35	mg/Kg-dry	1	7/8/2016 5:52 PM
4-Nitrophenol	0.36	UY	0.26	0.36	0.91	mg/Kg-dry	1	7/8/2016 5:52 PM
Benzoic acid	0.33	J	0.15	0.36	1.1	mg/Kg-dry	1	7/8/2016 5:52 PM
Benzyl alcohol	0.018	U	0.0088	0.018	0.72	mg/Kg-dry	1	7/8/2016 5:52 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0076	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Bis(2-chloroethyl) ether	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0083	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Butyl benzyl phthalate	0.036	U	0.022	0.036	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Carbazole	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Di-n-butyl phthalate	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Dibenzofuran	0.066	J	0.0093	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Hexachlorobenzene	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	7/8/2016 5:52 PM
Hexachloroethane	0.018	U	0.0084	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
N-Nitrosodimethylamine	0.018	U	0.0089	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
N-Nitrosodiphenylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Pentachlorophenol	0.091	U	0.069	0.091	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Phenol	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	7/8/2016 5:52 PM
Surr: 2,4,6-Tribromophenol	96.0			39-132		%Rec	1	7/8/2016 5:52 PM
Surr: 2-Fluorobiphenyl	86.4			44-115		%Rec	1	7/8/2016 5:52 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606593-012	**Matrix:**	Soil
Client Sample ID:	H21-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	75.2			35-115		%Rec	1	7/8/2016 5:52 PM
Surr: Nitrobenzene-d5	98.0			37-122		%Rec	1	7/8/2016 5:52 PM
Surr: Phenol-d5	82.3			33-122		%Rec	1	7/8/2016 5:52 PM
Surr: Terphenyl-d14	85.9			54-127		%Rec	1	7/8/2016 5:52 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.022	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
2-Methylnaphthalene	0.028	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Acenaphthene	0.0028	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Acenaphthylene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Anthracene	0.0040	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Benzo(a)anthracene	0.025	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Benzo(a)pyrene	0.022		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Benzo(b)fluoranthene	0.048	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Benzo(g,h,i)perylene	0.0088		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Benzo(k)fluoranthene	0.010		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Chrysene	0.029	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Dibenzo(a,h)anthracene	0.0027		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Fluoranthene	0.053	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Fluorene	0.0024	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Indeno(1,2,3-cd)pyrene	0.0088	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Naphthalene	0.023		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Phenanthrene	0.035	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Pyrene	0.043	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 7:45 PM
Surr: 2-Fluorobiphenyl	93.3			46-115		%Rec	3	7/22/2016 7:45 PM
Surr: Nitrobenzene-d5	97.8			44-125		%Rec	3	7/22/2016 7:45 PM
Surr: Terphenyl-d14	102			58-133		%Rec	3	7/22/2016 7:45 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.6		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 9:05:00 AM
Project: Camp Hero
Lab ID: 1606593-013 **Matrix:** Soil
Client Sample ID: H21-SB01-11

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0074	U	0.0033	0.0074	0.036	mg/Kg-dry	1	7/13/2016 4:46 AM
Aroclor 1221	0.0074	U	0.0033	0.0074	0.036	mg/Kg-dry	1	7/13/2016 4:46 AM
Aroclor 1232	0.0074	U	0.0050	0.0074	0.036	mg/Kg-dry	1	7/13/2016 4:46 AM
Aroclor 1242	0.0074	U	0.0041	0.0074	0.036	mg/Kg-dry	1	7/13/2016 4:46 AM
Aroclor 1248	0.0074	U	0.0039	0.0074	0.036	mg/Kg-dry	1	7/13/2016 4:46 AM
Aroclor 1254	0.0074	U	0.0047	0.0074	0.036	mg/Kg-dry	1	7/13/2016 4:46 AM
Aroclor 1260	0.0074	U	0.0032	0.0074	0.036	mg/Kg-dry	1	7/13/2016 4:46 AM
Aroclor 1262	0.0074	U	0.0032	0.0074	0.036	mg/Kg-dry	1	7/13/2016 4:46 AM
Aroclor 1268	0.0074	U	0.0027	0.0074	0.036	mg/Kg-dry	1	7/13/2016 4:46 AM
Surr: Tetrachloro-m-xylene	82.1			44-130		%Rec	1	7/13/2016 4:46 AM
Surr: Decachlorobiphenyl	111			60-125		%Rec	1	7/13/2016 4:46 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		54	150	360	mg/Kg-dry	100	7/21/2016 5:38 PM
Antimony	5.0		0.27	0.36	0.73	mg/Kg-dry	1	7/21/2016 3:29 PM
Arsenic	1.1	J	0.53	0.73	1.5	mg/Kg-dry	1	7/21/2016 3:29 PM
Barium	50		0.22	3.6	7.3	mg/Kg-dry	1	7/21/2016 3:29 PM
Beryllium	0.17	J	0.0092	0.036	0.18	mg/Kg-dry	1	7/21/2016 3:29 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/21/2016 3:29 PM
Calcium	540		2.1	7.3	36	mg/Kg-dry	1	7/21/2016 3:29 PM
Chromium	18		0.060	0.29	0.36	mg/Kg-dry	1	7/25/2016 4:10 PM
Cobalt	5.1		0.065	0.18	0.73	mg/Kg-dry	1	7/21/2016 3:29 PM
Copper	33		0.30	0.73	3.6	mg/Kg-dry	1	7/21/2016 3:29 PM
Iron	12,000		23	36	110	mg/Kg-dry	10	7/21/2016 4:01 PM
Lead	3.2	J	0.45	0.73	3.6	mg/Kg-dry	1	7/21/2016 3:29 PM
Magnesium	2,600		25	36	360	mg/Kg-dry	10	7/21/2016 4:01 PM
Manganese	240		1.3	1.8	7.3	mg/Kg-dry	10	7/21/2016 4:01 PM
Nickel	10		0.20	0.73	3.6	mg/Kg-dry	1	7/21/2016 3:29 PM
Potassium	1,900		17	73	150	mg/Kg-dry	10	7/21/2016 4:01 PM
Selenium	1.1	U	0.84	1.1	1.5	mg/Kg-dry	1	7/21/2016 3:29 PM
Silver	0.18	U	0.059	0.18	0.73	mg/Kg-dry	1	7/21/2016 3:29 PM
Sodium	110		1.5	3.6	36	mg/Kg-dry	1	7/21/2016 3:29 PM
Vanadium	25		0.092	0.73	1.8	mg/Kg-dry	1	7/21/2016 3:29 PM
Zinc	22		0.28	0.36	3.6	mg/Kg-dry	1	7/21/2016 3:29 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	JG	0.036	0.037	0.15	mg/Kg-dry	10	7/25/2016 7:27 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
1,2-Dichlorobenzene	0.018	U	0.0080	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
1,4-Dichlorobenzene	0.018	U	0.0059	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 9:05:00 AM
Project: Camp Hero
Lab ID: 1606593-013 **Matrix:** Soil
Client Sample ID: H21-SB01-11

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	UY	0.021	0.037	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
2,4-Dichlorophenol	0.092	U	0.032	0.092	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
2,4-Dimethyl phenol	0.092	U	0.035	0.092	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.92	mg/Kg-dry	1	7/8/2016 6:17 PM
2,4-Dinitrotoluene	0.018	UY	0.016	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
2-Chlorophenol	0.092	U	0.038	0.092	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
2-Methylphenol (o-Cresol)	0.092	U	0.040	0.092	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
2-Nitroaniline	0.018	UY	0.0090	0.018	0.35	mg/Kg-dry	1	7/8/2016 6:17 PM
2-Nitrophenol	0.092	UY	0.046	0.092	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
3,3´-Dichlorobenzidine	0.74	U	0.47	0.74	1.1	mg/Kg-dry	1	7/8/2016 6:17 PM
3-Nitroaniline	0.018	UY	0.013	0.018	0.35	mg/Kg-dry	1	7/8/2016 6:17 PM
3/4-Methylphenol [m/p-Cresol]	0.092	U	0.066	0.092	0.35	mg/Kg-dry	1	7/8/2016 6:17 PM
4,6-Dinitro-2-methylphenol	0.092	UY	0.053	0.092	0.35	mg/Kg-dry	1	7/8/2016 6:17 PM
4-Bromophenyl phenyl ether	0.092	U	0.047	0.092	0.22	mg/Kg-dry	1	7/8/2016 6:17 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
4-Chloroaniline [p-Chloroaniline]	0.092	U	0.028	0.092	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
4-Nitroaniline	0.092	UY	0.027	0.092	0.35	mg/Kg-dry	1	7/8/2016 6:17 PM
4-Nitrophenol	0.37	UY	0.26	0.37	0.92	mg/Kg-dry	1	7/8/2016 6:17 PM
Benzoic acid	0.37	U	0.15	0.37	1.1	mg/Kg-dry	1	7/8/2016 6:17 PM
Benzyl alcohol	0.018	U	0.0089	0.018	0.73	mg/Kg-dry	1	7/8/2016 6:17 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0077	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0084	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.033	0.037	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Carbazole	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Di-n-octyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Dibenzofuran	0.018	U	0.0094	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Diethyl phthalate	0.018	U	0.014	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Hexachlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	7/8/2016 6:17 PM
Hexachloroethane	0.018	U	0.0085	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Isophorone	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
N-Nitrosodimethylamine	0.018	U	0.0090	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
N-Nitrosodiphenylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Nitrobenzene	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Pentachlorophenol	0.092	U	0.069	0.092	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Phenol	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	7/8/2016 6:17 PM
Surr: 2,4,6-Tribromophenol	72.5			39-132		%Rec	1	7/8/2016 6:17 PM
Surr: 2-Fluorobiphenyl	76.3			44-115		%Rec	1	7/8/2016 6:17 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606593-013	**Matrix:**	Soil
Client Sample ID:	H21-SB01-11		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	62.2			35-115		%Rec	1	7/8/2016 6:17 PM
Surr: Nitrobenzene-d5	84.2			37-122		%Rec	1	7/8/2016 6:17 PM
Surr: Phenol-d5	67.1			33-122		%Rec	1	7/8/2016 6:17 PM
Surr: Terphenyl-d14	78.6			54-127		%Rec	1	7/8/2016 6:17 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
2-Methylnaphthalene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Acenaphthene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Acenaphthylene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Anthracene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Benzo(a)anthracene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Benzo(a)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Benzo(b)fluoranthene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Benzo(k)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Chrysene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Fluoranthene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Fluorene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Indeno(1,2,3-cd)pyrene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Naphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Phenanthrene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Pyrene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:13 PM
Surr: 2-Fluorobiphenyl	84.2			46-115		%Rec	3	7/22/2016 8:13 PM
Surr: Nitrobenzene-d5	90.7			44-125		%Rec	3	7/22/2016 8:13 PM
Surr: Terphenyl-d14	91.6			58-133		%Rec	3	7/22/2016 8:13 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606593-014	**Matrix:**	Soil
Client Sample ID:	H21-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: DS**
Aroclor 1016	0.0072	U	0.0033	0.0072	0.036	mg/Kg-dry	1	7/13/2016 5:10 AM
Aroclor 1221	0.0072	U	0.0033	0.0072	0.036	mg/Kg-dry	1	7/13/2016 5:10 AM
Aroclor 1232	0.0072	U	0.0049	0.0072	0.036	mg/Kg-dry	1	7/13/2016 5:10 AM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.036	mg/Kg-dry	1	7/13/2016 5:10 AM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.036	mg/Kg-dry	1	7/13/2016 5:10 AM
Aroclor 1254	0.0072	U	0.0046	0.0072	0.036	mg/Kg-dry	1	7/13/2016 5:10 AM
Aroclor 1260	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/13/2016 5:10 AM
Aroclor 1262	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/13/2016 5:10 AM
Aroclor 1268	0.0072	U	0.0027	0.0072	0.036	mg/Kg-dry	1	7/13/2016 5:10 AM
Surr: Tetrachloro-m-xylene	87.9			44-130		%Rec	1	7/13/2016 5:10 AM
Surr: Decachlorobiphenyl	105			60-125		%Rec	1	7/13/2016 5:10 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	7,100		52	140	350	mg/Kg-dry	100	7/21/2016 5:39 PM
Antimony	1.7		0.26	0.35	0.70	mg/Kg-dry	1	7/21/2016 3:31 PM
Arsenic	1.1	J	0.51	0.70	1.4	mg/Kg-dry	1	7/21/2016 3:31 PM
Barium	12		0.21	3.5	7.0	mg/Kg-dry	1	7/21/2016 3:31 PM
Beryllium	0.035	J	0.0088	0.035	0.17	mg/Kg-dry	1	7/21/2016 3:31 PM
Cadmium	0.037	J	0.023	0.035	0.17	mg/Kg-dry	1	7/21/2016 3:31 PM
Calcium	430		2.0	7.0	35	mg/Kg-dry	1	7/21/2016 3:31 PM
Chromium	8.0		0.057	0.28	0.35	mg/Kg-dry	1	7/25/2016 4:11 PM
Cobalt	1.9		0.063	0.17	0.70	mg/Kg-dry	1	7/21/2016 3:31 PM
Copper	22		0.29	0.70	3.5	mg/Kg-dry	1	7/21/2016 3:31 PM
Iron	9,500		220	350	1,000	mg/Kg-dry	100	7/21/2016 5:39 PM
Lead	4.0		0.43	0.70	3.5	mg/Kg-dry	1	7/21/2016 3:31 PM
Magnesium	750		2.4	3.5	35	mg/Kg-dry	1	7/21/2016 3:31 PM
Manganese	84		0.13	0.17	0.70	mg/Kg-dry	1	7/21/2016 3:31 PM
Nickel	3.9		0.20	0.70	3.5	mg/Kg-dry	1	7/21/2016 3:31 PM
Potassium	330		1.6	7.0	14	mg/Kg-dry	1	7/21/2016 3:31 PM
Selenium	1.0	U	0.81	1.0	1.4	mg/Kg-dry	1	7/21/2016 3:31 PM
Silver	0.17	U	0.057	0.17	0.70	mg/Kg-dry	1	7/21/2016 3:31 PM
Sodium	59		1.4	3.5	35	mg/Kg-dry	1	7/21/2016 3:31 PM
Vanadium	14		0.088	0.70	1.7	mg/Kg-dry	1	7/21/2016 3:31 PM
Zinc	8.7		0.27	0.35	3.5	mg/Kg-dry	1	7/21/2016 3:31 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.051	JG	0.036	0.037	0.15	mg/Kg-dry	10	7/25/2016 7:28 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 8:50:00 AM
Project: Camp Hero
Lab ID: 1606593-014 **Matrix:** Soil
Client Sample ID: H21-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	UY	0.020	0.036	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
2,4-Dichlorophenol	0.090	U	0.031	0.090	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
2,4-Dimethyl phenol	0.090	U	0.034	0.090	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.90	mg/Kg-dry	1	7/8/2016 6:42 PM
2,4-Dinitrotoluene	0.018	UY	0.016	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
2-Chlorophenol	0.090	U	0.038	0.090	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
2-Methylphenol (o-Cresol)	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
2-Nitroaniline	0.018	UY	0.0088	0.018	0.35	mg/Kg-dry	1	7/8/2016 6:42 PM
2-Nitrophenol	0.090	UY	0.045	0.090	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
3,3´-Dichlorobenzidine	0.72	U	0.46	0.72	1.1	mg/Kg-dry	1	7/8/2016 6:42 PM
3-Nitroaniline	0.018	UY	0.013	0.018	0.35	mg/Kg-dry	1	7/8/2016 6:42 PM
3/4-Methylphenol [m/p-Cresol]	0.090	U	0.064	0.090	0.35	mg/Kg-dry	1	7/8/2016 6:42 PM
4,6-Dinitro-2-methylphenol	0.090	UY	0.052	0.090	0.35	mg/Kg-dry	1	7/8/2016 6:42 PM
4-Bromophenyl phenyl ether	0.090	U	0.046	0.090	0.22	mg/Kg-dry	1	7/8/2016 6:42 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
4-Chloroaniline [p-Chloroaniline]	0.090	U	0.027	0.090	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
4-Nitroaniline	0.090	UY	0.026	0.090	0.35	mg/Kg-dry	1	7/8/2016 6:42 PM
4-Nitrophenol	0.36	UY	0.26	0.36	0.90	mg/Kg-dry	1	7/8/2016 6:42 PM
Benzoic acid	0.36	U	0.15	0.36	1.1	mg/Kg-dry	1	7/8/2016 6:42 PM
Benzyl alcohol	0.018	U	0.0087	0.018	0.71	mg/Kg-dry	1	7/8/2016 6:42 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0082	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.054	mg/Kg-dry	1	7/8/2016 6:42 PM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
N-Nitrosodimethylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
N-Nitrosodiphenylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Pentachlorophenol	0.090	U	0.068	0.090	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Phenol	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/8/2016 6:42 PM
Surr: 2,4,6-Tribromophenol	91.1			39-132		%Rec	1	7/8/2016 6:42 PM
Surr: 2-Fluorobiphenyl	85.1			44-115		%Rec	1	7/8/2016 6:42 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606593-014	**Matrix:**	Soil
Client Sample ID:	H21-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	82.0			35-115		%Rec	1	7/8/2016 6:42 PM
Surr: Nitrobenzene-d5	95.2			37-122		%Rec	1	7/8/2016 6:42 PM
Surr: Phenol-d5	85.3			33-122		%Rec	1	7/8/2016 6:42 PM
Surr: Terphenyl-d14	81.8			54-127		%Rec	1	7/8/2016 6:42 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0045	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
2-Methylnaphthalene	0.0053	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Acenaphthene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Acenaphthylene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Anthracene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Benzo(a)anthracene	0.0027	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Benzo(a)pyrene	0.0022		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Benzo(b)fluoranthene	0.0039	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Benzo(k)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Chrysene	0.0023	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Fluoranthene	0.0058	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Fluorene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Indeno(1,2,3-cd)pyrene	0.0022	UQ	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Naphthalene	0.0045		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Phenanthrene	0.0031	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Pyrene	0.0046	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/22/2016 8:41 PM
Surr: 2-Fluorobiphenyl	89.4			46-115		%Rec	3	7/22/2016 8:41 PM
Surr: Nitrobenzene-d5	95.1			44-125		%Rec	3	7/22/2016 8:41 PM
Surr: Terphenyl-d14	96.0			58-133		%Rec	3	7/22/2016 8:41 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.8		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 8:55:00 AM
Project: Camp Hero
Lab ID: 1606593-015 **Matrix:** Soil
Client Sample ID: H21-SB02-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/21/2016 1:42 AM
Aroclor 1221	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/21/2016 1:42 AM
Aroclor 1232	0.0075	U	0.0050	0.0075	0.037	mg/Kg-dry	1	7/21/2016 1:42 AM
Aroclor 1242	0.0075	U	0.0042	0.0075	0.037	mg/Kg-dry	1	7/21/2016 1:42 AM
Aroclor 1248	0.0075	U	0.0039	0.0075	0.037	mg/Kg-dry	1	7/21/2016 1:42 AM
Aroclor 1254	0.0075	U	0.0047	0.0075	0.037	mg/Kg-dry	1	7/21/2016 1:42 AM
Aroclor 1260	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/21/2016 1:42 AM
Aroclor 1262	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/21/2016 1:42 AM
Aroclor 1268	0.0075	U	0.0027	0.0075	0.037	mg/Kg-dry	1	7/21/2016 1:42 AM
Surr: Tetrachloro-m-xylene	70.3			44-130		%Rec	1	7/21/2016 1:42 AM
Surr: Decachlorobiphenyl	78.2			60-125		%Rec	1	7/21/2016 1:42 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,000		55	150	360	mg/Kg-dry	100	7/21/2016 5:50 PM
Antimony	3.2		0.27	0.36	0.73	mg/Kg-dry	1	7/21/2016 3:32 PM
Arsenic	1.4	J	0.53	0.73	1.5	mg/Kg-dry	1	7/21/2016 3:32 PM
Barium	24		0.22	3.6	7.3	mg/Kg-dry	1	7/21/2016 3:32 PM
Beryllium	0.078	J	0.0092	0.036	0.18	mg/Kg-dry	1	7/21/2016 3:32 PM
Cadmium	0.026	J	0.024	0.036	0.18	mg/Kg-dry	1	7/21/2016 3:32 PM
Calcium	680		2.1	7.3	36	mg/Kg-dry	1	7/21/2016 3:32 PM
Chromium	11		0.060	0.29	0.36	mg/Kg-dry	1	7/25/2016 4:12 PM
Cobalt	3.3		0.065	0.18	0.73	mg/Kg-dry	1	7/21/2016 3:32 PM
Copper	28		0.30	0.73	3.6	mg/Kg-dry	1	7/21/2016 3:32 PM
Iron	12,000		230	360	1,100	mg/Kg-dry	100	7/21/2016 5:50 PM
Lead	3.0	J	0.45	0.73	3.6	mg/Kg-dry	1	7/21/2016 3:32 PM
Magnesium	1,300		2.5	3.6	36	mg/Kg-dry	1	7/21/2016 3:32 PM
Manganese	180		0.13	0.18	0.73	mg/Kg-dry	1	7/21/2016 3:32 PM
Nickel	6.6		0.20	0.73	3.6	mg/Kg-dry	1	7/21/2016 3:32 PM
Potassium	670		1.7	7.3	15	mg/Kg-dry	1	7/21/2016 3:32 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/21/2016 3:32 PM
Silver	0.18	U	0.059	0.18	0.73	mg/Kg-dry	1	7/21/2016 3:32 PM
Sodium	81		1.5	3.6	36	mg/Kg-dry	1	7/21/2016 3:32 PM
Vanadium	20		0.092	0.73	1.8	mg/Kg-dry	1	7/21/2016 3:32 PM
Zinc	13		0.28	0.36	3.6	mg/Kg-dry	1	7/21/2016 3:32 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.071	JG	0.035	0.036	0.14	mg/Kg-dry	10	7/25/2016 7:28 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
1,2-Dichlorobenzene	0.019	U	0.0081	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
1,3-Dichlorobenzene	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
1,4-Dichlorobenzene	0.019	U	0.0060	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 8:55:00 AM
Project: Camp Hero
Lab ID: 1606593-015 **Matrix:** Soil
Client Sample ID: H21-SB02-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	UY	0.021	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
2,4-Dichlorophenol	0.094	U	0.032	0.094	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
2,4-Dimethyl phenol	0.094	U	0.036	0.094	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.93	mg/Kg-dry	1	7/8/2016 7:06 PM
2,4-Dinitrotoluene	0.019	UY	0.016	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
2-Chlorophenol	0.094	U	0.039	0.094	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
2-Methylphenol (o-Cresol)	0.094	U	0.040	0.094	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
2-Nitroaniline	0.019	UY	0.0091	0.019	0.36	mg/Kg-dry	1	7/8/2016 7:06 PM
2-Nitrophenol	0.094	UY	0.046	0.094	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
3,3´-Dichlorobenzidine	0.75	U	0.48	0.75	1.1	mg/Kg-dry	1	7/8/2016 7:06 PM
3-Nitroaniline	0.019	UY	0.013	0.019	0.36	mg/Kg-dry	1	7/8/2016 7:06 PM
3/4-Methylphenol [m/p-Cresol]	0.094	U	0.067	0.094	0.36	mg/Kg-dry	1	7/8/2016 7:06 PM
4,6-Dinitro-2-methylphenol	0.094	UY	0.054	0.094	0.36	mg/Kg-dry	1	7/8/2016 7:06 PM
4-Bromophenyl phenyl ether	0.094	U	0.048	0.094	0.23	mg/Kg-dry	1	7/8/2016 7:06 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
4-Chloroaniline [p-Chloroaniline]	0.094	U	0.028	0.094	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
4-Nitroaniline	0.094	UY	0.027	0.094	0.36	mg/Kg-dry	1	7/8/2016 7:06 PM
4-Nitrophenol	0.38	UY	0.27	0.38	0.93	mg/Kg-dry	1	7/8/2016 7:06 PM
Benzoic acid	0.38	U	0.15	0.38	1.1	mg/Kg-dry	1	7/8/2016 7:06 PM
Benzyl alcohol	0.019	U	0.0090	0.019	0.74	mg/Kg-dry	1	7/8/2016 7:06 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0086	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.033	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Butyl benzyl phthalate	0.038	U	0.022	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Di-n-butyl phthalate	0.021	J	0.020	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Dibenzofuran	0.019	U	0.0096	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.056	mg/Kg-dry	1	7/8/2016 7:06 PM
Hexachloroethane	0.019	U	0.0086	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Isophorone	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
N-Nitroso-di-n-propylamine	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
N-Nitrosodimethylamine	0.019	U	0.0091	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
N-Nitrosodiphenylamine	0.019	U	0.0091	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Pentachlorophenol	0.094	U	0.071	0.094	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Phenol	0.094	U	0.040	0.094	0.18	mg/Kg-dry	1	7/8/2016 7:06 PM
Surr: 2,4,6-Tribromophenol	75.4			39-132		%Rec	1	7/8/2016 7:06 PM
Surr: 2-Fluorobiphenyl	72.3			44-115		%Rec	1	7/8/2016 7:06 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:55:00 AM
Project:	Camp Hero		
Lab ID:	1606593-015	**Matrix:**	Soil
Client Sample ID:	H21-SB02-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	61.7			35-115		%Rec	1	7/8/2016 7:06 PM
Surr: Nitrobenzene-d5	78.5			37-122		%Rec	1	7/8/2016 7:06 PM
Surr: Phenol-d5	67.6			33-122		%Rec	1	7/8/2016 7:06 PM
Surr: Terphenyl-d14	75.7			54-127		%Rec	1	7/8/2016 7:06 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
2-Methylnaphthalene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Acenaphthene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Acenaphthylene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Anthracene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Benzo(a)anthracene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Benzo(a)pyrene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Benzo(b)fluoranthene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Benzo(g,h,i)perylene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Benzo(k)fluoranthene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Chrysene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Dibenzo(a,h)anthracene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Fluoranthene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Fluorene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Indeno(1,2,3-cd)pyrene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Naphthalene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Phenanthrene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Pyrene	0.0023	UQ	0.0023	0.0023	0.0023	mg/Kg-dry	3	7/22/2016 9:09 PM
Surr: 2-Fluorobiphenyl	93.2			46-115		%Rec	3	7/22/2016 9:09 PM
Surr: Nitrobenzene-d5	94.3			44-125		%Rec	3	7/22/2016 9:09 PM
Surr: Terphenyl-d14	99.1			58-133		%Rec	3	7/22/2016 9:09 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:30:00 AM
Project:	Camp Hero		
Lab ID:	1606593-016	**Matrix:**	Soil
Client Sample ID:	H21-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	7/21/2016 2:07 AM
Aroclor 1221	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	7/21/2016 2:07 AM
Aroclor 1232	0.0077	U	0.0052	0.0077	0.038	mg/Kg-dry	1	7/21/2016 2:07 AM
Aroclor 1242	0.0077	U	0.0043	0.0077	0.038	mg/Kg-dry	1	7/21/2016 2:07 AM
Aroclor 1248	0.0077	U	0.0040	0.0077	0.038	mg/Kg-dry	1	7/21/2016 2:07 AM
Aroclor 1254	0.0077	U	0.0049	0.0077	0.038	mg/Kg-dry	1	7/21/2016 2:07 AM
Aroclor 1260	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	7/21/2016 2:07 AM
Aroclor 1262	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	7/21/2016 2:07 AM
Aroclor 1268	0.0077	U	0.0028	0.0077	0.038	mg/Kg-dry	1	7/21/2016 2:07 AM
Surr: Tetrachloro-m-xylene	55.6			44-130		%Rec	1	7/21/2016 2:07 AM
Surr: Decachlorobiphenyl	63.9			60-125		%Rec	1	7/21/2016 2:07 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,100		57	150	380	mg/Kg-dry	100	7/21/2016 5:51 PM
Antimony	2.2		0.28	0.38	0.75	mg/Kg-dry	1	7/21/2016 3:33 PM
Arsenic	1.8		0.55	0.75	1.5	mg/Kg-dry	1	7/21/2016 3:33 PM
Barium	22		0.22	3.8	7.5	mg/Kg-dry	1	7/21/2016 3:33 PM
Beryllium	0.11	J	0.0095	0.038	0.19	mg/Kg-dry	1	7/21/2016 3:33 PM
Cadmium	0.099	J	0.025	0.038	0.19	mg/Kg-dry	1	7/21/2016 3:33 PM
Calcium	560		2.2	7.5	38	mg/Kg-dry	1	7/21/2016 3:33 PM
Chromium	11		0.062	0.30	0.38	mg/Kg-dry	1	7/25/2016 4:14 PM
Cobalt	2.3		0.068	0.19	0.75	mg/Kg-dry	1	7/21/2016 3:33 PM
Copper	29		0.31	0.75	3.8	mg/Kg-dry	1	7/21/2016 3:33 PM
Iron	11,000		240	380	1,100	mg/Kg-dry	100	7/21/2016 5:51 PM
Lead	5.2		0.47	0.75	3.8	mg/Kg-dry	1	7/21/2016 3:33 PM
Magnesium	1,300		2.6	3.8	38	mg/Kg-dry	1	7/21/2016 3:33 PM
Manganese	110		0.14	0.19	0.75	mg/Kg-dry	1	7/21/2016 3:33 PM
Nickel	7.0		0.21	0.75	3.8	mg/Kg-dry	1	7/21/2016 3:33 PM
Potassium	680		1.8	7.5	15	mg/Kg-dry	1	7/21/2016 3:33 PM
Selenium	1.1	U	0.88	1.1	1.5	mg/Kg-dry	1	7/21/2016 3:33 PM
Silver	0.19	U	0.062	0.19	0.75	mg/Kg-dry	1	7/21/2016 3:33 PM
Sodium	100		1.5	3.8	38	mg/Kg-dry	1	7/21/2016 3:33 PM
Vanadium	18		0.096	0.75	1.9	mg/Kg-dry	1	7/21/2016 3:33 PM
Zinc	18		0.29	0.38	3.8	mg/Kg-dry	1	7/21/2016 3:33 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.091	JG	0.037	0.038	0.15	mg/Kg-dry	10	7/25/2016 7:34 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
1,2-Dichlorobenzene	0.019	U	0.0082	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
1,3-Dichlorobenzene	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
1,4-Dichlorobenzene	0.019	U	0.0061	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 8:30:00 AM
Project: Camp Hero
Lab ID: 1606593-016 **Matrix:** Soil
Client Sample ID: H21-SS03-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	UY	0.021	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
2,4-Dichlorophenol	0.095	U	0.033	0.095	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
2,4-Dimethyl phenol	0.095	U	0.036	0.095	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.95	mg/Kg-dry	1	7/8/2016 7:31 PM
2,4-Dinitrotoluene	0.019	UY	0.017	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
2-Chlorophenol	0.095	U	0.040	0.095	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
2-Methylphenol (o-Cresol)	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
2-Nitroaniline	0.019	UY	0.0093	0.019	0.37	mg/Kg-dry	1	7/8/2016 7:31 PM
2-Nitrophenol	0.095	UY	0.047	0.095	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
3,3´-Dichlorobenzidine	0.76	U	0.49	0.76	1.1	mg/Kg-dry	1	7/8/2016 7:31 PM
3-Nitroaniline	0.019	UY	0.013	0.019	0.37	mg/Kg-dry	1	7/8/2016 7:31 PM
3/4-Methylphenol [m/p-Cresol]	0.095	U	0.068	0.095	0.37	mg/Kg-dry	1	7/8/2016 7:31 PM
4,6-Dinitro-2-methylphenol	0.095	UY	0.055	0.095	0.37	mg/Kg-dry	1	7/8/2016 7:31 PM
4-Bromophenyl phenyl ether	0.095	U	0.048	0.095	0.23	mg/Kg-dry	1	7/8/2016 7:31 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
4-Chloroaniline [p-Chloroaniline]	0.095	U	0.029	0.095	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
4-Nitroaniline	0.095	UY	0.027	0.095	0.37	mg/Kg-dry	1	7/8/2016 7:31 PM
4-Nitrophenol	0.38	UY	0.27	0.38	0.95	mg/Kg-dry	1	7/8/2016 7:31 PM
Benzoic acid	0.37	J	0.15	0.38	1.1	mg/Kg-dry	1	7/8/2016 7:31 PM
Benzyl alcohol	0.027	J	0.0092	0.019	0.75	mg/Kg-dry	1	7/8/2016 7:31 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0087	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.034	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Butyl benzyl phthalate	0.038	U	0.022	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Di-n-butyl phthalate	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Dibenzofuran	0.011	J	0.0097	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.057	mg/Kg-dry	1	7/8/2016 7:31 PM
Hexachloroethane	0.019	U	0.0088	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Isophorone	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
N-Nitrosodimethylamine	0.019	U	0.0093	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
N-Nitrosodiphenylamine	0.019	U	0.0092	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Pentachlorophenol	0.095	U	0.072	0.095	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Phenol	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	7/8/2016 7:31 PM
Surr: 2,4,6-Tribromophenol	72.0			39-132		%Rec	1	7/8/2016 7:31 PM
Surr: 2-Fluorobiphenyl	65.1			44-115		%Rec	1	7/8/2016 7:31 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:30:00 AM
Project:	Camp Hero		
Lab ID:	1606593-016	**Matrix:**	Soil
Client Sample ID:	H21-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	60.0			35-115		%Rec	1	7/8/2016 7:31 PM
Surr: Nitrobenzene-d5	73.1			37-122		%Rec	1	7/8/2016 7:31 PM
Surr: Phenol-d5	62.8			33-122		%Rec	1	7/8/2016 7:31 PM
Surr: Terphenyl-d14	62.2			54-127		%Rec	1	7/8/2016 7:31 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.013	Q	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/1/2016 8:02 PM
2-Methylnaphthalene	0.016		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/1/2016 8:02 PM
Acenaphthene	0.0057		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/1/2016 8:02 PM
Acenaphthylene	0.0025		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/1/2016 8:02 PM
Anthracene	0.021		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/1/2016 8:02 PM
Benzo(a)anthracene	0.10		0.0077	0.0077	0.0077	mg/Kg-dry	10	8/2/2016 8:26 PM
Benzo(a)pyrene	0.074		0.0077	0.0077	0.0077	mg/Kg-dry	10	8/2/2016 8:26 PM
Benzo(b)fluoranthene	0.12		0.0077	0.0077	0.0077	mg/Kg-dry	10	8/2/2016 8:26 PM
Benzo(g,h,i)perylene	0.0042		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/1/2016 8:02 PM
Benzo(k)fluoranthene	0.039		0.0077	0.0077	0.0077	mg/Kg-dry	10	8/2/2016 8:26 PM
Chrysene	0.071		0.0077	0.0077	0.0077	mg/Kg-dry	10	8/2/2016 8:26 PM
Dibenzo(a,h)anthracene	0.0025		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/1/2016 8:02 PM
Fluoranthene	0.19		0.0077	0.0077	0.0077	mg/Kg-dry	10	8/2/2016 8:26 PM
Fluorene	0.0055		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/1/2016 8:02 PM
Indeno(1,2,3-cd)pyrene	0.022		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/1/2016 8:02 PM
Naphthalene	0.015		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/1/2016 8:02 PM
Phenanthrene	0.082		0.0077	0.0077	0.0077	mg/Kg-dry	10	8/2/2016 8:26 PM
Pyrene	0.15		0.0077	0.0077	0.0077	mg/Kg-dry	10	8/2/2016 8:26 PM
Surr: 2-Fluorobiphenyl	132	Q		46-115		%Rec	1	8/1/2016 8:02 PM
Surr: Nitrobenzene-d5	160	Q		44-125		%Rec	1	8/1/2016 8:02 PM
Surr: Terphenyl-d14	165	Q		58-133		%Rec	1	8/1/2016 8:02 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 8:35:00 AM
Project: Camp Hero
Lab ID: 1606593-017 **Matrix:** Soil
Client Sample ID: H21-SB03-06

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0074	U	0.0034	0.0074	0.037	mg/Kg-dry	1	7/21/2016 2:31 AM
Aroclor 1221	0.0074	U	0.0033	0.0074	0.037	mg/Kg-dry	1	7/21/2016 2:31 AM
Aroclor 1232	0.0074	U	0.0050	0.0074	0.037	mg/Kg-dry	1	7/21/2016 2:31 AM
Aroclor 1242	0.0074	U	0.0042	0.0074	0.037	mg/Kg-dry	1	7/21/2016 2:31 AM
Aroclor 1248	0.0074	U	0.0039	0.0074	0.037	mg/Kg-dry	1	7/21/2016 2:31 AM
Aroclor 1254	0.0074	U	0.0047	0.0074	0.037	mg/Kg-dry	1	7/21/2016 2:31 AM
Aroclor 1260	0.0074	U	0.0033	0.0074	0.037	mg/Kg-dry	1	7/21/2016 2:31 AM
Aroclor 1262	0.0074	U	0.0033	0.0074	0.037	mg/Kg-dry	1	7/21/2016 2:31 AM
Aroclor 1268	0.0074	U	0.0027	0.0074	0.037	mg/Kg-dry	1	7/21/2016 2:31 AM
Surr: Tetrachloro-m-xylene	18.1	Q		44-130		%Rec	1	7/21/2016 2:31 AM
Surr: Decachlorobiphenyl	17.2	Q		60-125		%Rec	1	7/21/2016 2:31 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	1,300		5.3	14	35	mg/Kg-dry	10	7/21/2016 4:02 PM
Antimony	0.86		0.26	0.35	0.70	mg/Kg-dry	1	7/21/2016 3:35 PM
Arsenic	0.70	U	0.51	0.70	1.4	mg/Kg-dry	1	7/21/2016 3:35 PM
Barium	10		0.21	3.5	7.0	mg/Kg-dry	1	7/21/2016 3:35 PM
Beryllium	0.45		0.0089	0.035	0.18	mg/Kg-dry	1	7/21/2016 3:35 PM
Cadmium	0.36		0.023	0.035	0.18	mg/Kg-dry	1	7/21/2016 3:35 PM
Calcium	160		2.1	7.0	35	mg/Kg-dry	1	7/21/2016 3:35 PM
Chromium	0.77		0.058	0.28	0.35	mg/Kg-dry	1	7/25/2016 4:15 PM
Cobalt	0.87		0.063	0.18	0.70	mg/Kg-dry	1	7/21/2016 3:35 PM
Copper	3.9		0.29	0.70	3.5	mg/Kg-dry	1	7/21/2016 3:35 PM
Iron	1,000		2.2	3.5	11	mg/Kg-dry	1	7/21/2016 3:35 PM
Lead	2.1	J	0.44	0.70	3.5	mg/Kg-dry	1	7/21/2016 3:35 PM
Magnesium	170		2.4	3.5	35	mg/Kg-dry	1	7/21/2016 3:35 PM
Manganese	40		0.13	0.18	0.70	mg/Kg-dry	1	7/21/2016 3:35 PM
Nickel	1.8	J	0.20	0.70	3.5	mg/Kg-dry	1	7/21/2016 3:35 PM
Potassium	300		1.6	7.0	14	mg/Kg-dry	1	7/21/2016 3:35 PM
Selenium	1.1	U	0.81	1.1	1.4	mg/Kg-dry	1	7/21/2016 3:35 PM
Silver	0.25	J	0.057	0.18	0.70	mg/Kg-dry	1	7/21/2016 3:35 PM
Sodium	130		1.4	3.5	35	mg/Kg-dry	1	7/21/2016 3:35 PM
Vanadium	2.3		0.089	0.70	1.8	mg/Kg-dry	1	7/21/2016 3:35 PM
Zinc	7.8		0.27	0.35	3.5	mg/Kg-dry	1	7/21/2016 3:35 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.036	UG	0.035	0.036	0.14	mg/Kg-dry	10	7/25/2016 7:35 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
1,2-Dichlorobenzene	0.018	U	0.0079	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
1,4-Dichlorobenzene	0.018	U	0.0059	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 8:35:00 AM
Project: Camp Hero
Lab ID: 1606593-017 **Matrix:** Soil
Client Sample ID: H21-SB03-06

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	UY	0.020	0.037	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
2,4-Dichlorophenol	0.092	U	0.031	0.092	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
2,4-Dimethyl phenol	0.092	U	0.035	0.092	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.91	mg/Kg-dry	1	7/8/2016 7:55 PM
2,4-Dinitrotoluene	0.018	UY	0.016	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
2-Chlorophenol	0.092	U	0.038	0.092	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
2-Methylphenol (o-Cresol)	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
2-Nitroaniline	0.018	UY	0.0089	0.018	0.35	mg/Kg-dry	1	7/8/2016 7:55 PM
2-Nitrophenol	0.092	UY	0.045	0.092	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
3,3´-Dichlorobenzidine	0.73	U	0.47	0.73	1.1	mg/Kg-dry	1	7/8/2016 7:55 PM
3-Nitroaniline	0.018	UY	0.013	0.018	0.35	mg/Kg-dry	1	7/8/2016 7:55 PM
3/4-Methylphenol [m/p-Cresol]	0.092	U	0.065	0.092	0.35	mg/Kg-dry	1	7/8/2016 7:55 PM
4,6-Dinitro-2-methylphenol	0.092	UY	0.053	0.092	0.35	mg/Kg-dry	1	7/8/2016 7:55 PM
4-Bromophenyl phenyl ether	0.092	U	0.047	0.092	0.22	mg/Kg-dry	1	7/8/2016 7:55 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
4-Chloroaniline [p-Chloroaniline]	0.092	U	0.028	0.092	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
4-Nitroaniline	0.092	UY	0.026	0.092	0.35	mg/Kg-dry	1	7/8/2016 7:55 PM
4-Nitrophenol	0.37	UY	0.26	0.37	0.91	mg/Kg-dry	1	7/8/2016 7:55 PM
Benzoic acid	0.76	J	0.15	0.37	1.1	mg/Kg-dry	1	7/8/2016 7:55 PM
Benzyl alcohol	0.018	U	0.0088	0.018	0.72	mg/Kg-dry	1	7/8/2016 7:55 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0084	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.032	0.037	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Carbazole	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Dibenzofuran	0.018	U	0.0093	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Hexachlorobenzene	0.018	U	0.0099	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	7/8/2016 7:55 PM
Hexachloroethane	0.018	U	0.0084	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Isophorone	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
N-Nitrosodimethylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
N-Nitrosodiphenylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Nitrobenzene	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Pentachlorophenol	0.092	U	0.069	0.092	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Phenol	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	7/8/2016 7:55 PM
Surr: 2,4,6-Tribromophenol	65.4			39-132		%Rec	1	7/8/2016 7:55 PM
Surr: 2-Fluorobiphenyl	56.1			44-115		%Rec	1	7/8/2016 7:55 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 8:35:00 AM
Project:	Camp Hero		
Lab ID:	1606593-017	**Matrix:**	Soil
Client Sample ID:	H21-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	44.8			35-115		%Rec	1	7/8/2016 7:55 PM
Surr: Nitrobenzene-d5	58.8			37-122		%Rec	1	7/8/2016 7:55 PM
Surr: Phenol-d5	50.3			33-122		%Rec	1	7/8/2016 7:55 PM
Surr: Terphenyl-d14	55.8			54-127		%Rec	1	7/8/2016 7:55 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.011	Q	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
2-Methylnaphthalene	0.012		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Acenaphthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Acenaphthylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Benzo(a)anthracene	0.013		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Benzo(a)pyrene	0.0031		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Benzo(b)fluoranthene	0.022		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Benzo(g,h,i)perylene	0.0051		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Benzo(k)fluoranthene	0.0053		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Chrysene	0.011		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Fluoranthene	0.025		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Fluorene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Indeno(1,2,3-cd)pyrene	0.0051		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Naphthalene	0.014		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Phenanthrene	0.012		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Pyrene	0.028		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/1/2016 8:29 PM
Surr: 2-Fluorobiphenyl	110			46-115		%Rec	3	8/1/2016 8:29 PM
Surr: Nitrobenzene-d5	151	Q		44-125		%Rec	3	8/1/2016 8:29 PM
Surr: Terphenyl-d14	160	Q		58-133		%Rec	3	8/1/2016 8:29 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 4:00:00 PM
Project: Camp Hero
Lab ID: 1606593-018 **Matrix:** Soil
Client Sample ID: WDS-SB04-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0074	U	0.0033	0.0074	0.036	mg/Kg-dry	1	7/21/2016 2:56 AM
Aroclor 1221	0.0074	U	0.0033	0.0074	0.036	mg/Kg-dry	1	7/21/2016 2:56 AM
Aroclor 1232	0.0074	U	0.0049	0.0074	0.036	mg/Kg-dry	1	7/21/2016 2:56 AM
Aroclor 1242	0.0074	U	0.0041	0.0074	0.036	mg/Kg-dry	1	7/21/2016 2:56 AM
Aroclor 1248	0.0074	U	0.0039	0.0074	0.036	mg/Kg-dry	1	7/21/2016 2:56 AM
Aroclor 1254	0.0074	U	0.0047	0.0074	0.036	mg/Kg-dry	1	7/21/2016 2:56 AM
Aroclor 1260	0.0074	U	0.0032	0.0074	0.036	mg/Kg-dry	1	7/21/2016 2:56 AM
Aroclor 1262	0.0074	U	0.0032	0.0074	0.036	mg/Kg-dry	1	7/21/2016 2:56 AM
Aroclor 1268	0.0074	U	0.0027	0.0074	0.036	mg/Kg-dry	1	7/21/2016 2:56 AM
Surr: Tetrachloro-m-xylene	62.8			44-130		%Rec	1	7/21/2016 2:56 AM
Surr: Decachlorobiphenyl	76.4			60-125		%Rec	1	7/21/2016 2:56 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,200		56	150	380	mg/Kg-dry	100	7/21/2016 5:53 PM
Antimony	2.4		0.28	0.38	0.75	mg/Kg-dry	1	7/21/2016 3:36 PM
Arsenic	1.7		0.54	0.75	1.5	mg/Kg-dry	1	7/21/2016 3:36 PM
Barium	30		0.22	3.8	7.5	mg/Kg-dry	1	7/21/2016 3:36 PM
Beryllium	0.12	J	0.0095	0.038	0.19	mg/Kg-dry	1	7/21/2016 3:36 PM
Cadmium	0.050	J	0.025	0.038	0.19	mg/Kg-dry	1	7/21/2016 3:36 PM
Calcium	470		2.2	7.5	38	mg/Kg-dry	1	7/21/2016 3:36 PM
Chromium	12		0.062	0.30	0.38	mg/Kg-dry	1	7/25/2016 4:16 PM
Cobalt	2.5		0.067	0.19	0.75	mg/Kg-dry	1	7/21/2016 3:36 PM
Copper	27		0.31	0.75	3.8	mg/Kg-dry	1	7/21/2016 3:36 PM
Iron	11,000		230	380	1,100	mg/Kg-dry	100	7/21/2016 5:53 PM
Lead	3.9		0.47	0.75	3.8	mg/Kg-dry	1	7/21/2016 3:36 PM
Magnesium	1,500		2.6	3.8	38	mg/Kg-dry	1	7/21/2016 3:36 PM
Manganese	130		0.14	0.19	0.75	mg/Kg-dry	1	7/21/2016 3:36 PM
Nickel	6.6		0.21	0.75	3.8	mg/Kg-dry	1	7/21/2016 3:36 PM
Potassium	870		1.7	7.5	15	mg/Kg-dry	1	7/21/2016 3:36 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	7/21/2016 3:36 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	7/21/2016 3:36 PM
Sodium	72		1.5	3.8	38	mg/Kg-dry	1	7/21/2016 3:36 PM
Vanadium	18		0.095	0.75	1.9	mg/Kg-dry	1	7/21/2016 3:36 PM
Zinc	17		0.29	0.38	3.8	mg/Kg-dry	1	7/21/2016 3:36 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.11	JG	0.036	0.037	0.15	mg/Kg-dry	10	7/25/2016 7:36 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
1,2-Dichlorobenzene	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
1,3-Dichlorobenzene	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
1,4-Dichlorobenzene	0.019	U	0.0060	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 4:00:00 PM
Project: Camp Hero
Lab ID: 1606593-018 **Matrix:** Soil
Client Sample ID: WDS-SB04-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	UY	0.021	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
2,4-Dichlorophenol	0.093	U	0.032	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
2,4-Dimethyl phenol	0.093	U	0.036	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.93	mg/Kg-dry	1	7/8/2016 8:20 PM
2,4-Dinitrotoluene	0.019	UY	0.016	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
2-Chloronaphthalene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
2-Chlorophenol	0.093	U	0.039	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
2-Methylphenol (o-Cresol)	0.093	U	0.040	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
2-Nitroaniline	0.019	UY	0.0091	0.019	0.36	mg/Kg-dry	1	7/8/2016 8:20 PM
2-Nitrophenol	0.093	UY	0.046	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
3,3´-Dichlorobenzidine	0.74	U	0.48	0.74	1.1	mg/Kg-dry	1	7/8/2016 8:20 PM
3-Nitroaniline	0.019	UY	0.013	0.019	0.36	mg/Kg-dry	1	7/8/2016 8:20 PM
3/4-Methylphenol [m/p-Cresol]	0.093	U	0.066	0.093	0.36	mg/Kg-dry	1	7/8/2016 8:20 PM
4,6-Dinitro-2-methylphenol	0.093	UY	0.054	0.093	0.36	mg/Kg-dry	1	7/8/2016 8:20 PM
4-Bromophenyl phenyl ether	0.093	U	0.047	0.093	0.22	mg/Kg-dry	1	7/8/2016 8:20 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
4-Chloroaniline [p-Chloroaniline]	0.093	U	0.028	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
4-Nitroaniline	0.093	UY	0.027	0.093	0.36	mg/Kg-dry	1	7/8/2016 8:20 PM
4-Nitrophenol	0.37	UY	0.27	0.37	0.93	mg/Kg-dry	1	7/8/2016 8:20 PM
Benzoic acid	0.18	J	0.15	0.37	1.1	mg/Kg-dry	1	7/8/2016 8:20 PM
Benzyl alcohol	0.019	U	0.0090	0.019	0.74	mg/Kg-dry	1	7/8/2016 8:20 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0085	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.033	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Dibenzofuran	0.019	U	0.0095	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Dimethyl phthalate	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.056	mg/Kg-dry	1	7/8/2016 8:20 PM
Hexachloroethane	0.019	U	0.0086	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Isophorone	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
N-Nitroso-di-n-propylamine	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
N-Nitrosodimethylamine	0.019	U	0.0091	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
N-Nitrosodiphenylamine	0.019	U	0.0090	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Pentachlorophenol	0.093	U	0.070	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Phenol	0.093	U	0.040	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:20 PM
Surr: 2,4,6-Tribromophenol	79.0			39-132		%Rec	1	7/8/2016 8:20 PM
Surr: 2-Fluorobiphenyl	68.0			44-115		%Rec	1	7/8/2016 8:20 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 4:00:00 PM
Project:	Camp Hero		
Lab ID:	1606593-018	**Matrix:**	Soil
Client Sample ID:	WDS-SB04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	64.4			35-115		%Rec	1	7/8/2016 8:20 PM
Surr: Nitrobenzene-d5	76.5			37-122		%Rec	1	7/8/2016 8:20 PM
Surr: Phenol-d5	67.1			33-122		%Rec	1	7/8/2016 8:20 PM
Surr: Terphenyl-d14	70.8			54-127		%Rec	1	7/8/2016 8:20 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3050B**			**Analyst: STM**
1-Methylnaphthalene	0.0012	Q	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 8:57 PM
2-Methylnaphthalene	0.0016		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 8:57 PM
Acenaphthene	0.00089		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 8:57 PM
Acenaphthylene	0.0066		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 8:57 PM
Anthracene	0.0075		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 8:57 PM
Benzo(a)anthracene	0.017		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 9:21 PM
Benzo(a)pyrene	0.019		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 9:21 PM
Benzo(b)fluoranthene	0.064		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 9:21 PM
Benzo(g,h,i)perylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 8:57 PM
Benzo(k)fluoranthene	0.023		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 9:21 PM
Chrysene	0.044		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 9:21 PM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 8:57 PM
Fluoranthene	0.10		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 9:21 PM
Fluorene	0.0014		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 8:57 PM
Indeno(1,2,3-cd)pyrene	0.0085		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 8:57 PM
Naphthalene	0.0022		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 8:57 PM
Phenanthrene	0.039		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 9:21 PM
Pyrene	0.098		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/2/2016 9:21 PM
Surr: 2-Fluorobiphenyl	108			46-115		%Rec	1	8/1/2016 8:57 PM
Surr: Nitrobenzene-d5	124			44-125		%Rec	1	8/1/2016 8:57 PM
Surr: Terphenyl-d14	137	Q		58-133		%Rec	1	8/1/2016 8:57 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 4:05:00 PM
Project: Camp Hero
Lab ID: 1606593-019 **Matrix:** Soil
Client Sample ID: WDS-SB05-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0074	U	0.0034	0.0074	0.037	mg/Kg-dry	1	7/21/2016 3:20 AM
Aroclor 1221	0.0074	U	0.0033	0.0074	0.037	mg/Kg-dry	1	7/21/2016 3:20 AM
Aroclor 1232	0.0074	U	0.0050	0.0074	0.037	mg/Kg-dry	1	7/21/2016 3:20 AM
Aroclor 1242	0.0074	U	0.0042	0.0074	0.037	mg/Kg-dry	1	7/21/2016 3:20 AM
Aroclor 1248	0.0074	U	0.0039	0.0074	0.037	mg/Kg-dry	1	7/21/2016 3:20 AM
Aroclor 1254	0.0074	U	0.0047	0.0074	0.037	mg/Kg-dry	1	7/21/2016 3:20 AM
Aroclor 1260	0.0074	U	0.0033	0.0074	0.037	mg/Kg-dry	1	7/21/2016 3:20 AM
Aroclor 1262	0.0074	U	0.0033	0.0074	0.037	mg/Kg-dry	1	7/21/2016 3:20 AM
Aroclor 1268	0.0074	U	0.0027	0.0074	0.037	mg/Kg-dry	1	7/21/2016 3:20 AM
Surr: Tetrachloro-m-xylene	72.3			44-130		%Rec	1	7/21/2016 3:20 AM
Surr: Decachlorobiphenyl	90.3			60-125		%Rec	1	7/21/2016 3:20 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,200		56	150	370	mg/Kg-dry	100	7/21/2016 5:54 PM
Antimony	2.4		0.28	0.37	0.74	mg/Kg-dry	1	7/21/2016 3:37 PM
Arsenic	1.6		0.54	0.74	1.5	mg/Kg-dry	1	7/21/2016 3:37 PM
Barium	25		0.22	3.7	7.4	mg/Kg-dry	1	7/21/2016 3:37 PM
Beryllium	0.069	J	0.0094	0.037	0.19	mg/Kg-dry	1	7/21/2016 3:37 PM
Cadmium	0.13	J	0.024	0.037	0.19	mg/Kg-dry	1	7/21/2016 3:37 PM
Calcium	420		2.2	7.4	37	mg/Kg-dry	1	7/21/2016 3:37 PM
Chromium	13		0.061	0.30	0.37	mg/Kg-dry	1	7/25/2016 4:17 PM
Cobalt	2.4		0.067	0.19	0.74	mg/Kg-dry	1	7/21/2016 3:37 PM
Copper	26		0.31	0.74	3.7	mg/Kg-dry	1	7/21/2016 3:37 PM
Iron	9,600		230	370	1,100	mg/Kg-dry	100	7/21/2016 5:54 PM
Lead	6.0		0.46	0.74	3.7	mg/Kg-dry	1	7/21/2016 3:37 PM
Magnesium	1,100		2.6	3.7	37	mg/Kg-dry	1	7/21/2016 3:37 PM
Manganese	120		0.14	0.19	0.74	mg/Kg-dry	1	7/21/2016 3:37 PM
Nickel	7.7		0.21	0.74	3.7	mg/Kg-dry	1	7/21/2016 3:37 PM
Potassium	590		1.7	7.4	15	mg/Kg-dry	1	7/21/2016 3:37 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/21/2016 3:37 PM
Silver	0.10	J	0.061	0.19	0.74	mg/Kg-dry	1	7/21/2016 3:37 PM
Sodium	70		1.5	3.7	37	mg/Kg-dry	1	7/21/2016 3:37 PM
Vanadium	16		0.094	0.74	1.9	mg/Kg-dry	1	7/21/2016 3:37 PM
Zinc	24		0.29	0.37	3.7	mg/Kg-dry	1	7/21/2016 3:37 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.085	JG	0.036	0.037	0.15	mg/Kg-dry	10	7/25/2016 7:37 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
1,2-Dichlorobenzene	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
1,3-Dichlorobenzene	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
1,4-Dichlorobenzene	0.013	J	0.0060	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM

RTI Laboratories - Analytical Report

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/14/2016 4:05:00 PM
Project: Camp Hero
Lab ID: 1606593-019 **Matrix:** Soil
Client Sample ID: WDS-SB05-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	UY	0.021	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
2,4-Dichlorophenol	0.093	U	0.032	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
2,4-Dimethyl phenol	0.093	U	0.036	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
2,4-Dinitrophenol	0.19	UY	0.11	0.19	0.93	mg/Kg-dry	1	7/8/2016 8:45 PM
2,4-Dinitrotoluene	0.019	UY	0.016	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
2-Chloronaphthalene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
2-Chlorophenol	0.093	U	0.039	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
2-Methylphenol (o-Cresol)	0.093	U	0.040	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
2-Nitroaniline	0.019	UY	0.0090	0.019	0.36	mg/Kg-dry	1	7/8/2016 8:45 PM
2-Nitrophenol	0.093	UY	0.046	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
3,3´-Dichlorobenzidine	0.74	U	0.48	0.74	1.1	mg/Kg-dry	1	7/8/2016 8:45 PM
3-Nitroaniline	0.019	UY	0.013	0.019	0.36	mg/Kg-dry	1	7/8/2016 8:45 PM
3/4-Methylphenol [m/p-Cresol]	0.093	U	0.066	0.093	0.36	mg/Kg-dry	1	7/8/2016 8:45 PM
4,6-Dinitro-2-methylphenol	0.093	UY	0.053	0.093	0.36	mg/Kg-dry	1	7/8/2016 8:45 PM
4-Bromophenyl phenyl ether	0.093	U	0.047	0.093	0.22	mg/Kg-dry	1	7/8/2016 8:45 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
4-Chloroaniline [p-Chloroaniline]	0.093	U	0.028	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
4-Nitroaniline	0.093	UY	0.027	0.093	0.36	mg/Kg-dry	1	7/8/2016 8:45 PM
4-Nitrophenol	0.37	UY	0.27	0.37	0.93	mg/Kg-dry	1	7/8/2016 8:45 PM
Benzoic acid	0.20	JQ	0.15	0.37	1.1	mg/Kg-dry	1	7/8/2016 8:45 PM
Benzyl alcohol	0.019	U	0.0090	0.019	0.74	mg/Kg-dry	1	7/8/2016 8:45 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0085	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.033	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Carbazole	0.016	J	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Dibenzofuran	0.019	U	0.0095	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Dimethyl phthalate	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.056	mg/Kg-dry	1	7/8/2016 8:45 PM
Hexachloroethane	0.019	U	0.0086	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Isophorone	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
N-Nitroso-di-n-propylamine	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
N-Nitrosodimethylamine	0.019	U	0.0090	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
N-Nitrosodiphenylamine	0.019	U	0.0090	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Pentachlorophenol	0.093	U	0.070	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Phenol	0.093	U	0.040	0.093	0.18	mg/Kg-dry	1	7/8/2016 8:45 PM
Surr: 2,4,6-Tribromophenol	69.3			39-132		%Rec	1	7/8/2016 8:45 PM
Surr: 2-Fluorobiphenyl	65.6			44-115		%Rec	1	7/8/2016 8:45 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/14/2016 4:05:00 PM
Project:	Camp Hero		
Lab ID:	1606593-019	**Matrix:**	Soil
Client Sample ID:	WDS-SB05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	61.6			35-115		%Rec	1	7/8/2016 8:45 PM
Surr: Nitrobenzene-d5	71.4			37-122		%Rec	1	7/8/2016 8:45 PM
Surr: Phenol-d5	63.1			33-122		%Rec	1	7/8/2016 8:45 PM
Surr: Terphenyl-d14	63.6			54-127		%Rec	1	7/8/2016 8:45 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0045	Q	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 9:24 PM
2-Methylnaphthalene	0.0062		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 9:24 PM
Acenaphthene	0.013		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 9:24 PM
Acenaphthylene	0.0074		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 9:24 PM
Anthracene	0.056		0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Benzo(a)anthracene	0.24		0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Benzo(a)pyrene	0.18		0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Benzo(b)fluoranthene	0.32		0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Benzo(g,h,i)perylene	0.015	U	0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Benzo(k)fluoranthene	0.13		0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Chrysene	0.20		0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Dibenzo(a,h)anthracene	0.013		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 9:24 PM
Fluoranthene	0.46		0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Fluorene	0.014		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 9:24 PM
Indeno(1,2,3-cd)pyrene	0.045		0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Naphthalene	0.0069		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/1/2016 9:24 PM
Phenanthrene	0.18		0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Pyrene	0.46		0.015	0.015	0.015	mg/Kg-dry	20	8/2/2016 9:48 PM
Surr: 2-Fluorobiphenyl	118	Q		46-115		%Rec	1	8/1/2016 9:24 PM
Surr: Nitrobenzene-d5	135	Q		44-125		%Rec	1	8/1/2016 9:24 PM
Surr: Terphenyl-d14	154	Q		58-133		%Rec	1	8/1/2016 9:24 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - DATES REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606593-001A	WDS-SB01-01	6/14/2016 2:20 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/5/2016 6:11 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 8:51 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/22/2016 5:23 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/28/2016 3:46 PM
1606593-001B	WDS-SB01-01	6/14/2016 2:20 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/12/2016 11:53 PM
1606593-001C	WDS-SB01-01	6/14/2016 2:20 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:22 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:03 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:55 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 4:07 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 3:45 PM
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606593-002A	WDS-SB02-02	6/14/2016 2:35 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/5/2016 6:36 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/21/2016 6:33 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/28/2016 4:41 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/22/2016 11:54 AM	7/28/2016 5:13 PM
1606593-002B	WDS-SB02-02	6/14/2016 2:35 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 12:18 AM
1606593-002C	WDS-SB02-02	6/14/2016 2:35 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:23 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:04 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 4:08 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 3:46 PM
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606593-003A	WDS-SB03-06	6/14/2016 2:40 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/5/2016 7:01 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 3:28 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	8/4/2016 3:11 PM

RTI Laboratories - DATES REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606593-003B	WDS-SB03-06	6/14/2016 2:40 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 1:31 AM
1606593-003C	WDS-SB03-06	6/14/2016 2:40 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:23 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:05 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:28 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 3:47 PM
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606593-004A	WDS-SB06-05	6/14/2016 9:45 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/5/2016 7:25 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	8/3/2016 5:16 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	8/3/2016 5:42 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 3:57 PM
1606593-004B	WDS-SB06-05	6/14/2016 9:45 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 1:55 AM
1606593-004C	WDS-SB06-05	6/14/2016 9:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:57 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:07 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:29 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 3:49 PM
				PMOIST-Percent Moisture		6/20/2016 12:20 PM	6/20/2016 12:20 PM
1606593-005A	WDS-SB07-05	6/14/2016 9:30 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/5/2016 7:50 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 4:26 PM
1606593-005B	WDS-SB07-05	6/14/2016 9:30 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 2:20 AM
1606593-005C	WDS-SB07-05	6/14/2016 9:30 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:57 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:08 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:30 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 3:50 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM

RTI Laboratories - DATES REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606593-006A	WDS-SB14-11	6/14/2016 1:10 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/5/2016 11:59 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 4:55 PM
1606593-006B	WDS-SB14-11	6/14/2016 1:10 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 2:44 AM
1606593-006C	WDS-SB14-11	6/14/2016 1:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:58 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:09 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:56 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:31 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 3:51 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606593-007A	WDS-SB15-13	6/14/2016 11:45 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/5/2016 8:15 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 5:25 PM
1606593-007B	WDS-SB15-13	6/14/2016 11:45 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 3:08 AM
1606593-007C	WDS-SB15-13	6/14/2016 11:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/21/2016 11:19 AM	7/26/2016 4:59 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:11 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:58 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:33 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 3:53 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606593-008A	WDS-SB16-13	6/14/2016 12:15 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/5/2016 8:40 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 5:53 PM
1606593-008B	WDS-SB16-13	6/14/2016 12:15 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 3:33 AM
1606593-008C	WDS-SB16-13	6/14/2016 12:15 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:24 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:12 PM

RTI Laboratories - DATES REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606593-008C	WDS-SB16-13	6/14/2016 12:15 PM	Soil				
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:34 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 3:54 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606593-009A	WDS-SB17-13	6/14/2016 12:50 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/8/2016 5:28 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 6:21 PM
1606593-009B	WDS-SB17-13	6/14/2016 12:50 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 3:57 AM
1606593-009C	WDS-SB17-13	6/14/2016 12:50 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:25 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:13 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:35 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 3:55 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606593-010A	MP-SB01-04	6/14/2016 10:25 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 6:50 PM
1606593-011A	MP-SB01-04 DUP	6/14/2016 10:25 AM	Soil				
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 7:17 PM
1606593-012A	H21-SS01-01	6/14/2016 9:00 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/8/2016 5:52 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 7:45 PM
1606593-012B	H21-SS01-01	6/14/2016 9:00 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 4:21 AM
1606593-012C	H21-SS01-01	6/14/2016 9:00 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:26 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:28 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:37 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 4:08 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM

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Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606593-013A	H21-SB01-11	6/14/2016 9:05 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/8/2016 6:17 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 8:13 PM
1606593-013B	H21-SB01-11	6/14/2016 9:05 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 4:46 AM
1606593-013C	H21-SB01-11	6/14/2016 9:05 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:27 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:29 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 4:01 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:38 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 4:10 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606593-014A	H21-SS02-01	6/14/2016 8:50 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/8/2016 6:42 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 8:41 PM
1606593-014B	H21-SS02-01	6/14/2016 8:50 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/8/2016 10:21 AM	7/13/2016 5:10 AM
1606593-014C	H21-SS02-01	6/14/2016 8:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:28 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:31 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:39 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 4:11 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606593-015A	H21-SB02-10	6/14/2016 8:55 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/8/2016 7:06 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 9:09 PM
1606593-015B	H21-SB02-10	6/14/2016 8:55 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 1:42 AM
1606593-015C	H21-SB02-10	6/14/2016 8:55 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:28 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:32 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:50 PM

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Date Reported: 8/29/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606593-015C	H21-SB02-10	6/14/2016 8:55 AM	Soil				
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 4:12 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606593-016A	H21-SS03-01	6/14/2016 8:30 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/8/2016 7:31 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 4:32 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	8/1/2016 8:02 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	8/2/2016 8:26 PM
1606593-016B	H21-SS03-01	6/14/2016 8:30 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 2:07 AM
1606593-016C	H21-SS03-01	6/14/2016 8:30 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:34 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:33 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:51 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 4:14 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606593-017A	H21-SB03-06	6/14/2016 8:35 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/8/2016 7:55 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	7/22/2016 4:57 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	8/1/2016 8:29 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:59 AM	8/2/2016 8:54 PM
1606593-017B	H21-SB03-06	6/14/2016 8:35 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 2:31 AM
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 11:52 AM
1606593-017C	H21-SB03-06	6/14/2016 8:35 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:35 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:35 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 4:02 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 4:15 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606593-018A	WDS-SB04-01	6/14/2016 4:00 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/22/2016 11:39 AM	7/8/2016 8:20 PM

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Date Reported: 8/29/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606593-018A	WDS-SB04-01	6/14/2016 4:00 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/1/2016 8:57 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/2/2016 9:21 PM
1606593-018B	WDS-SB04-01	6/14/2016 4:00 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 2:56 AM
1606593-018C	WDS-SB04-01	6/14/2016 4:00 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:36 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:36 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:53 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 4:16 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606593-019A	WDS-SB05-01	6/14/2016 4:05 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	7/8/2016 8:45 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/1/2016 9:24 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/2/2016 9:48 PM
1606593-019B	WDS-SB05-01	6/14/2016 4:05 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 3:20 AM
1606593-019C	WDS-SB05-01	6/14/2016 4:05 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:37 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:37 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:54 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 4:17 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM

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Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**MB-40226**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**87145**
Client ID:	**PBS**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1691048**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.16	0.16									U
1,2-Dichlorobenzene	0.16	0.16									U
1,3-Dichlorobenzene	0.16	0.16									U
1,4-Dichlorobenzene	0.16	0.16									U
2,4,5-Trichlorophenol	0.16	0.16									U
2,4,6-Trichlorophenol	0.16	0.16									U
2,4-Dichlorophenol	0.16	0.16									U
2,4-Dimethyl phenol	0.16	0.16									U
2,4-Dinitrophenol	0.81	0.81									UY
2,4-Dinitrotoluene	0.16	0.16									U
2,6-Dinitrotoluene	0.16	0.16									U
2-Chloronaphthalene	0.16	0.16									U
2-Chlorophenol	0.16	0.16									U
2-Methylphenol (o-Cresol)	0.16	0.16									U
2-Nitroaniline	0.31	0.31									UY
2-Nitrophenol	0.16	0.16									U
3,3´-Dichlorobenzidine	0.98	0.98									U
3-Nitroaniline	0.31	0.31									U
3/4-Methylphenol [m/p-Cresol]	0.31	0.31									U
4,6-Dinitro-2-methylphenol	0.31	0.31									UY
4-Bromophenyl phenyl ether	0.20	0.20									U
4-Chloro-3-methylphenol	0.16	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.16	0.16									U
4-Chlorophenyl phenyl ether	0.16	0.16									U
4-Nitroaniline	0.31	0.31									U
4-Nitrophenol	0.81	0.81									U
Benzoic acid	0.98	0.98									UY
Benzyl alcohol	0.65	0.65									U
Bis(2-chloroethoxy) methane	0.16	0.16									U
Bis(2-chloroethyl) ether	0.16	0.16									U

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Date Reported: 8/29/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	MB-40226	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	PBS	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1691048

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.16	0.16									UZ
Bis(2-ethylhexyl) phthalate	0.16	0.16									U
Butyl benzyl phthalate	0.16	0.16									U
Carbazole	0.16	0.16									U
Di-n-butyl phthalate	0.16	0.16									U
Di-n-octyl phthalate	0.16	0.16									U
Dibenzofuran	0.16	0.16									U
Diethyl phthalate	0.16	0.16									U
Dimethyl phthalate	0.16	0.16									U
Hexachlorobenzene	0.16	0.16									U
Hexachlorobutadiene	0.049	0.049									U
Hexachloroethane	0.16	0.16									U
Isophorone	0.16	0.16									U
N-Nitroso-di-n-propylamine	0.16	0.16									U
N-Nitrosodimethylamine	0.16	0.16									U
N-Nitrosodiphenylamine	0.16	0.16									U
Nitrobenzene	0.16	0.16									U
Pentachlorophenol	0.16	0.16									U
Phenol	0.16	0.16									U
Surr: 2,4,6-Tribromophenol	490		817.3		59.5	39	132				
Surr: 2-Fluorobiphenyl	530		817.3		65.2	44	115				
Surr: 2-Fluorophenol	520		817.3		63.6	35	115				
Surr: Nitrobenzene-d5	550		817.3		66.8	37	122				
Surr: Phenol-d5	530		817.3		65.4	33	122				
Surr: Terphenyl-d14	520		817.3		64.0	54	127				

Sample ID:	LCS-40226	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	LCSS	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1711455

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.44	0.16	0.66	0	66.8	34	118				

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Date Reported: 8/29/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**LCS-40226**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**87145**
Client ID:	**LCSS**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1711455**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.43	0.16	0.66	0	65.4	33	117				
1,3-Dichlorobenzene	0.42	0.16	0.66	0	63.7	30	115				
1,4-Dichlorobenzene	0.42	0.16	0.66	0	63.7	31	115				
2,4,5-Trichlorophenol	0.50	0.16	0.66	0	76.9	41	124				
2,4,6-Trichlorophenol	0.51	0.16	0.66	0	77.9	39	126				
2,4-Dichlorophenol	0.50	0.16	0.66	0	75.6	40	122				
2,4-Dimethyl phenol	0.46	0.16	0.66	0	70.2	30	127				
2,4-Dinitrophenol	1.2	0.82	1.6	0	71.3	50	130				Y
2,4-Dinitrotoluene	0.54	0.16	0.66	0	81.9	48	126				
2,6-Dinitrotoluene	0.49	0.16	0.66	0	74.4	46	124				
2-Chloronaphthalene	0.44	0.16	0.66	0	66.7	41	114				
2-Chlorophenol	0.45	0.16	0.66	0	69.2	34	121				
2-Methylphenol (o-Cresol)	0.48	0.16	0.66	0	72.9	32	122				
2-Nitroaniline	0.52	0.32	0.66	0	79.1	44	127				Y
2-Nitrophenol	0.47	0.16	0.66	0	71.7	36	123				
3,3´-Dichlorobenzidine	0.49	0.98	0.66	0	74.9	22	121				J
3-Nitroaniline	0.50	0.32	0.66	0	76.4	33	119				
3/4-Methylphenol [m/p-Cresol]	0.90	0.32	1.3	0	68.4	34	119				
4,6-Dinitro-2-methylphenol	0.55	0.32	0.66	0	84.2	29	132				Y
4-Bromophenyl phenyl ether	0.45	0.20	0.66	0	68.4	46	124				
4-Chloro-3-methylphenol	0.50	0.16	0.66	0	76.1	45	122				
4-Chloroaniline [p-Chloroaniline]	0.48	0.16	0.66	0	72.7	17	106				
4-Chlorophenyl phenyl ether	0.45	0.16	0.66	0	68.8	45	121				
4-Nitroaniline	0.49	0.32	0.66	0	74.3	50	130				
4-Nitrophenol	1.2	0.82	1.6	0	71.3	30	132				
Benzoic acid	0.26	0.98	1.3	0	19.7	40	117				JQY
Benzyl alcohol	0.44	0.65	0.66	0	66.4	29	122				J
Bis(2-chloroethoxy) methane	0.46	0.16	0.66	0	70.6	36	121				
Bis(2-chloroethyl) ether	0.42	0.16	0.66	0	64.7	31	120				
Bis(2-chloroisopropyl)ether	0.43	0.16	0.66	0	65.2	33	131				Z

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Date Reported: 8/29/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	LCS-40226	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	LCSS	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1711455

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.48	0.16	0.66	0	73.2	51	133				
Butyl benzyl phthalate	0.48	0.16	0.66	0	73.8	48	132				
Carbazole	0.46	0.16	0.66	0	70.4	50	123				
Di-n-butyl phthalate	0.45	0.16	0.66	0	67.9	51	128				
Di-n-octyl phthalate	0.51	0.16	0.66	0	77.2	45	140				
Dibenzofuran	0.46	0.16	0.66	0	69.5	44	120				
Diethyl phthalate	0.47	0.16	0.66	0	71.3	50	124				
Dimethyl phthalate	0.45	0.16	0.66	0	68.3	48	124				
Hexachlorobenzene	0.46	0.16	0.66	0	70.6	45	122				
Hexachlorobutadiene	0.44	0.049	0.66	0	67.7	32	123				
Hexachloroethane	0.43	0.16	0.66	0	65.8	28	117				
Isophorone	0.44	0.16	0.66	0	67.0	30	122				
N-Nitroso-di-n-propylamine	0.44	0.16	0.66	0	66.9	50	130				
N-Nitrosodimethylamine	0.44	0.16	0.66	0	66.5	23	120				
N-Nitrosodiphenylamine	0.45	0.16	0.66	0	68.9	38	127				
Nitrobenzene	0.44	0.16	0.66	0	67.7	34	122				
Pentachlorophenol	0.48	0.16	0.66	0	73.1	25	133				
Phenol	0.47	0.16	0.66	0	71.3	34	121				
Surr: 2,4,6-Tribromophenol	630		820.5		76.9	39	132				
Surr: 2-Fluorobiphenyl	580		820.5		70.3	44	115				
Surr: 2-Fluorophenol	590		820.5		71.8	35	115				
Surr: Nitrobenzene-d5	620		820.5		76.2	37	122				
Surr: Phenol-d5	610		820.5		74.9	33	122				
Surr: Terphenyl-d14	610		820.5		74.9	54	127				

Sample ID:	1606593-006AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	WDS-SB14-11MS1	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1711456

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.43	0.16	0.68	0	63.1	34	118				
1,2-Dichlorobenzene	0.42	0.16	0.68	0	61.6	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**1606593-006AMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**87145**
Client ID:	**WDS-SB14-11MS1**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1711456**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.42	0.16	0.68	0	61.5	30	115				
1,4-Dichlorobenzene	0.41	0.16	0.68	0	60.2	31	115				
2,4,5-Trichlorophenol	0.18	0.16	0.68	0	26.2	41	124				Q
2,4,6-Trichlorophenol	0.19	0.16	0.68	0	27.9	39	126				Q
2,4-Dichlorophenol	0.28	0.16	0.68	0	40.8	40	122				
2,4-Dimethyl phenol	0.20	0.16	0.68	0	29.7	30	127				Q
2,4-Dinitrophenol	0.85	0.85	1.7	0	0	50	130				QUY
2,4-Dinitrotoluene	0.48	0.16	0.68	0	70.6	48	126				
2,6-Dinitrotoluene	0.47	0.16	0.68	0	68.5	46	124				
2-Chloronaphthalene	0.44	0.16	0.68	0	64.5	41	114				
2-Chlorophenol	0.31	0.16	0.68	0	45.0	34	121				
2-Methylphenol (o-Cresol)	0.35	0.16	0.68	0	51.0	32	122				
2-Nitroaniline	0.49	0.33	0.68	0	71.5	44	127				Y
2-Nitrophenol	0.21	0.16	0.68	0	30.7	36	123				Q
3,3´-Dichlorobenzidine	1.0	1.0	0.68	0	0	22	121				QU
3-Nitroaniline	0.35	0.33	0.68	0	51.7	33	119				
3/4-Methylphenol [m/p-Cresol]	0.60	0.33	1.4	0	44.3	42	126				
4,6-Dinitro-2-methylphenol	0.11	0.33	0.68	0	15.9	29	132				JQY
4-Bromophenyl phenyl ether	0.45	0.20	0.68	0	66.0	46	124				
4-Chloro-3-methylphenol	0.34	0.16	0.68	0	49.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.15	0.16	0.68	0	21.4	17	106				J
4-Chlorophenyl phenyl ether	0.46	0.16	0.68	0	67.1	45	121				
4-Nitroaniline	0.30	0.33	0.68	0	44.7	50	130				JQ
4-Nitrophenol	0.85	0.85	1.7	0	0	30	132				QU
Benzoic acid	1.0	1.0	1.4	0	0	40	117				QUY
Benzyl alcohol	0.38	0.68	0.68	0	55.8	29	122				J
Bis(2-chloroethoxy) methane	0.45	0.16	0.68	0	65.9	36	121				
Bis(2-chloroethyl) ether	0.42	0.16	0.68	0	61.2	31	120				
Bis(2-chloroisopropyl)ether	0.42	0.16	0.68	0	61.6	33	131				Z
Bis(2-ethylhexyl) phthalate	0.49	0.16	0.68	0	71.7	51	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	1606593-006AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	WDS-SB14-11MS1	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1711456

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.46	0.16	0.68	0	67.8	48	132				
Carbazole	0.43	0.16	0.68	0	63.6	50	123				
Di-n-butyl phthalate	0.44	0.16	0.68	0	64.8	51	128				
Di-n-octyl phthalate	0.51	0.16	0.68	0	74.5	45	140				
Dibenzofuran	0.45	0.16	0.68	0	66.4	44	120				
Diethyl phthalate	0.44	0.16	0.68	0	64.6	50	124				
Dimethyl phthalate	0.43	0.16	0.68	0	62.3	48	124				
Hexachlorobenzene	0.46	0.16	0.68	0	68.1	45	122				
Hexachlorobutadiene	0.44	0.051	0.68	0	64.7	32	123				
Hexachloroethane	0.42	0.16	0.68	0	61.3	28	117				
Isophorone	0.42	0.16	0.68	0	61.6	30	122				
N-Nitroso-di-n-propylamine	0.42	0.16	0.68	0	61.5	50	130				
N-Nitrosodimethylamine	0.37	0.16	0.68	0	54.8	23	120				
N-Nitrosodiphenylamine	0.15	0.16	0.68	0	22.6	38	127				JQ
Nitrobenzene	0.44	0.16	0.68	0	64.0	34	122				
Pentachlorophenol	0.078	0.16	0.68	0	11.5	25	133				JQ
Phenol	0.35	0.16	0.68	0	51.1	34	121				
Surr: 2,4,6-Tribromophenol	250		852.7		28.9	39	132				JQ
Surr: 2-Fluorobiphenyl	600		852.7		70.0	44	115				
Surr: 2-Fluorophenol	360		852.7		42.6	35	115				
Surr: Nitrobenzene-d5	640		852.7		75.2	37	122				
Surr: Phenol-d5	450		852.7		52.6	33	122				
Surr: Terphenyl-d14	630		852.7		74.2	54	127				

Sample ID:	1606593-006AMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87145
Client ID:	WDS-SB14-11SD1	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1711457

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.49	0.16	0.68	0	72.1	34	118	0.43	13.5	25	
1,2-Dichlorobenzene	0.49	0.16	0.68	0	72.0	33	117	0.42	15.7	25	
1,3-Dichlorobenzene	0.49	0.16	0.68	0	71.0	30	115	0.42	14.6	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**1606593-006AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**87145**
Client ID:	**WDS-SB14-11SD1**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1711457**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.48	0.16	0.68	0	69.8	31	115	0.41	14.9	25	
2,4,5-Trichlorophenol	0.21	0.16	0.68	0	31.4	41	124	0.18	18.4	25	Q
2,4,6-Trichlorophenol	0.21	0.16	0.68	0	30.3	39	126	0.19	8.40	25	Q
2,4-Dichlorophenol	0.31	0.16	0.68	0	45.9	40	122	0.28	11.8	25	
2,4-Dimethyl phenol	0.23	0.16	0.68	0	33.2	30	127	0.20	11.3	25	
2,4-Dinitrophenol	0.85	0.85	1.7	0	0	50	130	0	0	25	QUY
2,4-Dinitrotoluene	0.57	0.16	0.68	0	82.9	48	126	0.48	16.2	25	
2,6-Dinitrotoluene	0.55	0.16	0.68	0	81.1	46	124	0.47	17.1	25	
2-Chloronaphthalene	0.50	0.16	0.68	0	72.6	41	114	0.44	12.0	25	
2-Chlorophenol	0.36	0.16	0.68	0	52.8	34	121	0.31	16.1	25	
2-Methylphenol (o-Cresol)	0.42	0.16	0.68	0	61.3	32	122	0.35	18.4	25	
2-Nitroaniline	0.58	0.33	0.68	0	85.3	44	127	0.49	17.8	25	Y
2-Nitrophenol	0.22	0.16	0.68	0	32.9	36	123	0.21	7.08	25	Q
3,3´-Dichlorobenzidine	1.0	1.0	0.68	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.42	0.33	0.68	0	61.1	33	119	0.35	16.7	25	
3/4-Methylphenol [m/p-Cresol]	0.71	0.33	1.4	0	52.0	42	126	0.60	16.2	25	
4,6-Dinitro-2-methylphenol	0.11	0.33	0.68	0	16.3	29	132	0.11	2.64	25	JQY
4-Bromophenyl phenyl ether	0.52	0.20	0.68	0	75.7	46	124	0.45	13.9	25	
4-Chloro-3-methylphenol	0.40	0.16	0.68	0	58.2	45	122	0.34	16.9	25	
4-Chloroaniline [p-Chloroaniline]	0.16	0.16	0.68	0	24.0	17	106	0.15	11.4	25	
4-Chlorophenyl phenyl ether	0.51	0.16	0.68	0	75.2	45	121	0.46	11.5	25	
4-Nitroaniline	0.37	0.33	0.68	0	53.7	50	130	0.30	18.5	25	
4-Nitrophenol	0.27	0.85	1.7	0	15.7	30	132	0	200	25	JRQ
Benzoic acid	1.0	1.0	1.4	0	0	40	117	0	0	25	QUY
Benzyl alcohol	0.46	0.68	0.68	0	67.3	29	122	0.38	18.8	25	J
Bis(2-chloroethoxy) methane	0.52	0.16	0.68	0	75.9	36	121	0.45	14.2	25	
Bis(2-chloroethyl) ether	0.48	0.16	0.68	0	70.8	31	120	0.42	14.8	25	
Bis(2-chloroisopropyl)ether	0.48	0.16	0.68	0	70.7	33	131	0.42	14.0	25	Z
Bis(2-ethylhexyl) phthalate	0.57	0.16	0.68	0	83.4	51	133	0.49	15.2	25	
Butyl benzyl phthalate	0.54	0.16	0.68	0	79.6	48	132	0.46	16.1	25	

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40226

Sample ID: **1606593-006AMSD** Samp Type: **MSD** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/22/2016** RunNo: **87145**
Client ID: **WDS-SB14-11SD1** Batch ID: **40226** TestNo: **SW8270C** **SW3546** Analysis Date: **7/5/2016** SeqNo: **1711457**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.49	0.16	0.68	0	71.8	50	123	0.43	12.3	25	
Di-n-butyl phthalate	0.50	0.16	0.68	0	73.3	51	128	0.44	12.5	25	
Di-n-octyl phthalate	0.58	0.16	0.68	0	85.5	45	140	0.51	14.0	25	
Dibenzofuran	0.51	0.16	0.68	0	74.9	44	120	0.45	12.3	25	
Diethyl phthalate	0.51	0.16	0.68	0	74.3	50	124	0.44	14.1	25	
Dimethyl phthalate	0.49	0.16	0.68	0	71.7	48	124	0.43	14.2	25	
Hexachlorobenzene	0.53	0.16	0.68	0	77.3	45	122	0.46	12.8	25	
Hexachlorobutadiene	0.51	0.051	0.68	0	74.9	32	123	0.44	14.8	25	
Hexachloroethane	0.49	0.16	0.68	0	71.7	28	117	0.42	15.8	25	
Isophorone	0.48	0.16	0.68	0	70.3	30	122	0.42	13.3	25	
N-Nitroso-di-n-propylamine	0.50	0.16	0.68	0	73.2	50	130	0.42	17.6	25	
N-Nitrosodimethylamine	0.44	0.16	0.68	0	64.8	23	120	0.37	16.9	25	
N-Nitrosodiphenylamine	0.17	0.16	0.68	0	24.5	38	127	0.15	8.01	25	Q
Nitrobenzene	0.51	0.16	0.68	0	74.5	34	122	0.44	15.3	25	
Pentachlorophenol	0.078	0.16	0.68	0	11.3	25	133	0.078	1.15	25	JQ
Phenol	0.42	0.16	0.68	0	61.4	34	121	0.35	18.4	25	
Surr: 2,4,6-Tribromophenol	270		854.2		31.8	39	132		0	25	JQ
Surr: 2-Fluorobiphenyl	670		854.2		78.9	44	115		0	25	
Surr: 2-Fluorophenol	410		854.2		48.1	35	115		0	25	
Surr: Nitrobenzene-d5	740		854.2		86.9	37	122		0	25	
Surr: Phenol-d5	540		854.2		62.9	33	122		0	25	
Surr: Terphenyl-d14	730		854.2		85.1	54	127		0	25	

Sample ID: **1606593-006AMS1** Samp Type: **MS** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/22/2016** RunNo: **88307**
Client ID: **WDS-SB14-11MS1** Batch ID: **40226** TestNo: **SW8270C** **SW3546** Analysis Date: **7/5/2016** SeqNo: **1717291**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.43	0.16	0.68	0	63.1	34	118				
1,2-Dichlorobenzene	0.42	0.16	0.68	0	61.6	33	117				
1,3-Dichlorobenzene	0.42	0.16	0.68	0	61.5	30	115				
1,4-Dichlorobenzene	0.41	0.16	0.68	0	60.2	31	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID: **1606593-006AMS1** Samp Type: **MS** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/22/2016** RunNo: **88307**

Client ID: **WDS-SB14-11MS1** Batch ID: **40226** TestNo: **SW8270C** **SW3546** Analysis Date: **7/5/2016** SeqNo: **1717291**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.45	0.0068	0.68	0.0048	65.2	40	119				
2,4,5-Trichlorophenol	0.18	0.16	0.68	0	26.2	41	124				Q
2,4,6-Trichlorophenol	0.19	0.16	0.68	0	27.9	39	126				Q
2,4-Dichlorophenol	0.28	0.16	0.68	0	40.8	40	122				
2,4-Dimethyl phenol	0.20	0.16	0.68	0	29.7	30	127				Q
2,4-Dinitrophenol	0.85	0.85	1.7	0	0	50	130				QUY
2,4-Dinitrotoluene	0.48	0.16	0.68	0	70.6	48	126				
2,6-Dinitrotoluene	0.47	0.16	0.68	0	68.5	46	124				
2-Chloronaphthalene	0.44	0.16	0.68	0	64.5	41	114				
2-Chlorophenol	0.31	0.16	0.68	0	45.0	34	121				
2-Methylnaphthalene	0.45	0.0068	0.68	0.0061	65.0	38	122				
2-Methylphenol (o-Cresol)	0.35	0.16	0.68	0	51.0	32	122				
2-Nitroaniline	0.49	0.33	0.68	0	71.5	44	127				Y
2-Nitrophenol	0.21	0.16	0.68	0	30.7	36	123				Q
3,3´-Dichlorobenzidine	1.0	1.0	0.68	0	0	22	121				QU
3-Nitroaniline	0.35	0.33	0.68	0	51.7	33	119				
3/4-Methylphenol [m/p-Cresol]	0.60	0.33	1.4	0	44.3	42	126				
4,6-Dinitro-2-methylphenol	0.11	0.33	0.68	0	15.9	29	132				JQY
4-Bromophenyl phenyl ether	0.45	0.20	0.68	0	66.0	46	124				
4-Chloro-3-methylphenol	0.34	0.16	0.68	0	49.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.15	0.16	0.68	0	21.4	17	106				J
4-Chlorophenyl phenyl ether	0.46	0.16	0.68	0	67.1	45	121				
4-Nitroaniline	0.31	0.33	0.68	0	44.7	50	130				JQ
4-Nitrophenol	0.85	0.85	1.7	0	0	30	132				QU
Acenaphthene	0.45	0.0068	0.68	0	65.3	40	123				
Acenaphthylene	0.44	0.0068	0.68	0	64.1	32	132				
Anthracene	0.45	0.0068	0.68	0	65.2	47	123				
Benzo(a)anthracene	0.49	0.0068	0.68	0	72.2	49	126				
Benzo(a)pyrene	0.45	0.0068	0.68	0.0027	65.9	45	129				
Benzo(b)fluoranthene	0.45	0.0068	0.68	0.0038	65.1	45	132				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**1606593-006AMS1**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**88307**
Client ID:	**WDS-SB14-11MS1**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1717291**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	0.46	0.0068	0.68	0.0027	66.3	43	134				
Benzo(k)fluoranthene	0.50	0.0068	0.68	0	72.9	47	132				
Benzoic acid	1.0	1.0	1.4	0	0	40	117				QUY
Benzyl alcohol	0.38	0.68	0.68	0	55.8	29	122				J
Bis(2-chloroethoxy) methane	0.45	0.16	0.68	0	65.9	36	121				
Bis(2-chloroethyl) ether	0.42	0.16	0.68	0	61.2	31	120				
Bis(2-chloroisopropyl)ether	0.42	0.16	0.68	0	61.6	33	131				Z
Bis(2-ethylhexyl) phthalate	0.49	0.16	0.68	0	71.7	51	133				
Butyl benzyl phthalate	0.46	0.16	0.68	0	67.8	48	132				
Carbazole	0.43	0.16	0.68	0	63.6	50	123				
Chrysene	0.47	0.0068	0.68	0	68.9	50	124				
Di-n-butyl phthalate	0.44	0.16	0.68	0	64.8	51	128				
Di-n-octyl phthalate	0.51	0.16	0.68	0	74.5	45	140				
Dibenzo(a,h)anthracene	0.45	0.0068	0.68	0.0017	66.0	45	134				
Dibenzofuran	0.45	0.16	0.68	0	66.4	44	120				
Diethyl phthalate	0.44	0.16	0.68	0	64.6	50	124				
Dimethyl phthalate	0.43	0.16	0.68	0	62.3	48	124				
Fluoranthene	0.45	0.0068	0.68	0.0058	65.7	50	127				
Fluorene	0.44	0.0068	0.68	0	64.8	43	125				
Hexachlorobenzene	0.47	0.16	0.68	0	68.1	45	122				
Hexachlorobutadiene	0.44	0.051	0.68	0	64.7	32	123				
Hexachloroethane	0.42	0.16	0.68	0	61.3	28	117				
Indeno(1,2,3-cd)pyrene	0.47	0.0068	0.68	0.0024	68.4	45	133				
Isophorone	0.42	0.16	0.68	0	61.6	30	122				
N-Nitroso-di-n-propylamine	0.42	0.16	0.68	0	61.5	50	130				
N-Nitrosodimethylamine	0.37	0.16	0.68	0	54.8	23	120				
N-Nitrosodiphenylamine	0.15	0.16	0.68	0	22.6	38	127				JQ
Naphthalene	0.44	0.0068	0.68	0.0027	64.2	35	123				
Nitrobenzene	0.44	0.16	0.68	0	64.0	34	122				
Pentachlorophenol	0.078	0.16	0.68	0	11.5	25	133				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	1606593-006AMS1	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	88307
Client ID:	WDS-SB14-11MS1	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1717291

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phenanthrene	0.44	0.0068	0.68	0.0075	63.5	50	121				
Phenol	0.35	0.16	0.68	0	51.1	34	121				
Pyrene	0.46	0.0068	0.68	0.0041	67.3	47	127				
Surr: 2,4,6-Tribromophenol	250		853.2		28.9	39	132				JQ
Surr: 2-Fluorobiphenyl	600		853.2		70.0	44	115				
Surr: 2-Fluorophenol	360		853.2		42.6	35	115				
Surr: Nitrobenzene-d5	640		853.2		75.2	37	122				
Surr: Phenol-d5	450		853.2		52.6	33	122				
Surr: Terphenyl-d14	630		853.2		74.2	54	127				

Sample ID:	1606593-006AMSD1	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	88307
Client ID:	WDS-SB14-11SD1	Batch ID:	40226	TestNo:	SW8270C	SW3546		Analysis Date:	7/5/2016	SeqNo:	1717292

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.49	0.16	0.68	0	72.1	34	118	0.43	13.5	25	
1,2-Dichlorobenzene	0.49	0.16	0.68	0	72.0	33	117	0.42	15.8	25	
1,3-Dichlorobenzene	0.49	0.16	0.68	0	71.0	30	115	0.42	14.6	25	
1,4-Dichlorobenzene	0.48	0.16	0.68	0	69.8	31	115	0.41	15.0	25	
1-Methylnaphthalene	0.51	0.0068	0.68	0.0048	74.4	40	119	0.45	13.2	25	
2,4,5-Trichlorophenol	0.22	0.16	0.68	0	31.4	41	124	0.18	18.4	25	Q
2,4,6-Trichlorophenol	0.21	0.16	0.68	0	30.3	39	126	0.19	8.45	25	Q
2,4-Dichlorophenol	0.31	0.16	0.68	0	45.9	40	122	0.28	11.9	25	
2,4-Dimethyl phenol	0.23	0.16	0.68	0	33.2	30	127	0.20	11.3	25	
2,4-Dinitrophenol	0.85	0.85	1.7	0	0	50	130	0	0	25	QUY
2,4-Dinitrotoluene	0.57	0.16	0.68	0	82.9	48	126	0.48	16.3	25	
2,6-Dinitrotoluene	0.55	0.16	0.68	0	81.1	46	124	0.47	17.1	25	
2-Chloronaphthalene	0.50	0.16	0.68	0	72.6	41	114	0.44	12.0	25	
2-Chlorophenol	0.36	0.16	0.68	0	52.8	34	121	0.31	16.2	25	
2-Methylnaphthalene	0.52	0.0068	0.68	0.0061	74.7	38	122	0.45	13.9	25	
2-Methylphenol (o-Cresol)	0.42	0.16	0.68	0	61.3	32	122	0.35	18.5	25	
2-Nitroaniline	0.58	0.33	0.68	0	85.3	44	127	0.49	17.8	25	Y

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40226

Sample ID: **1606593-006AMSD1** Samp Type: **MSD** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/22/2016** RunNo: **88307**

Client ID: **WDS-SB14-11SD1** Batch ID: **40226** TestNo: **SW8270C** **SW3546** Analysis Date: **7/5/2016** SeqNo: **1717292**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitrophenol	0.22	0.16	0.68	0	32.9	36	123	0.21	7.14	25	Q
3,3´-Dichlorobenzidine	1.0	1.0	0.68	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.42	0.33	0.68	0	61.1	33	119	0.35	16.8	25	
3/4-Methylphenol [m/p-Cresol]	0.71	0.33	1.4	0	52.0	42	126	0.60	16.3	25	
4,6-Dinitro-2-methylphenol	0.11	0.33	0.68	0	16.3	29	132	0.11	2.70	25	JQY
4-Bromophenyl phenyl ether	0.52	0.21	0.68	0	75.7	46	124	0.45	14.0	25	
4-Chloro-3-methylphenol	0.40	0.16	0.68	0	58.2	45	122	0.34	17.0	25	
4-Chloroaniline [p-Chloroaniline]	0.16	0.16	0.68	0	24.0	17	106	0.15	11.4	25	
4-Chlorophenyl phenyl ether	0.51	0.16	0.68	0	75.2	45	121	0.46	11.6	25	
4-Nitroaniline	0.37	0.33	0.68	0	53.7	50	130	0.30	18.5	25	
4-Nitrophenol	0.27	0.85	1.7	0	15.7	30	132	0	200	25	JRQ
Acenaphthene	0.50	0.0068	0.68	0	73.5	40	123	0.45	12.1	25	
Acenaphthylene	0.50	0.0068	0.68	0	72.9	32	132	0.44	13.1	25	
Anthracene	0.50	0.0068	0.68	0	73.4	47	123	0.44	12.1	25	
Benzo(a)anthracene	0.57	0.0068	0.68	0	82.7	49	126	0.49	13.7	25	
Benzo(a)pyrene	0.51	0.0068	0.68	0.0027	74.9	45	129	0.45	12.9	25	
Benzo(b)fluoranthene	0.52	0.0068	0.68	0.0038	75.2	45	132	0.45	14.4	25	
Benzo(g,h,i)perylene	0.51	0.0068	0.68	0.0027	74.1	43	134	0.46	11.3	25	
Benzo(k)fluoranthene	0.56	0.0068	0.68	0	81.9	47	132	0.50	11.8	25	
Benzoic acid	1.0	1.0	1.4	0	0	40	117	0	0	25	QUY
Benzyl alcohol	0.46	0.68	0.68	0	67.3	29	122	0.38	18.9	25	J
Bis(2-chloroethoxy) methane	0.52	0.16	0.68	0	75.9	36	121	0.45	14.2	25	
Bis(2-chloroethyl) ether	0.48	0.16	0.68	0	70.8	31	120	0.42	14.8	25	
Bis(2-chloroisopropyl)ether	0.48	0.16	0.68	0	70.7	33	131	0.42	14.0	25	Z
Bis(2-ethylhexyl) phthalate	0.57	0.16	0.68	0	83.4	51	133	0.49	15.3	25	
Butyl benzyl phthalate	0.54	0.16	0.68	0	79.6	48	132	0.46	16.2	25	
Carbazole	0.49	0.16	0.68	0	71.8	50	123	0.43	12.3	25	
Chrysene	0.54	0.0068	0.68	0	79.6	50	124	0.47	14.6	25	
Di-n-butyl phthalate	0.50	0.16	0.68	0	73.3	51	128	0.44	12.5	25	
Di-n-octyl phthalate	0.58	0.16	0.68	0	85.5	45	140	0.51	14.0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40226**

Sample ID:	**1606593-006AMSD1**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/22/2016**	RunNo:	**88307**
Client ID:	**WDS-SB14-11SD1**	Batch ID:	**40226**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/5/2016**	SeqNo:	**1717292**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dibenzo(a,h)anthracene	0.50	0.0068	0.68	0.0017	73.5	45	134	0.45	10.9	25	
Dibenzofuran	0.51	0.16	0.68	0	74.9	44	120	0.45	12.3	25	
Diethyl phthalate	0.51	0.16	0.68	0	74.3	50	124	0.44	14.2	25	
Dimethyl phthalate	0.49	0.16	0.68	0	71.7	48	124	0.43	14.2	25	
Fluoranthene	0.52	0.0068	0.68	0.0058	75.3	50	127	0.45	13.6	25	
Fluorene	0.50	0.0068	0.68	0	73.7	43	125	0.44	13.1	25	
Hexachlorobenzene	0.53	0.16	0.68	0	77.3	45	122	0.46	12.9	25	
Hexachlorobutadiene	0.51	0.051	0.68	0	74.9	32	123	0.44	14.9	25	
Hexachloroethane	0.49	0.16	0.68	0	71.7	28	117	0.42	15.8	25	
Indeno(1,2,3-cd)pyrene	0.53	0.0068	0.68	0.0024	76.7	45	133	0.47	11.7	25	
Isophorone	0.48	0.16	0.68	0	70.3	30	122	0.42	13.3	25	
N-Nitroso-di-n-propylamine	0.50	0.16	0.68	0	73.2	50	130	0.42	17.7	25	
N-Nitrosodimethylamine	0.44	0.16	0.68	0	64.8	23	120	0.37	16.9	25	
N-Nitrosodiphenylamine	0.17	0.16	0.68	0	24.5	38	127	0.15	8.07	25	Q
Naphthalene	0.50	0.0068	0.68	0.0027	73.2	35	123	0.44	13.2	25	
Nitrobenzene	0.51	0.16	0.68	0	74.5	34	122	0.44	15.4	25	
Pentachlorophenol	0.078	0.16	0.68	0	11.3	25	133	0.078	1.09	25	JQ
Phenanthrene	0.51	0.0068	0.68	0.0075	72.9	50	121	0.44	13.8	25	
Phenol	0.42	0.16	0.68	0	61.4	34	121	0.35	18.4	25	
Pyrene	0.53	0.0068	0.68	0.0041	77.5	47	127	0.46	14.2	25	
Surr: 2,4,6-Tribromophenol	270		854.6		31.8	39	132		0	25	JQ
Surr: 2-Fluorobiphenyl	670		854.6		78.9	44	115		0	25	
Surr: 2-Fluorophenol	410		854.6		48.1	35	115		0	25	
Surr: Nitrobenzene-d5	740		854.6		86.9	37	122		0	25	
Surr: Phenol-d5	540		854.6		62.9	33	122		0	25	
Surr: Terphenyl-d14	730		854.6		85.1	54	127		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	**MB-40228**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**87669**
Client ID:	**PBS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1703112**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00066	0.00066									U
2-Methylnaphthalene	0.00066	0.00066									U
Acenaphthene	0.00066	0.00066									U
Acenaphthylene	0.00066	0.00066									U
Anthracene	0.00066	0.00066									U
Benzo(a)anthracene	0.00066	0.00066									U
Benzo(a)pyrene	0.00066	0.00066									U
Benzo(b)fluoranthene	0.00066	0.00066									U
Benzo(g,h,i)perylene	0.00066	0.00066									U
Benzo(k)fluoranthene	0.00066	0.00066									U
Chrysene	0.00066	0.00066									U
Dibenzo(a,h)anthracene	0.00066	0.00066									U
Fluoranthene	0.00066	0.00066									U
Fluorene	0.00066	0.00066									U
Indeno(1,2,3-cd)pyrene	0.00066	0.00066									U
Naphthalene	0.00066	0.00066									U
Phenanthrene	0.00066	0.00066									U
Pyrene	0.00066	0.00066									U
Surr: 2-Fluorobiphenyl	16		16.48		99.5	46	115				
Surr: Nitrobenzene-d5	17		16.48		105	44	125				
Surr: Terphenyl-d14	18		16.48		108	58	133				

Sample ID:	**LCS-40228**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**87669**
Client ID:	**LCSS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1703113**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00067	0.013	0	95.9	43	111				
2-Methylnaphthalene	0.012	0.00067	0.013	0	87.4	39	114				
Acenaphthene	0.012	0.00067	0.013	0	92.4	44	111				
Acenaphthylene	0.012	0.00067	0.013	0	91.9	39	116				
Anthracene	0.012	0.00067	0.013	0	90.3	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	LCS-40228	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/22/2016	RunNo:	87669
Client ID:	LCSS	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1703113

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.013	0.00067	0.013	0	98.3	54	122				
Benzo(a)pyrene	0.012	0.00067	0.013	0	90.5	50	125				
Benzo(b)fluoranthene	0.012	0.00067	0.013	0	92.6	53	128				
Benzo(g,h,i)perylene	0.012	0.00067	0.013	0	93.9	49	127				
Benzo(k)fluoranthene	0.0095	0.00067	0.013	0	71.9	56	123				
Chrysene	0.012	0.00067	0.013	0	91.9	57	118				
Dibenzo(a,h)anthracene	0.012	0.00067	0.013	0	93.9	50	129				
Fluoranthene	0.013	0.00067	0.013	0	95.3	55	119				
Fluorene	0.012	0.00067	0.013	0	90.4	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00067	0.013	0	93.9	49	130				
Naphthalene	0.011	0.00067	0.013	0	86.4	38	111				
Phenanthrene	0.012	0.00067	0.013	0	93.0	49	113				
Pyrene	0.013	0.00067	0.013	0	94.7	55	117				
Surr: 2-Fluorobiphenyl	18		16.57		107	46	115				
Surr: Nitrobenzene-d5	17		16.57		104	44	125				
Surr: Terphenyl-d14	20		16.57		118	58	133				

Sample ID:	1606512-012AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87825
Client ID:	ZZZZZZ	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1707066

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.033	0.00087	0.017	0.0045	168	44	111				Q
Acenaphthylene	0.047	0.00087	0.017	0.0050	245	39	116				JQ
Anthracene	0.063	0.00087	0.017	0.043	117	50	114				JQ
Benzo(a)anthracene	0.19	0.00087	0.017	0.045	859	54	122				JQ
Benzo(a)pyrene	0.18	0.00087	0.017	0.041	800	50	125				JQ
Benzo(b)fluoranthene	0.29	0.00087	0.017	0.066	1,290	53	128				JQ
Benzo(g,h,i)perylene	0.060	0.00087	0.017	0.020	233	49	127				JQ
Benzo(k)fluoranthene	0.064	0.00087	0.017	0.025	221	56	123				JQ
Chrysene	0.18	0.00087	0.017	0.044	808	57	118				JQ
Dibenzo(a,h)anthracene	0.027	0.00087	0.017	0.0012	149	50	129				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40228

Sample ID:	1606512-012AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87825
Client ID:	ZZZZZZ	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1707066

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Fluoranthene	0.33	0.00087	0.017	0.089	1,420	55	119				JQ
Fluorene	0.037	0.00087	0.017	0.0048	189	47	114				Q
Indeno(1,2,3-cd)pyrene	0.061	0.00087	0.017	0.019	246	49	130				JQ
Phenanthrene	0.19	0.00087	0.017	0.042	846	49	113				JQ
Pyrene	0.30	0.00087	0.017	0.075	1,280	55	117				JQ
Surr: 2-Fluorobiphenyl	22		21.54		103	46	115				
Surr: Nitrobenzene-d5	25		21.54		114	44	125				
Surr: Terphenyl-d14	26		21.54		123	58	133				

Sample ID:	1606512-012AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/22/2016	RunNo:	87825
Client ID:	ZZZZZZ	Batch ID:	40228	TestNo:	SW8270C	SW3550C		Analysis Date:	7/21/2016	SeqNo:	1707067

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.022	0.00088	0.017	0.0045	103	44	111	0.033	39.3	25	R
Acenaphthylene	0.027	0.00088	0.017	0.0050	129	39	116	0.047	52.9	25	RQ
Anthracene	0.030	0.00088	0.017	0.043	-74.8	50	114	0.063	70.8	25	RQ
Benzo(a)anthracene	0.062	0.00088	0.017	0.045	102	54	122	0.19	102	25	JR
Benzo(a)pyrene	0.057	0.00088	0.017	0.041	93.7	50	125	0.18	103	25	JR
Benzo(b)fluoranthene	0.076	0.00088	0.017	0.066	57.6	53	128	0.29	117	25	JR
Benzo(g,h,i)perylene	0.022	0.00088	0.017	0.020	14.2	49	127	0.060	91.2	25	RQ
Benzo(k)fluoranthene	0.044	0.00088	0.017	0.025	108	56	123	0.064	35.5	25	JR
Chrysene	0.058	0.00088	0.017	0.044	78.3	57	118	0.18	104	25	JR
Dibenzo(a,h)anthracene	0.015	0.00088	0.017	0.0012	80.7	50	129	0.027	55.4	25	R
Fluoranthene	0.10	0.00088	0.017	0.089	81.8	55	119	0.33	106	25	JR
Fluorene	0.022	0.00088	0.017	0.0048	99.2	47	114	0.037	51.3	25	R
Indeno(1,2,3-cd)pyrene	0.024	0.00088	0.017	0.019	27.8	49	130	0.061	87.6	25	RQ
Phenanthrene	0.048	0.00088	0.017	0.042	33.7	49	113	0.19	119	25	JRQ
Pyrene	0.093	0.00088	0.017	0.075	103	55	117	0.30	104	25	JR
Surr: 2-Fluorobiphenyl	24		21.78		112	46	115		0	25	
Surr: Nitrobenzene-d5	28		21.78		127	44	125		0	25	Q
Surr: Terphenyl-d14	29		21.78		132	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	**MB-1-40228**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**88044**
Client ID:	**PBS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1711881**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.00066	0.00066									U
Acenaphthylene	0.00066	0.00066									U
Anthracene	0.00066	0.00066									U
Benzo(a)anthracene	0.00066	0.00066									U
Benzo(a)pyrene	0.00066	0.00066									U
Benzo(b)fluoranthene	0.00066	0.00066									U
Benzo(g,h,i)perylene	0.00066	0.00066									U
Benzo(k)fluoranthene	0.00066	0.00066									U
Chrysene	0.00066	0.00066									U
Dibenzo(a,h)anthracene	0.00066	0.00066									U
Fluoranthene	0.00066	0.00066									U
Fluorene	0.00066	0.00066									U
Indeno(1,2,3-cd)pyrene	0.00066	0.00066									U
Phenanthrene	0.00066	0.00066									U
Pyrene	0.00066	0.00066									U
Surr: 2-Fluorobiphenyl	16		16.48		99.5	46	115				
Surr: Nitrobenzene-d5	17		16.48		105	44	125				
Surr: Terphenyl-d14	18		16.48		108	58	133				

Sample ID:	**LCS-1-40228**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**88044**
Client ID:	**LCSS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1711882**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.012	0.00067	0.013	0	92.4	44	111				
Acenaphthylene	0.012	0.00067	0.013	0	91.9	39	116				
Anthracene	0.012	0.00067	0.013	0	90.3	50	114				
Benzo(a)anthracene	0.013	0.00067	0.013	0	98.3	54	122				
Benzo(a)pyrene	0.012	0.00067	0.013	0	90.5	50	125				
Benzo(b)fluoranthene	0.012	0.00067	0.013	0	92.6	53	128				
Benzo(g,h,i)perylene	0.012	0.00067	0.013	0	93.9	49	127				
Benzo(k)fluoranthene	0.0095	0.00067	0.013	0	71.9	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40228**

Sample ID:	**LCS-1-40228**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/22/2016**	RunNo:	**88044**
Client ID:	**LCSS**	Batch ID:	**40228**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/21/2016**	SeqNo:	**1711882**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.012	0.00067	0.013	0	91.9	57	118				
Dibenzo(a,h)anthracene	0.012	0.00067	0.013	0	93.9	50	129				
Fluoranthene	0.013	0.00067	0.013	0	95.3	55	119				
Fluorene	0.012	0.00067	0.013	0	90.4	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00067	0.013	0	93.9	49	130				
Phenanthrene	0.012	0.00067	0.013	0	93.0	49	113				
Pyrene	0.013	0.00067	0.013	0	94.7	55	117				
Surr: 2-Fluorobiphenyl	18		16.57		107	46	115				
Surr: Nitrobenzene-d5	17		16.57		104	44	125				
Surr: Terphenyl-d14	20		16.57		118	58	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	MB-40244	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	PBS	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1704980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.16	0.16									U
1,2-Dichlorobenzene	0.16	0.16									U
1,3-Dichlorobenzene	0.16	0.16									U
1,4-Dichlorobenzene	0.16	0.16									U
2,4,5-Trichlorophenol	0.16	0.16									U
2,4,6-Trichlorophenol	0.16	0.16									UY
2,4-Dichlorophenol	0.16	0.16									U
2,4-Dimethyl phenol	0.16	0.16									U
2,4-Dinitrophenol	0.82	0.82									UY
2,4-Dinitrotoluene	0.16	0.16									UY
2,6-Dinitrotoluene	0.16	0.16									U
2-Chloronaphthalene	0.16	0.16									U
2-Chlorophenol	0.16	0.16									U
2-Methylphenol (o-Cresol)	0.16	0.16									U
2-Nitroaniline	0.32	0.32									UY
2-Nitrophenol	0.16	0.16									UY
3,3´-Dichlorobenzidine	0.99	0.99									U
3-Nitroaniline	0.32	0.32									UY
3/4-Methylphenol [m/p-Cresol]	0.32	0.32									U
4,6-Dinitro-2-methylphenol	0.32	0.32									UY
4-Bromophenyl phenyl ether	0.20	0.20									U
4-Chloro-3-methylphenol	0.16	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.16	0.16									U
4-Chlorophenyl phenyl ether	0.16	0.16									U
4-Nitroaniline	0.32	0.32									UY
4-Nitrophenol	0.82	0.82									UY
Benzoic acid	0.99	0.99									U
Benzyl alcohol	0.66	0.66									U
Bis(2-chloroethoxy) methane	0.16	0.16									U
Bis(2-chloroethyl) ether	0.16	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**MB-40244**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**PBS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1704980**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.16	0.16									UZ
Bis(2-ethylhexyl) phthalate	0.16	0.16									U
Butyl benzyl phthalate	0.16	0.16									U
Carbazole	0.16	0.16									U
Di-n-butyl phthalate	0.16	0.16									U
Di-n-octyl phthalate	0.16	0.16									U
Dibenzofuran	0.16	0.16									U
Diethyl phthalate	0.16	0.16									U
Dimethyl phthalate	0.16	0.16									U
Hexachlorobenzene	0.16	0.16									U
Hexachlorobutadiene	0.050	0.050									U
Hexachloroethane	0.16	0.16									U
Isophorone	0.16	0.16									U
N-Nitroso-di-n-propylamine	0.16	0.16									U
N-Nitrosodimethylamine	0.16	0.16									U
N-Nitrosodiphenylamine	0.16	0.16									U
Nitrobenzene	0.16	0.16									U
Pentachlorophenol	0.16	0.16									U
Phenol	0.16	0.16									U
Surr: 2,4,6-Tribromophenol	670		828.1		81.4	39	132				
Surr: 2-Fluorobiphenyl	720		828.1		87.4	44	115				
Surr: 2-Fluorophenol	720		828.1		86.6	35	115				
Surr: Nitrobenzene-d5	790		828.1		95.8	37	122				
Surr: Phenol-d5	750		828.1		90.5	33	122				
Surr: Terphenyl-d14	710		828.1		85.2	54	127				

Sample ID:	**LCS-40244**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**LCSS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711446**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.52	0.16	0.65	0	80.2	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**LCS-40244**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**LCSS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711446**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.50	0.16	0.65	0	76.1	33	117				
1,3-Dichlorobenzene	0.49	0.16	0.65	0	75.4	30	115				
1,4-Dichlorobenzene	0.49	0.16	0.65	0	74.5	31	115				
2,4,5-Trichlorophenol	0.60	0.16	0.65	0	91.6	41	124				
2,4,6-Trichlorophenol	0.63	0.16	0.65	0	96.5	39	126				Y
2,4-Dichlorophenol	0.60	0.16	0.65	0	91.9	40	122				
2,4-Dimethyl phenol	0.54	0.16	0.65	0	82.9	30	127				
2,4-Dinitrophenol	1.7	0.81	1.6	0	103	50	130				JY
2,4-Dinitrotoluene	0.65	0.16	0.65	0	99.2	48	126				Y
2,6-Dinitrotoluene	0.58	0.16	0.65	0	88.6	46	124				
2-Chloronaphthalene	0.52	0.16	0.65	0	79.6	41	114				
2-Chlorophenol	0.52	0.16	0.65	0	80.3	34	121				
2-Methylphenol (o-Cresol)	0.55	0.16	0.65	0	84.4	32	122				
2-Nitroaniline	0.64	0.31	0.65	0	98.5	44	127				Y
2-Nitrophenol	0.61	0.16	0.65	0	93.9	36	123				Y
3,3´-Dichlorobenzidine	0.56	0.98	0.65	0	85.6	22	121				J
3-Nitroaniline	0.62	0.31	0.65	0	95.6	33	119				Y
3/4-Methylphenol [m/p-Cresol]	1.1	0.31	1.3	0	87.7	34	119				
4,6-Dinitro-2-methylphenol	0.72	0.31	0.65	0	110	29	132				Y
4-Bromophenyl phenyl ether	0.54	0.20	0.65	0	82.9	46	124				
4-Chloro-3-methylphenol	0.60	0.16	0.65	0	91.1	45	122				
4-Chloroaniline [p-Chloroaniline]	0.56	0.16	0.65	0	86.4	17	106				
4-Chlorophenyl phenyl ether	0.55	0.16	0.65	0	84.0	45	121				
4-Nitroaniline	0.60	0.31	0.65	0	92.3	50	130				Y
4-Nitrophenol	1.2	0.81	1.6	0	72.1	30	132				Y
Benzoic acid	0.98	0.98	1.3	0	0	40	117				QU
Benzyl alcohol	0.51	0.65	0.65	0	77.8	29	122				J
Bis(2-chloroethoxy) methane	0.56	0.16	0.65	0	85.3	36	121				
Bis(2-chloroethyl) ether	0.50	0.16	0.65	0	76.0	31	120				
Bis(2-chloroisopropyl)ether	0.48	0.16	0.65	0	73.7	33	131				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	LCS-40244	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	LCSS	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711446

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.52	0.16	0.65	0	79.2	51	133				
Butyl benzyl phthalate	0.54	0.16	0.65	0	82.9	48	132				
Carbazole	0.55	0.16	0.65	0	84.2	50	123				
Di-n-butyl phthalate	0.51	0.16	0.65	0	77.5	51	128				
Di-n-octyl phthalate	0.56	0.16	0.65	0	85.4	45	140				
Dibenzofuran	0.54	0.16	0.65	0	82.4	44	120				
Diethyl phthalate	0.54	0.16	0.65	0	82.0	50	124				
Dimethyl phthalate	0.52	0.16	0.65	0	79.9	48	124				
Hexachlorobenzene	0.55	0.16	0.65	0	83.7	45	122				
Hexachlorobutadiene	0.54	0.049	0.65	0	82.7	32	123				
Hexachloroethane	0.51	0.16	0.65	0	77.9	28	117				
Isophorone	0.53	0.16	0.65	0	80.6	30	122				
N-Nitroso-di-n-propylamine	0.56	0.16	0.65	0	85.1	50	130				
N-Nitrosodimethylamine	0.52	0.16	0.65	0	79.2	23	120				
N-Nitrosodiphenylamine	0.53	0.16	0.65	0	81.4	38	127				
Nitrobenzene	0.55	0.16	0.65	0	83.7	34	122				
Pentachlorophenol	0.33	0.16	0.65	0	50.0	25	133				
Phenol	0.60	0.16	0.65	0	91.7	34	121				
Surr: 2,4,6-Tribromophenol	720		816.5		88.7	39	132				
Surr: 2-Fluorobiphenyl	710		816.5		86.7	44	115				
Surr: 2-Fluorophenol	720		816.5		88.7	35	115				
Surr: Nitrobenzene-d5	810		816.5		98.7	37	122				
Surr: Phenol-d5	740		816.5		90.8	33	122				
Surr: Terphenyl-d14	720		816.5		88.6	54	127				

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	ZZZZZZ	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711447

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.54	0.20	0.82	0	65.6	34	118				
1,2-Dichlorobenzene	0.51	0.20	0.82	0	61.8	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**1606601-008AMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**ZZZZZZ**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711447**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.50	0.20	0.82	0	61.6	30	115				
1,4-Dichlorobenzene	0.49	0.20	0.82	0	60.2	31	115				
2,4,5-Trichlorophenol	0.69	0.20	0.82	0	84.7	41	124				
2,4,6-Trichlorophenol	0.72	0.20	0.82	0	88.4	39	126				Y
2,4-Dichlorophenol	0.64	0.20	0.82	0	78.6	40	122				
2,4-Dimethyl phenol	0.49	0.20	0.82	0	60.3	30	127				
2,4-Dinitrophenol	2.2	1.0	2.0	0	107	50	130				JY
2,4-Dinitrotoluene	0.71	0.20	0.82	0	86.1	48	126				Y
2,6-Dinitrotoluene	0.62	0.20	0.82	0	75.8	46	124				
2-Chloronaphthalene	0.56	0.20	0.82	0	67.9	41	114				
2-Chlorophenol	0.55	0.20	0.82	0	66.8	34	121				
2-Methylphenol (o-Cresol)	0.56	0.20	0.82	0	67.8	32	122				
2-Nitroaniline	0.70	0.39	0.82	0	85.2	44	127				Y
2-Nitrophenol	0.67	0.20	0.82	0	82.1	36	123				Y
3,3´-Dichlorobenzidine	1.2	1.2	0.82	0	0	22	121				QU
3-Nitroaniline	0.34	0.39	0.82	0	41.2	33	119				JY
3/4-Methylphenol [m/p-Cresol]	1.2	0.39	1.6	0	72.0	42	126				
4,6-Dinitro-2-methylphenol	0.91	0.39	0.82	0	112	29	132				Y
4-Bromophenyl phenyl ether	0.58	0.25	0.82	0	71.2	46	124				
4-Chloro-3-methylphenol	0.64	0.20	0.82	0	78.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.21	0.20	0.82	0	25.1	17	106				
4-Chlorophenyl phenyl ether	0.61	0.20	0.82	0	74.0	45	121				
4-Nitroaniline	0.33	0.39	0.82	0	40.4	50	130				JQY
4-Nitrophenol	1.6	1.0	2.0	0	77.3	30	132				Y
Benzoic acid	1.9	1.2	1.6	0	117	40	117				Q
Benzyl alcohol	0.53	0.81	0.82	0	64.8	29	122				J
Bis(2-chloroethoxy) methane	0.57	0.20	0.82	0	70.1	36	121				
Bis(2-chloroethyl) ether	0.52	0.20	0.82	0	63.3	31	120				
Bis(2-chloroisopropyl)ether	0.50	0.20	0.82	0	61.6	33	131				Z
Bis(2-ethylhexyl) phthalate	0.61	0.20	0.82	0	75.0	51	133				

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40244

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	ZZZZZZ	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711447

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.61	0.20	0.82	0	74.4	48	132				
Carbazole	0.61	0.20	0.82	0	74.5	50	123				
Di-n-butyl phthalate	0.56	0.20	0.82	0	68.4	51	128				
Di-n-octyl phthalate	0.65	0.20	0.82	0	79.5	45	140				
Dibenzofuran	0.59	0.20	0.82	0	71.7	44	120				
Diethyl phthalate	0.58	0.20	0.82	0	70.9	50	124				
Dimethyl phthalate	0.56	0.20	0.82	0	68.8	48	124				
Hexachlorobenzene	0.58	0.20	0.82	0	71.0	45	122				
Hexachlorobutadiene	0.57	0.061	0.82	0	70.1	32	123				
Hexachloroethane	0.50	0.20	0.82	0	60.7	28	117				
Isophorone	0.55	0.20	0.82	0	67.6	30	122				
N-Nitroso-di-n-propylamine	0.59	0.20	0.82	0	72.2	50	130				
N-Nitrosodimethylamine	0.52	0.20	0.82	0	63.8	23	120				
N-Nitrosodiphenylamine	0.56	0.20	0.82	0	68.6	38	127				
Nitrobenzene	0.57	0.20	0.82	0	69.1	34	122				
Pentachlorophenol	0.68	0.20	0.82	0	83.3	25	133				
Phenol	0.59	0.20	0.82	0	72.0	34	121				
Surr: 2,4,6-Tribromophenol	850		1,023		83.2	39	132				
Surr: 2-Fluorobiphenyl	740		1,023		72.3	44	115				
Surr: 2-Fluorophenol	710		1,023		69.2	35	115				
Surr: Nitrobenzene-d5	800		1,023		78.1	37	122				
Surr: Phenol-d5	730		1,023		71.6	33	122				
Surr: Terphenyl-d14	760		1,023		74.2	54	127				

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	ZZZZZZ	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711448

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.34	0.20	0.81	0	42.1	34	118	0.54	44.2	25	R
1,2-Dichlorobenzene	0.32	0.20	0.81	0	39.3	33	117	0.51	45.0	25	R
1,3-Dichlorobenzene	0.31	0.20	0.81	0	38.3	30	115	0.50	47.1	25	R

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**1606601-008AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**ZZZZZZ**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711448**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.31	0.20	0.81	0	38.3	31	115	0.49	45.1	25	R
2,4,5-Trichlorophenol	0.42	0.20	0.81	0	51.4	41	124	0.69	49.5	25	R
2,4,6-Trichlorophenol	0.42	0.20	0.81	0	52.2	39	126	0.72	52.1	25	RY
2,4-Dichlorophenol	0.39	0.20	0.81	0	48.1	40	122	0.64	48.8	25	R
2,4-Dimethyl phenol	0.28	0.20	0.81	0	34.8	30	127	0.49	54.3	25	R
2,4-Dinitrophenol	1.4	1.0	2.0	0	70.6	50	130	2.2	41.9	25	RY
2,4-Dinitrotoluene	0.41	0.20	0.81	0	50.5	48	126	0.71	52.7	25	RY
2,6-Dinitrotoluene	0.36	0.20	0.81	0	44.4	46	124	0.62	52.9	25	RQ
2-Chloronaphthalene	0.34	0.20	0.81	0	42.0	41	114	0.56	47.6	25	R
2-Chlorophenol	0.33	0.20	0.81	0	40.6	34	121	0.55	49.5	25	R
2-Methylphenol (o-Cresol)	0.34	0.20	0.81	0	41.4	32	122	0.56	49.0	25	R
2-Nitroaniline	0.41	0.39	0.81	0	50.2	44	127	0.70	52.2	25	RY
2-Nitrophenol	0.42	0.20	0.81	0	51.9	36	123	0.67	45.7	25	RY
3,3´-Dichlorobenzidine	1.2	1.2	0.81	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.24	0.39	0.81	0	29.6	33	119	0.34	33.3	25	JRQY
3/4-Methylphenol [m/p-Cresol]	0.68	0.39	1.6	0	41.6	42	126	1.2	54.2	25	RQ
4,6-Dinitro-2-methylphenol	0.54	0.39	0.81	0	66.4	29	132	0.91	51.4	25	RY
4-Bromophenyl phenyl ether	0.36	0.24	0.81	0	44.5	46	124	0.58	46.7	25	RQ
4-Chloro-3-methylphenol	0.38	0.20	0.81	0	47.3	45	122	0.64	49.8	25	R
4-Chloroaniline [p-Chloroaniline]	0.15	0.20	0.81	0	18.5	17	106	0.21	30.6	25	JR
4-Chlorophenyl phenyl ether	0.36	0.20	0.81	0	44.7	45	121	0.61	49.9	25	RQ
4-Nitroaniline	0.25	0.39	0.81	0	30.5	50	130	0.33	28.5	25	JRQY
4-Nitrophenol	0.96	1.0	2.0	0	47.4	30	132	1.6	48.5	25	JRY
Benzoic acid	1.1	1.2	1.6	0	66.8	40	117	1.9	55.4	25	JR
Benzyl alcohol	0.32	0.81	0.81	0	38.8	29	122	0.53	50.9	25	JR
Bis(2-chloroethoxy) methane	0.36	0.20	0.81	0	44.7	36	121	0.57	44.8	25	R
Bis(2-chloroethyl) ether	0.32	0.20	0.81	0	39.7	31	120	0.52	46.4	25	R
Bis(2-chloroisopropyl)ether	0.31	0.20	0.81	0	38.2	33	131	0.50	47.6	25	RZ
Bis(2-ethylhexyl) phthalate	0.36	0.20	0.81	0	44.2	51	133	0.61	52.2	25	RQ
Butyl benzyl phthalate	0.35	0.20	0.81	0	43.5	48	132	0.61	53.1	25	RQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**1606601-008AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**ZZZZZZ**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711448**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.38	0.20	0.81	0	46.9	50	123	0.61	46.1	25	RQ
Di-n-butyl phthalate	0.35	0.20	0.81	0	42.4	51	128	0.56	47.5	25	RQ
Di-n-octyl phthalate	0.39	0.20	0.81	0	47.4	45	140	0.65	51.2	25	R
Dibenzofuran	0.36	0.20	0.81	0	44.2	44	120	0.59	47.9	25	R
Diethyl phthalate	0.35	0.20	0.81	0	43.1	50	124	0.58	49.3	25	RQ
Dimethyl phthalate	0.34	0.20	0.81	0	42.0	48	124	0.56	49.0	25	RQ
Hexachlorobenzene	0.36	0.20	0.81	0	44.3	45	122	0.58	46.8	25	RQ
Hexachlorobutadiene	0.36	0.061	0.81	0	43.6	32	123	0.57	47.2	25	R
Hexachloroethane	0.30	0.20	0.81	0	36.6	28	117	0.50	50.1	25	R
Isophorone	0.34	0.20	0.81	0	42.1	30	122	0.55	47.0	25	R
N-Nitroso-di-n-propylamine	0.34	0.20	0.81	0	42.1	50	130	0.59	53.3	25	RQ
N-Nitrosodimethylamine	0.34	0.20	0.81	0	41.4	23	120	0.52	43.3	25	R
N-Nitrosodiphenylamine	0.35	0.20	0.81	0	43.2	38	127	0.56	45.9	25	R
Nitrobenzene	0.36	0.20	0.81	0	44.3	34	122	0.57	44.2	25	R
Pentachlorophenol	0.36	0.20	0.81	0	44.2	25	133	0.68	62.0	25	R
Phenol	0.36	0.20	0.81	0	44.1	34	121	0.59	48.5	25	R
Surr: 2,4,6-Tribromophenol	500		1,017		49.6	39	132		0	25	
Surr: 2-Fluorobiphenyl	470		1,017		46.3	44	115		0	25	
Surr: 2-Fluorophenol	440		1,017		43.1	35	115		0	25	
Surr: Nitrobenzene-d5	500		1,017		49.0	37	122		0	25	
Surr: Phenol-d5	450		1,017		44.4	33	122		0	25	
Surr: Terphenyl-d14	460		1,017		45.2	54	127		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	**MB-40258**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/26/2016**	RunNo:	**87700**
Client ID:	**PBS**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/22/2016**	SeqNo:	**1703881**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									U
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	15		16.61		91.5	46	115				
Surr: Nitrobenzene-d5	16		16.61		96.3	44	125				
Surr: Terphenyl-d14	17		16.61		101	58	133				

Sample ID:	**1606467-016DMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/26/2016**	RunNo:	**87700**
Client ID:	**ZZZZZZ**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/22/2016**	SeqNo:	**1703884**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.00072	0.014	0	139	43	111				Q
2-Methylnaphthalene	0.018	0.00072	0.014	0	128	39	114				Q
Acenaphthene	0.023	0.00072	0.014	0.013	64.3	44	111				
Acenaphthylene	0.016	0.00072	0.014	0	109	39	116				
Anthracene	0.036	0.00072	0.014	0.035	0.904	50	114				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	1606467-016DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87700
Client ID:	ZZZZZZ	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	7/22/2016	SeqNo:	1703884

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.12	0.00072	0.014	0.12	10.1	54	122				JQ
Benzo(a)pyrene	0.10	0.00072	0.014	0.10	-3.83	50	125				JQ
Benzo(b)fluoranthene	0.15	0.00072	0.014	0.14	108	53	128				J
Benzo(g,h,i)perylene	0.052	0.00072	0.014	0.055	-16.1	49	127				JQ
Benzo(k)fluoranthene	0.053	0.00072	0.014	0.065	-83.8	56	123				JQ
Chrysene	0.11	0.00072	0.014	0.12	-47.9	57	118				JQ
Dibenzo(a,h)anthracene	0.020	0.00072	0.014	0.0099	71.4	50	129				
Fluoranthene	0.26	0.00072	0.014	0.30	-253	55	119				JQ
Fluorene	0.024	0.00072	0.014	0.015	62.9	47	114				
Indeno(1,2,3-cd)pyrene	0.067	0.00072	0.014	0.066	5.55	49	130				JQ
Naphthalene	0.018	0.00072	0.014	0	124	38	111				Q
Phenanthrene	0.15	0.00072	0.014	0.18	-194	49	113				JQ
Pyrene	0.21	0.00072	0.014	0.23	-119	55	117				JQ
Surr: 2-Fluorobiphenyl	19		17.91		104	46	115				
Surr: Nitrobenzene-d5	21		17.91		119	44	125				
Surr: Terphenyl-d14	22		17.91		121	58	133				

Sample ID:	1606467-016DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87700
Client ID:	ZZZZZZ	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	7/22/2016	SeqNo:	1703885

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.028	0.00072	0.014	0	196	43	111	0.020	33.9	25	RQ
2-Methylnaphthalene	0.026	0.00072	0.014	0	182	39	114	0.018	34.9	25	RQ
Acenaphthene	0.049	0.00072	0.014	0.013	248	44	111	0.023	73.6	25	JRQ
Acenaphthylene	0.019	0.00072	0.014	0	133	39	116	0.016	19.4	25	Q
Anthracene	0.075	0.00072	0.014	0.035	280	50	114	0.036	71.9	25	JRQ
Benzo(a)anthracene	0.22	0.00072	0.014	0.12	733	54	122	0.12	60.4	25	JRQ
Benzo(a)pyrene	0.17	0.00072	0.014	0.10	467	50	125	0.10	50.2	25	JRQ
Benzo(b)fluoranthene	0.25	0.00072	0.014	0.14	764	53	128	0.15	46.6	25	JRQ
Benzo(g,h,i)perylene	0.083	0.00072	0.014	0.055	197	49	127	0.052	45.0	25	JRQ
Benzo(k)fluoranthene	0.095	0.00072	0.014	0.065	211	56	123	0.053	57.1	25	JRQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	1606467-016DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87700
Client ID:	ZZZZZZ	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	7/22/2016	SeqNo:	1703885

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.19	0.00072	0.014	0.12	552	57	118	0.11	56.5	25	JRQ
Dibenzo(a,h)anthracene	0.031	0.00072	0.014	0.0099	149	50	129	0.020	43.2	25	RQ
Fluoranthene	0.52	0.00072	0.014	0.30	1,530	55	119	0.26	65.8	25	JRQ
Fluorene	0.058	0.00072	0.014	0.015	301	47	114	0.024	82.9	25	JRQ
Indeno(1,2,3-cd)pyrene	0.11	0.00072	0.014	0.066	283	49	130	0.067	45.5	25	JRQ
Naphthalene	0.028	0.00072	0.014	0	194	38	111	0.018	44.0	25	RQ
Phenanthrene	0.38	0.00072	0.014	0.18	1,410	49	113	0.15	87.3	25	JRQ
Pyrene	0.40	0.00072	0.014	0.23	1,220	55	117	0.21	62.3	25	JRQ
Surr: 2-Fluorobiphenyl	22		17.87		123	46	115		0	25	Q
Surr: Nitrobenzene-d5	26		17.87		143	44	125		0	25	Q
Surr: Terphenyl-d14	26		17.87		144	58	133		0	25	Q

Sample ID:	LCS-40258	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.015	0.00065	0.013	0	115	43	111				Q
2-Methylnaphthalene	0.014	0.00065	0.013	0	104	39	114				
Acenaphthene	0.013	0.00065	0.013	0	103	44	111				
Acenaphthylene	0.014	0.00065	0.013	0	107	39	116				
Anthracene	0.014	0.00065	0.013	0	109	50	114				
Benzo(a)anthracene	0.015	0.00065	0.013	0	117	54	122				
Benzo(a)pyrene	0.013	0.00065	0.013	0	103	50	125				
Benzo(b)fluoranthene	0.016	0.00065	0.013	0	120	53	128				
Benzo(g,h,i)perylene	0.0089	0.00065	0.013	0	68.2	49	127				
Benzo(k)fluoranthene	0.016	0.00065	0.013	0	122	56	123				
Chrysene	0.014	0.00065	0.013	0	108	57	118				
Dibenzo(a,h)anthracene	0.010	0.00065	0.013	0	78.6	50	129				
Fluoranthene	0.015	0.00065	0.013	0	113	55	119				
Fluorene	0.014	0.00065	0.013	0	104	47	114				
Indeno(1,2,3-cd)pyrene	0.0089	0.00065	0.013	0	68.2	49	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	LCS-40258	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.013	0.00065	0.013	0	100	38	111				
Phenanthrene	0.014	0.00065	0.013	0	104	49	113				
Pyrene	0.014	0.00065	0.013	0	110	55	117				
Surr: 2-Fluorobiphenyl	20		16.26		124	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		145	44	125				Q
Surr: Terphenyl-d14	22		16.26		134	58	133				Q

Sample ID:	1-MB-40258	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	88049
Client ID:	PBS	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	7/22/2016	SeqNo:	1711955

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	15		16.61		91.5	46	115				
Surr: Nitrobenzene-d5	16		16.61		96.3	44	125				
Surr: Terphenyl-d14	17		16.61		101	58	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	1-LCS-40258	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	88049
Client ID:	LCSS	Batch ID:	40258	TestNo:	SW8270C	SW3550C		Analysis Date:	7/22/2016	SeqNo:	1711956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.016	0.00065	0.013	0	120	44	111				Q
Acenaphthylene	0.016	0.00065	0.013	0	120	39	116				Q
Anthracene	0.015	0.00065	0.013	0	116	50	114				Q
Benzo(a)anthracene	0.017	0.00065	0.013	0	133	54	122				Q
Benzo(a)pyrene	0.016	0.00065	0.013	0	121	50	125				
Benzo(b)fluoranthene	0.019	0.00065	0.013	0	148	53	128				Q
Benzo(g,h,i)perylene	0.016	0.00065	0.013	0	123	49	127				
Benzo(k)fluoranthene	0.014	0.00065	0.013	0	111	56	123				
Chrysene	0.016	0.00065	0.013	0	121	57	118				Q
Dibenzo(a,h)anthracene	0.016	0.00065	0.013	0	123	50	129				
Fluoranthene	0.016	0.00065	0.013	0	122	55	119				Q
Fluorene	0.015	0.00065	0.013	0	118	47	114				Q
Indeno(1,2,3-cd)pyrene	0.020	0.00065	0.013	0	151	49	130				Q
Phenanthrene	0.016	0.00065	0.013	0	120	49	113				Q
Pyrene	0.016	0.00065	0.013	0	126	55	117				Q
Surr: 2-Fluorobiphenyl	23		16.26		141	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		149	44	125				Q
Surr: Terphenyl-d14	24		16.26		150	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	**MB-40280**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/28/2016**	RunNo:	**87786**
Client ID:	**PBS**	Batch ID:	**40280**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/1/2016**	SeqNo:	**1706006**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00065	0.00065									U
2-Methylnaphthalene	0.00065	0.00065									U
Acenaphthene	0.00065	0.00065									U
Acenaphthylene	0.00065	0.00065									U
Anthracene	0.00065	0.00065									U
Benzo(a)anthracene	0.00065	0.00065									U
Benzo(a)pyrene	0.00065	0.00065									U
Benzo(b)fluoranthene	0.00065	0.00065									U
Benzo(g,h,i)perylene	0.00065	0.00065									U
Benzo(k)fluoranthene	0.00065	0.00065									U
Chrysene	0.00065	0.00065									U
Dibenzo(a,h)anthracene	0.00065	0.00065									U
Fluoranthene	0.00065	0.00065									U
Fluorene	0.00065	0.00065									U
Indeno(1,2,3-cd)pyrene	0.00065	0.00065									U
Naphthalene	0.00065	0.00065									U
Phenanthrene	0.00065	0.00065									U
Pyrene	0.00065	0.00065									U
Surr: 2-Fluorobiphenyl	19		16.27		116	46	115				Q
Surr: Nitrobenzene-d5	21		16.27		126	44	125				Q
Surr: Terphenyl-d14	21		16.27		128	58	133				

Sample ID:	**LCS-40280**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/28/2016**	RunNo:	**87786**
Client ID:	**LCSS**	Batch ID:	**40280**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/1/2016**	SeqNo:	**1706008**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.015	0.00067	0.013	0	115	43	111				Q
2-Methylnaphthalene	0.014	0.00067	0.013	0	104	39	114				
Acenaphthene	0.014	0.00067	0.013	0	107	44	111				
Acenaphthylene	0.014	0.00067	0.013	0	105	39	116				
Anthracene	0.014	0.00067	0.013	0	108	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.015	0.00067	0.013	0	114	54	122				
Benzo(a)pyrene	0.014	0.00067	0.013	0	103	50	125				
Benzo(b)fluoranthene	0.016	0.00067	0.013	0	122	53	128				
Benzo(g,h,i)perylene	0.014	0.00067	0.013	0	107	49	127				
Benzo(k)fluoranthene	0.014	0.00067	0.013	0	107	56	123				
Chrysene	0.015	0.00067	0.013	0	110	57	118				
Dibenzo(a,h)anthracene	0.014	0.00067	0.013	0	108	50	129				
Fluoranthene	0.015	0.00067	0.013	0	113	55	119				
Fluorene	0.014	0.00067	0.013	0	104	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00067	0.013	0	107	49	130				
Naphthalene	0.014	0.00067	0.013	0	103	38	111				
Phenanthrene	0.014	0.00067	0.013	0	103	49	113				
Pyrene	0.015	0.00067	0.013	0	111	55	117				
Surr: 2-Fluorobiphenyl	21		16.66		125	46	115				Q
Surr: Nitrobenzene-d5	23		16.66		140	44	125				Q
Surr: Terphenyl-d14	22		16.66		133	58	133				Q

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.019	0.00079	0.016	0.0010	115	43	111				Q
2-Methylnaphthalene	0.018	0.00079	0.016	0.0019	103	39	114				
Acenaphthene	0.017	0.00079	0.016	0.0012	101	44	111				
Acenaphthylene	0.018	0.00079	0.016	0.00090	107	39	116				
Anthracene	0.019	0.00079	0.016	0.0024	106	50	114				
Benzo(a)anthracene	0.027	0.00079	0.016	0.014	83.7	54	122				
Benzo(a)pyrene	0.024	0.00079	0.016	0.013	70.8	50	125				
Benzo(b)fluoranthene	0.040	0.00079	0.016	0.023	108	53	128				J
Benzo(g,h,i)perylene	0.012	0.00079	0.016	0	74.6	49	127				
Benzo(k)fluoranthene	0.018	0.00079	0.016	0.0053	80.4	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.027	0.00079	0.016	0.014	83.1	57	118				
Dibenzo(a,h)anthracene	0.011	0.00079	0.016	0	69.2	50	129				
Fluoranthene	0.036	0.00079	0.016	0.028	52.5	55	119				Q
Fluorene	0.017	0.00079	0.016	0.0013	99.8	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00079	0.016	0.0053	41.0	49	130				Q
Naphthalene	0.017	0.00079	0.016	0.0014	101	38	111				
Phenanthrene	0.027	0.00079	0.016	0.015	76.3	49	113				
Pyrene	0.033	0.00079	0.016	0.023	64.8	55	117				
Surr: 2-Fluorobiphenyl	23		19.72		119	46	115				Q
Surr: Nitrobenzene-d5	28		19.72		142	44	125				Q
Surr: Terphenyl-d14	28		19.72		144	58	133				Q

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706920

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.019	0.00078	0.016	0.0010	117	43	111	0.019	0.248	25	Q
2-Methylnaphthalene	0.018	0.00078	0.016	0.0019	102	39	114	0.018	2.87	25	
Acenaphthene	0.018	0.00078	0.016	0.0012	108	44	111	0.017	4.58	25	
Acenaphthylene	0.018	0.00078	0.016	0.00090	111	39	116	0.018	2.02	25	
Anthracene	0.021	0.00078	0.016	0.0024	121	50	114	0.019	10.1	25	Q
Benzo(a)anthracene	0.045	0.00078	0.016	0.014	200	54	122	0.027	49.5	25	JRQ
Benzo(a)pyrene	0.034	0.00078	0.016	0.013	141	50	125	0.024	36.8	25	RQ
Benzo(b)fluoranthene	0.050	0.00078	0.016	0.023	175	53	128	0.040	22.4	25	JQ
Benzo(g,h,i)perylene	0.015	0.00078	0.016	0	97.2	49	127	0.012	24.8	25	
Benzo(k)fluoranthene	0.027	0.00078	0.016	0.0053	142	56	123	0.018	41.4	25	RQ
Chrysene	0.038	0.00078	0.016	0.014	152	57	118	0.027	32.4	25	RQ
Dibenzo(a,h)anthracene	0.0013	0.00078	0.016	0	8.49	50	129	0.011	157	25	RQ
Fluoranthene	0.066	0.00078	0.016	0.028	245	55	119	0.036	58.1	25	JRQ
Fluorene	0.018	0.00078	0.016	0.0013	106	47	114	0.017	4.53	25	
Indeno(1,2,3-cd)pyrene	0.015	0.00078	0.016	0.0053	63.1	49	130	0.012	24.8	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	**1606601-008AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/28/2016**	RunNo:	**87818**
Client ID:	**ZZZZZZ**	Batch ID:	**40280**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/2/2016**	SeqNo:	**1706920**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.017	0.00078	0.016	0.0014	100	38	111	0.017	1.78	25	
Phenanthrene	0.034	0.00078	0.016	0.015	124	49	113	0.027	23.6	25	Q
Pyrene	0.059	0.00078	0.016	0.023	232	55	117	0.033	56.2	25	JRQ
Surr: 2-Fluorobiphenyl	25		19.41		129	46	115		0	25	Q
Surr: Nitrobenzene-d5	29		19.41		151	44	125		0	25	Q
Surr: Terphenyl-d14	29		19.41		150	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40377

Sample ID:	1606512-012BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	ZZZZZZ	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697231

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.21	0.043	0.22	0	94.9	46	129				
Aroclor 1260	0.21	0.043	0.22	0	96.9	45	134				
Surr: Tetrachloro-m-xylene	9.5		10.96		86.4	44	130				
Surr: Decachlorobiphenyl	10		10.96		94.0	40	135				

Sample ID:	1606512-012BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	ZZZZZZ	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697232

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.21	0.043	0.22	0	97.2	46	129	0.21	1.93	25	
Aroclor 1260	0.22	0.043	0.22	0	103	45	134	0.21	5.54	25	
Surr: Tetrachloro-m-xylene	9.9		10.91		90.8	44	130		0	25	
Surr: Decachlorobiphenyl	11		10.91		103	40	135		0	25	

Sample ID:	LCS-40377	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	LCSS	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697259

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.033	0.17	0	87.5	46	129				
Aroclor 1260	0.15	0.033	0.17	0	91.9	45	134				
Surr: Tetrachloro-m-xylene	6.5		8.317		78.5	44	130				
Surr: Decachlorobiphenyl	7.6		8.317		91.5	40	135				

Sample ID:	MB-40377	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	PBS	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697260

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40377**

Sample ID:	MB-40377	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87408
Client ID:	PBS	Batch ID:	40377	TestNo:	SW8082	SW3546		Analysis Date:	7/12/2016	SeqNo:	1697260

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	8.6		8.330		103	44	130				
Surr: Decachlorobiphenyl	9.6		8.330		116	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40445**

Sample ID:	MB-40445	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	PBS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700107

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	2.1	50									J
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40445	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	LCSS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	26	5.0	25	0	104	74	119				
Antimony	25	1.0	25	0	99.8	79	114				
Arsenic	24	2.0	25	0	97.0	82	111				
Barium	25	10	25	0	99.3	83	113				
Beryllium	24	0.25	25	0	96.0	83	113				
Cadmium	24	0.25	25	0	96.3	82	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40445**

Sample ID:	**LCS-40445**	Samp Type:	**LCS**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**7/15/2016**	RunNo:	**87541**
Client ID:	**LCSS**	Batch ID:	**40445**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1700108**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Calcium	230	50	250	0	90.9	81	116				
Cobalt	26	1.0	25	0	103	85	112				
Copper	27	5.0	25	0	106	81	117				
Iron	230	15	250	0	92.0	81	118				
Lead	26	5.0	25	0	103	81	112				
Magnesium	240	50	250	0	96.1	78	115				
Manganese	27	1.0	25	0	107	84	114				
Nickel	25	5.0	25	0	101	83	113				
Potassium	240	20	250	0	97.1	81	116				
Selenium	26	2.0	25	0	103	78	111				
Silver	24	1.0	25	0	95.6	82	112				
Sodium	240	50	250	0	96.0	83	118				
Vanadium	25	2.5	25	0	100	82	114				
Zinc	25	5.0	25	0	99.7	82	113				

Sample ID:	**1606652-015FMS**	Samp Type:	**MS**	Test Code:	**SW_6010S**	Units:	**mg/Kg-dry**	Prep Date:	**7/15/2016**	RunNo:	**87541**
Client ID:	**ZZZZZZ**	Batch ID:	**40445**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**7/21/2016**	SeqNo:	**1700110**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	6,800	3.6	18	6,000	4,650	74	119				Q
Antimony	20	0.72	18	3.0	95.9	79	114				
Arsenic	19	1.4	18	1.4	100	82	111				
Barium	35	7.2	18	16	105	83	113				
Beryllium	17	0.18	18	0	96.7	83	113				
Cadmium	18	0.18	18	0.031	97.7	82	113				
Calcium	1,300	36	180	640	356	81	116				Q
Cobalt	20	0.72	18	3.3	92.8	85	112				
Copper	54	3.6	18	29	138	81	117				Q
Iron	13,000	11	180	11,000	1,130	81	118				JQ
Lead	20	3.6	18	2.2	97.0	81	112				
Magnesium	1,500	36	180	1,300	103	78	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40445**

Sample ID:	1606652-015FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700110

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Manganese	180	0.72	18	180	-16.1	84	114				JQ
Nickel	23	3.6	18	6.5	94.0	83	113				
Potassium	990	14	180	840	84.0	81	116				
Selenium	12	1.4	18	0	69.2	78	111				Q
Silver	17	0.72	18	0	96.6	82	112				
Sodium	270	36	180	77	107	83	118				
Vanadium	41	1.8	18	19	122	82	114				JQ
Zinc	31	3.6	18	14	94.6	82	113				

Sample ID:	1606652-015FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700111

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,000	3.5	18	6,000	5,690	74	119	6,800	2.52	20	Q
Antimony	20	0.71	18	3.0	96.4	79	114	20	0.649	20	
Arsenic	19	1.4	18	1.4	101	82	111	19	0.683	20	
Barium	36	7.1	18	16	112	83	113	35	3.16	20	
Beryllium	17	0.18	18	0	97.3	83	113	17	0.636	20	
Cadmium	17	0.18	18	0.031	97.7	82	113	18	1.34	20	
Calcium	860	35	180	640	124	81	116	1,300	38.9	20	RQ
Cobalt	20	0.71	18	3.3	93.1	85	112	20	0.764	20	
Copper	54	3.5	18	29	144	81	117	54	1.15	20	Q
Iron	14,000	11	180	11,000	1,460	81	118	13,000	4.16	20	JQ
Lead	19	3.5	18	2.2	95.5	81	112	20	2.51	20	
Magnesium	1,600	35	180	1,300	171	78	115	1,500	7.59	20	Q
Manganese	220	0.71	18	180	197	84	114	180	18.9	20	JQ
Nickel	23	3.5	18	6.5	95.4	83	113	23	0.203	20	
Potassium	950	14	180	840	63.5	81	116	990	3.93	20	Q
Selenium	13	1.4	18	0	72.4	78	111	12	3.20	20	Q
Silver	17	0.71	18	0	97.5	82	112	17	0.368	20	
Sodium	240	35	180	77	92.8	83	118	270	11.1	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40445

Sample ID:	1606652-015FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541	
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700111	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Vanadium	38	1.8	18	19	109	82	114	41	6.75	20	J	
Zinc	30	3.5	18	14	94.0	82	113	31	1.05	20		

Sample ID:	MB-40445	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	PBS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701727	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	0.50	0.50									U	

Sample ID:	LCS-40445	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	LCSS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701729	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	25	0.50	25	0	101	85	113					

Sample ID:	1606652-015FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701733	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	29	0.36	18	10	101	85	113					

Sample ID:	1606652-015FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701734	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	30	0.35	18	10	110	85	113	29	4.61	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40483

Sample ID:	1606601-008BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	ZZZZZZ	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699789

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.039	0.20	0	66.7	46	129				
Aroclor 1260	0.16	0.039	0.20	0	83.0	45	134				
Surr: Tetrachloro-m-xylene	6.3		9.865		64.2	44	130				
Surr: Decachlorobiphenyl	7.9		9.865		80.5	40	135				

Sample ID:	1606601-008BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	ZZZZZZ	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699790

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.039	0.20	0	75.5	46	129	0.13	11.2	25	
Aroclor 1260	0.18	0.039	0.20	0	93.9	45	134	0.16	11.2	25	
Surr: Tetrachloro-m-xylene	7.0		9.755		71.9	44	130		0	25	
Surr: Decachlorobiphenyl	8.7		9.755		89.7	40	135		0	25	

Sample ID:	LCS-40483	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	LCSS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699817

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.19	0.033	0.16	0	113	46	129				
Aroclor 1260	0.20	0.033	0.16	0	121	45	134				
Surr: Tetrachloro-m-xylene	8.6		8.234		105	44	130				
Surr: Decachlorobiphenyl	9.7		8.234		118	40	135				

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40483

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.5		8.297		90.5	44	130				
Surr: Decachlorobiphenyl	8.3		8.297		99.9	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40501**

Sample ID:	LCS-40501	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/21/2016	RunNo:	87609
Client ID:	LCSS	Batch ID:	40501	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1702241

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	10	0.20	10	0	104	83	118				

Sample ID:	MB-40501	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/21/2016	RunNo:	87609
Client ID:	PBS	Batch ID:	40501	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1702242

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	1606506-006CMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/21/2016	RunNo:	87609
Client ID:	ZZZZZZ	Batch ID:	40501	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1702244

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.2	0.14	7.2	0.10	98.6	83	118				

Sample ID:	1606506-006CMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/21/2016	RunNo:	87609
Client ID:	ZZZZZZ	Batch ID:	40501	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1702245

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.2	0.14	7.0	0.10	101	83	118	7.2	0.247	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40503**

Sample ID:	1606601-008CMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/22/2016	RunNo:	87592
Client ID:	ZZZZZZ	Batch ID:	40503	TestNo:	SW6020A	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701599

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.8	0.16	7.9	0.13	85.4	83	118				G

Sample ID:	LCS-40503	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/22/2016	RunNo:	87592
Client ID:	LCSS	Batch ID:	40503	TestNo:	SW6020A	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701600

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.7	0.20	10	0	97.4	83	118				G

Sample ID:	MB-40503	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/22/2016	RunNo:	87592
Client ID:	PBS	Batch ID:	40503	TestNo:	SW6020A	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701601

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									UG

Sample ID:	1606601-008CMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/22/2016	RunNo:	87592
Client ID:	ZZZZZZ	Batch ID:	40503	TestNo:	SW6020A	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701602

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.5	0.16	7.9	0.13	94.1	83	118	6.8	9.51	20	G

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86818**

Sample ID:	**1606588-005D DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86818**
Client ID:	**ZZZZZZ**	Batch ID:	**R86818**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684485**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	10	1.0						10.11	0.916	20	

Sample ID:	**1606593-004C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86818**
Client ID:	**WDS-SB06-05LR1**	Batch ID:	**R86818**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684505**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	12	1.0						12.12	3.55	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86819**

Sample ID:	**1606593-006C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86819**	
Client ID:	**WDS-SB14-11LR1**	Batch ID:	**R86819**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684508**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	3.4	1.0						3.340	1.63	20		

Sample ID:	**1606601-005C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86819**	
Client ID:	**ZZZZZZ**	Batch ID:	**R86819**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684527**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	9.1	1.0						9.556	5.25	20		

RTI Laboratories - Definitions and Acronyms

WO#: 1606593

Date Reported: 8/29/2016
Revision v2

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Hb 06593

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061516-04
Batch May16

	Database Information					Other Sample Information					Analysis												
	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	WDS-SB01	--	--	N	1	WDS-SB01-01	06/14/16	1420	SS	3	43					1	X(R)		1	1			
2	WDS-SB02	--	--	N	1	WDS-SB02-02	06/14/16	1435	SO	3						1	X(R)		1	1			
3	WDS-SB03	--	--	N	1	WDS-SB03-06	06/14/16	1440	SO	3						1	X(R)		1	1			
4	WDS-SB06	--	--	N	1	WDS-SB06-05	06/14/16	0945	SO	3						1			1	1			
5	WDS-SB07	--	--	N	1	WDS-SB07-05	06/14/16	0930	SO	3						1			1	1			
6	WDS-SB14	--	--	N	1	WDS-SB14-11	06/14/16	1310	SO	3						1			1	1			
7	WDS-SB15	--	--	N	1	WDS-SB15-13	06/14/16	1145	SO	3						1			1	1			
8	WDS-SB16	--	--	N	1	WDS-SB16-13	06/14/16	1215	SO	3						1			1	1			
9	WDS-SB17	--	--	N	1	WDS-SB17-13	06/14/16	1250	SO	3						1			1	1			
10	MP-SB01	--	--	N	1	MP-SB01-04	06/14/16	1026	SO	1							1						
11	MP-SB01	--	--	FD	1	MP-SB01-04DUP	06/14/16	1025	SO	1							1						
12	H21-SB01	--	--	N	1	H21-SS01-01	06/14/16	0900	SS	3						1			1	1			
13	H21-SB01	--	--	N	1	H21-SB01-11	06/14/16	0905	SO	3						1			1	1			

	Date	Time		Date	Time
1. Relinquished By / Company: AECOM	6/15/16	1200	1. Received By / Company: Transfer to FedEx	6/15/16	1200
2. Relinquished By / Company	Date	Time	2. Received By / Company: FedEx Ryder	6/16/16	0912
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments: WDS, Motor Pool, H21

Shipment Method/Airbill No.: 870302025281

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

Blue three

1606593

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: ~~061316-03~~ Batch May16 061516-04

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
~~Field QC~~	-	-																				
14 H21-SB02	-	-	N	1	H21-SS02-01	06/14/16	0850	SS	3	43					1			1	1			
15 H21-SB02	-	-	N	1	H21-SB02-10	06/14/16	0855	SO	3	↓					1			1	1			
16 H21-SB03	-	-	N	1	H21-SS03-01	06/14/16	0830	SS	3						1			1	1			
17 H21-SB03	-	-	N	1	H21-SB03-06	06/14/16	0835	SO	3						1			1	1			
18 WDS-SB04	-	-	N	1	~~H21~~ WDS-SB04-01	06/14/16	1600	SS	3						1			1	1			
19 WDS-SB05	-	-	N	1	WDS-SB05-01	06/14/16	1605	SS	3						1			1	1			

1. Relinquished By / Company	AECOM	06/15/16	1200	1. Received By / Company	Transfer to FedEx
2. Relinquished By / Company		Date	Time	2. Received By / Company	Date / Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	Date / Time

Comments

Shipment Method/Airbill No. 810302625681

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

Blue three

Cooler # 043
Cooler ID Blue three
CofC ID: 061516-04
tracking # 810302025681
Cooler Temp Blank 5.2°C

CUSTODY SEALS
Date 6/15/16
Signature

CUSTODY SEALS
Date 6/15/16
Signature

Cooler # 040
Cooler ID ODISODINSON-1
CofC ID: 061516-01
tracking: 810302025718
Cooler Temp Blank 4.4°C

CUSTODY SEALS
Date 6/15/16
Signature

6/15/16

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
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Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606601

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

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Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606601-001A	H1-SS01-01		6/15/2016 8:40 AM	6/17/2016 9:50 AM	Soil
1606601-001B	H1-SS01-01		6/15/2016 8:40 AM	6/17/2016 9:50 AM	Soil
1606601-001C	H1-SS01-01		6/15/2016 8:40 AM	6/17/2016 9:50 AM	Soil
1606601-002A	H1-SS01-02		6/15/2016 8:50 AM	6/17/2016 9:50 AM	Soil
1606601-002B	H1-SS01-02		6/15/2016 8:50 AM	6/17/2016 9:50 AM	Soil
1606601-002C	H1-SS01-02		6/15/2016 8:50 AM	6/17/2016 9:50 AM	Soil
1606601-003A	H1-SS02-01		6/15/2016 9:00 AM	6/17/2016 9:50 AM	Soil
1606601-003B	H1-SS02-01		6/15/2016 9:00 AM	6/17/2016 9:50 AM	Soil
1606601-003C	H1-SS02-01		6/15/2016 9:00 AM	6/17/2016 9:50 AM	Soil
1606601-004A	H1-SS02-02		6/15/2016 9:05 AM	6/17/2016 9:50 AM	Soil
1606601-004B	H1-SS02-02		6/15/2016 9:05 AM	6/17/2016 9:50 AM	Soil
1606601-004C	H1-SS02-02		6/15/2016 9:05 AM	6/17/2016 9:50 AM	Soil
1606601-005A	H2-SS01-01		6/15/2016 9:40 AM	6/17/2016 9:50 AM	Soil
1606601-005B	H2-SS01-01		6/15/2016 9:40 AM	6/17/2016 9:50 AM	Soil
1606601-005C	H2-SS01-01		6/15/2016 9:40 AM	6/17/2016 9:50 AM	Soil
1606601-006A	H2-SS01-02		6/15/2016 9:50 AM	6/17/2016 9:50 AM	Soil
1606601-006B	H2-SS01-02		6/15/2016 9:50 AM	6/17/2016 9:50 AM	Soil
1606601-006C	H2-SS01-02		6/15/2016 9:50 AM	6/17/2016 9:50 AM	Soil
1606601-007A	H2-SS02-01		6/15/2016 10:00 AM	6/17/2016 9:50 AM	Soil
1606601-007B	H2-SS02-01		6/15/2016 10:00 AM	6/17/2016 9:50 AM	Soil
1606601-007C	H2-SS02-01		6/15/2016 10:00 AM	6/17/2016 9:50 AM	Soil
1606601-008A	H2-SS02-02		6/15/2016 10:10 AM	6/17/2016 9:50 AM	Soil
1606601-008B	H2-SS02-02		6/15/2016 10:10 AM	6/17/2016 9:50 AM	Soil
1606601-008C	H2-SS02-02		6/15/2016 10:10 AM	6/17/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical Report revised 8/12/2016: Compound 3,3´-Dichlorobenzidine was missing in the SVOC analysis. Also Benzoic Acid was missing in the QC Summary report for the LCS, MS and MSD.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A
- Polychlorinated Biphenyls - 8082A
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87747, Batch ID R87747:
Sample ICV S8 070216: ICV result for Bis(2-chloroisopropyl)ether exceeded control limits.
Sample CCV S8 070816: CCV results for 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitroaniline,2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4 Nitroaniline and 4-Nitrophenol exceeded control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87747, Batch ID 40244:
Sample 1606601-001A: Surrogate recovery for Terphenyl-d14 exceeded control limits.
Sample 1606601-003A: Surrogate recovery for Terphenyl-d14 exceeded control limits.
Sample 1606601-005A: Surrogate recovery for Terphenyl-d14 exceeded control limits.
Sample 1606601-008A: Surrogate recovery for Terphenyl-d14 was outside control criteria.
Sample 1606601-008AMS: Spike recoveries for 4-Nitroaniline and 3,3-Dichlorobenzidine wer outside control criteria. Result for 2,4-Dinitrophenol was above calibration range.
Sample 1606601-008AMSD: Spike recoveries and RPD percentages for multiple analytes were outside control criteria. Surrogate recovery for Terphenyl-d14 was outside control criteria. Possible spiking error.
Sample LCS-40244: Spike recovery for Benzoic Acid and 3,3-Dichlorobenzidine were outside the control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87828, Batch ID R87828:
Sample ICV S8 080216: ICV results for 4,6-Dinitro-2-methylpehnol and Bis(2-chloroisopropyl)ether exceeded control limits.
Sample CCV S8 080316: CCV results for 4,6-Dinitro-2-methylpehnol, Benzoic acid, Bis(2-chloroisopropyl)ether and Pentachlorophenol exceeded control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87786, Batch ID 87786:
Sample CCV SIM S7 080116: Results for 1-Methylnaphthalene exceeded QC Limit.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87786, Batch ID 40280:
Sample MB-40280: Recoveries for 2-Fluorobiphenyl and Nitrobenzene-d5 were outside control criteria.
Sample LCS-40280: Spike recovery for 1-Methylnaphthalene was outside the control limits. Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.
Sample 1606601-002A: Surrogate recovery for Nitrobenzene-d5 was outside control criteria.
Sample 1606601-003A: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87818, Batch ID 40280:
Sample 1606601-006A: Surrogate recoveries for 2-Fluorobiphenyl and Nitrobenzene-d5 exceeded control limits due to elevated concentrations of target and non-target analytes in the sample.
Sample 1606601-008A: Surrogate recovery for Nitrobenzene-d5 exceeded control limits.
Sample 1606601-008AMS: Spike recoveries for 1-Methylnaphthalene, Fluoranthene, and Indeno(1,2,3-cd)pyrene were outside the control limits. Result for Benzo(b)fluoranthene was above calibration range. Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.
Sample 1606601-008A MSD: Spike recoveries and RPD percentages for several compounds were outside the control limits. Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87158, Batch ID 40326:
Sample 1606601-008CMS: Spike recoveries for several analytes exceeded control limits. Further dilutions were required for parent sample. Suspected matrix interference for Copper.
Sample 1606601-008CMSD: Spike recoveries for several analytes exceeded control limits. Further dilutions were required for parent sample.

Suspected matrix interference for Copper. Suspected matrix interference for Copper.

Analytical Comments for Test SW_6010S, Analytical Run No 87697, Batch ID 40406:
Sample 1606605-003BMS: Spike recoveries for several analytes were outside the control limits. Sample was not associated with work order.
Sample 1606605-003BMSD: Spike recoveries for several analytes were outside the control limits. RPD percentage for Selenium was above the control limit. Sample was not associated with work order.

Analytical Comments for Test SW_6010S, Analytical Run No 87792, Batch ID 40406:
Sample 1606605-003BMS: Recoveries for Chromium and Zinc were outside control limits. Sample was not associated with work order.
Sample 1606605-003BMS: Recovery for Zinc was outside control limits. Sample was not associated with work order.

Analytical Comments for Test SW_6010S, Analytical Run No 87541, Batch ID 40445:
Sample 1606652-015FMS: Spike recoveries for several analytes were outside the control limits. Sample was not associated with work order.
Sample 1606652-015FMSD: Spike recoveries for several analytes were outside the control limits. The RPD percentage for Calcium was above control limit. Sample was not associated with work order.

Analytical Comments for Test SW_8082S, Analytical Run No 87531, Batch ID 40483:
Sample 1606601-005B: Surrogate recovery for Tetrachloro-m-xylene exceeded control limits.

RTI Laboratories - Analytical Report

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:40:00 AM
Project:	Camp Hero		
Lab ID:	1606601-001	**Matrix:**	Soil
Client Sample ID:	H1-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0096	U	0.0043	0.0096	0.048	mg/Kg-dry	1	7/21/2016 3:44 AM
Aroclor 1221	0.0096	U	0.0043	0.0096	0.048	mg/Kg-dry	1	7/21/2016 3:44 AM
Aroclor 1232	0.0096	U	0.0065	0.0096	0.048	mg/Kg-dry	1	7/21/2016 3:44 AM
Aroclor 1242	0.0096	U	0.0054	0.0096	0.048	mg/Kg-dry	1	7/21/2016 3:44 AM
Aroclor 1248	0.0096	U	0.0051	0.0096	0.048	mg/Kg-dry	1	7/21/2016 3:44 AM
Aroclor 1254	0.0096	U	0.0061	0.0096	0.048	mg/Kg-dry	1	7/21/2016 3:44 AM
Aroclor 1260	0.0096	U	0.0042	0.0096	0.048	mg/Kg-dry	1	7/21/2016 3:44 AM
Aroclor 1262	0.0096	U	0.0042	0.0096	0.048	mg/Kg-dry	1	7/21/2016 3:44 AM
Aroclor 1268	0.0096	U	0.0035	0.0096	0.048	mg/Kg-dry	1	7/21/2016 3:44 AM
Surr: Tetrachloro-m-xylene	65.3			44-130		%Rec	1	7/21/2016 3:44 AM
Surr: Decachlorobiphenyl	74.9			60-125		%Rec	1	7/21/2016 3:44 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	4,300		72	190	480	mg/Kg-dry	100	7/28/2016 2:07 PM
Antimony	0.78	J	0.36	0.48	0.97	mg/Kg-dry	1	7/28/2016 1:07 PM
Arsenic	0.90	J	0.70	0.97	1.9	mg/Kg-dry	1	7/28/2016 1:07 PM
Barium	19		0.29	4.8	9.7	mg/Kg-dry	1	7/28/2016 1:07 PM
Beryllium	0.063	J	0.012	0.048	0.24	mg/Kg-dry	1	7/28/2016 1:07 PM
Cadmium	0.066	J	0.032	0.048	0.24	mg/Kg-dry	1	7/28/2016 1:07 PM
Calcium	860		2.8	9.7	48	mg/Kg-dry	1	7/28/2016 1:07 PM
Chromium	6.7		0.079	0.39	0.48	mg/Kg-dry	1	8/2/2016 12:41 PM
Cobalt	0.78	J	0.087	0.24	0.97	mg/Kg-dry	1	7/28/2016 1:07 PM
Copper	8.4		0.40	0.97	4.8	mg/Kg-dry	1	7/28/2016 1:07 PM
Iron	3,300		300	480	1,400	mg/Kg-dry	100	7/28/2016 2:07 PM
Lead	2.5	J	0.60	0.97	4.8	mg/Kg-dry	1	7/28/2016 1:07 PM
Magnesium	490		3.4	4.8	48	mg/Kg-dry	1	7/28/2016 1:07 PM
Manganese	43		0.18	0.24	0.97	mg/Kg-dry	1	7/28/2016 1:07 PM
Nickel	2.4	J	0.27	0.97	4.8	mg/Kg-dry	1	7/28/2016 1:07 PM
Potassium	370		2.2	9.7	19	mg/Kg-dry	1	7/28/2016 1:07 PM
Selenium	1.4	U	1.1	1.4	1.9	mg/Kg-dry	1	7/28/2016 1:07 PM
Silver	0.24	U	0.079	0.24	0.97	mg/Kg-dry	1	7/28/2016 1:07 PM
Sodium	79		2.0	4.8	48	mg/Kg-dry	1	7/28/2016 1:07 PM
Vanadium	6.3		0.12	0.97	2.4	mg/Kg-dry	1	7/28/2016 1:07 PM
Zinc	11		0.37	0.48	4.8	mg/Kg-dry	1	8/2/2016 12:41 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.068	J	0.047	0.048	0.19	mg/Kg-dry	10	7/15/2016 1:59 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.024	U	0.013	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
1,2-Dichlorobenzene	0.024	U	0.010	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
1,3-Dichlorobenzene	0.024	U	0.0099	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
1,4-Dichlorobenzene	0.024	U	0.0077	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
2,4,5-Trichlorophenol	0.048	U	0.024	0.048	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM

RTI Laboratories - Analytical Report

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 8:40:00 AM
Project: Camp Hero
Lab ID: 1606601-001 **Matrix:** Soil
Client Sample ID: H1-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.048	UY	0.027	0.048	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
2,4-Dichlorophenol	0.12	U	0.041	0.12	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
2,4-Dimethyl phenol	0.12	U	0.046	0.12	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
2,4-Dinitrophenol	0.24	UY	0.14	0.24	1.2	mg/Kg-dry	1	7/8/2016 9:10 PM
2,4-Dinitrotoluene	0.024	UY	0.021	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
2,6-Dinitrotoluene	0.024	U	0.023	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
2-Chloronaphthalene	0.024	U	0.016	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
2-Chlorophenol	0.12	U	0.050	0.12	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
2-Methylphenol (o-Cresol)	0.12	U	0.051	0.12	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
2-Nitroaniline	0.024	UY	0.012	0.024	0.46	mg/Kg-dry	1	7/8/2016 9:10 PM
2-Nitrophenol	0.12	UY	0.059	0.12	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
3,3´-Dichlorobenzidine	0.96	U	0.61	0.96	1.4	mg/Kg-dry	1	7/8/2016 9:10 PM
3-Nitroaniline	0.024	UY	0.017	0.024	0.46	mg/Kg-dry	1	7/8/2016 9:10 PM
3/4-Methylphenol [m/p-Cresol]	0.12	U	0.085	0.12	0.46	mg/Kg-dry	1	7/8/2016 9:10 PM
4,6-Dinitro-2-methylphenol	0.12	UY	0.069	0.12	0.46	mg/Kg-dry	1	7/8/2016 9:10 PM
4-Bromophenyl phenyl ether	0.12	U	0.061	0.12	0.29	mg/Kg-dry	1	7/8/2016 9:10 PM
4-Chloro-3-methylphenol	0.048	U	0.025	0.048	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
4-Chloroaniline [p-Chloroaniline]	0.12	U	0.036	0.12	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
4-Chlorophenyl phenyl ether	0.024	U	0.014	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
4-Nitroaniline	0.12	UY	0.034	0.12	0.46	mg/Kg-dry	1	7/8/2016 9:10 PM
4-Nitrophenol	0.48	UY	0.34	0.48	1.2	mg/Kg-dry	1	7/8/2016 9:10 PM
Benzoic acid	0.30	JQ	0.19	0.48	1.4	mg/Kg-dry	1	7/8/2016 9:10 PM
Benzyl alcohol	0.024	U	0.012	0.024	0.95	mg/Kg-dry	1	7/8/2016 9:10 PM
Bis(2-chloroethoxy) methane	0.024	U	0.0099	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Bis(2-chloroethyl) ether	0.048	U	0.026	0.048	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Bis(2-chloroisopropyl)ether	0.024	UZ	0.011	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Bis(2-ethylhexyl) phthalate	0.048	U	0.042	0.048	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Butyl benzyl phthalate	0.048	U	0.028	0.048	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Carbazole	0.024	U	0.016	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Di-n-butyl phthalate	0.048	U	0.026	0.048	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Di-n-octyl phthalate	0.024	U	0.016	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Dibenzofuran	0.024	U	0.012	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Diethyl phthalate	0.024	U	0.018	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Dimethyl phthalate	0.024	U	0.016	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Hexachlorobenzene	0.024	U	0.013	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Hexachlorobutadiene	0.024	U	0.022	0.024	0.072	mg/Kg-dry	1	7/8/2016 9:10 PM
Hexachloroethane	0.024	U	0.011	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Isophorone	0.024	U	0.0099	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
N-Nitroso-di-n-propylamine	0.024	U	0.013	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
N-Nitrosodimethylamine	0.024	U	0.012	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
N-Nitrosodiphenylamine	0.024	U	0.012	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Nitrobenzene	0.024	U	0.015	0.024	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Pentachlorophenol	0.12	U	0.090	0.12	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Phenol	0.12	U	0.051	0.12	0.23	mg/Kg-dry	1	7/8/2016 9:10 PM
Surr: 2,4,6-Tribromophenol	55.6			39-132		%Rec	1	7/8/2016 9:10 PM
Surr: 2-Fluorobiphenyl	50.0			44-115		%Rec	1	7/8/2016 9:10 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:40:00 AM
Project:	Camp Hero		
Lab ID:	1606601-001	**Matrix:**	Soil
Client Sample ID:	H1-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	41.1			35-115		%Rec	1	7/8/2016 9:10 PM
Surr: Nitrobenzene-d5	52.7			37-122		%Rec	1	7/8/2016 9:10 PM
Surr: Phenol-d5	45.3			33-122		%Rec	1	7/8/2016 9:10 PM
Surr: Terphenyl-d14	51.4	Q		54-127		%Rec	1	7/8/2016 9:10 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00096	UQ	0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
2-Methylnaphthalene	0.00096	U	0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Acenaphthene	0.00096	U	0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Acenaphthylene	0.00096	U	0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Anthracene	0.00096	U	0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Benzo(a)anthracene	0.0031		0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Benzo(a)pyrene	0.0028		0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Benzo(b)fluoranthene	0.0072		0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Benzo(g,h,i)perylene	0.0025		0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Benzo(k)fluoranthene	0.0018		0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Chrysene	0.0035		0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Dibenzo(a,h)anthracene	0.00096	U	0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Fluoranthene	0.0091		0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Fluorene	0.00096	U	0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Indeno(1,2,3-cd)pyrene	0.0025		0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Naphthalene	0.00096	U	0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Phenanthrene	0.0046		0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Pyrene	0.0074		0.00096	0.00096	0.00096	mg/Kg-dry	1	8/1/2016 2:26 PM
Surr: 2-Fluorobiphenyl	107			46-115		%Rec	1	8/1/2016 2:26 PM
Surr: Nitrobenzene-d5	120			44-125		%Rec	1	8/1/2016 2:26 PM
Surr: Terphenyl-d14	114			58-133		%Rec	1	8/1/2016 2:26 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	31		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606601-002	**Matrix:**	Soil
Client Sample ID:	H1-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0089	U	0.0040	0.0089	0.044	mg/Kg-dry	1	7/21/2016 4:09 AM
Aroclor 1221	0.0089	U	0.0040	0.0089	0.044	mg/Kg-dry	1	7/21/2016 4:09 AM
Aroclor 1232	0.0089	U	0.0060	0.0089	0.044	mg/Kg-dry	1	7/21/2016 4:09 AM
Aroclor 1242	0.0089	U	0.0050	0.0089	0.044	mg/Kg-dry	1	7/21/2016 4:09 AM
Aroclor 1248	0.0089	U	0.0047	0.0089	0.044	mg/Kg-dry	1	7/21/2016 4:09 AM
Aroclor 1254	0.0089	U	0.0057	0.0089	0.044	mg/Kg-dry	1	7/21/2016 4:09 AM
Aroclor 1260	0.0089	U	0.0039	0.0089	0.044	mg/Kg-dry	1	7/21/2016 4:09 AM
Aroclor 1262	0.0089	U	0.0039	0.0089	0.044	mg/Kg-dry	1	7/21/2016 4:09 AM
Aroclor 1268	0.0089	U	0.0033	0.0089	0.044	mg/Kg-dry	1	7/21/2016 4:09 AM
Surr: Tetrachloro-m-xylene	68.4			44-130		%Rec	1	7/21/2016 4:09 AM
Surr: Decachlorobiphenyl	82.3			60-125		%Rec	1	7/21/2016 4:09 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,100		66	180	440	mg/Kg-dry	100	7/28/2016 2:08 PM
Antimony	1.1		0.33	0.44	0.88	mg/Kg-dry	1	7/28/2016 1:08 PM
Arsenic	0.88	U	0.64	0.88	1.8	mg/Kg-dry	1	7/28/2016 1:08 PM
Barium	22		0.26	4.4	8.8	mg/Kg-dry	1	7/28/2016 1:08 PM
Beryllium	0.025	J	0.011	0.044	0.22	mg/Kg-dry	1	7/28/2016 1:08 PM
Cadmium	0.045	J	0.029	0.044	0.22	mg/Kg-dry	1	7/28/2016 1:08 PM
Calcium	790		2.6	8.8	44	mg/Kg-dry	1	7/28/2016 1:08 PM
Chromium	8.2		0.072	0.35	0.44	mg/Kg-dry	1	8/2/2016 12:43 PM
Cobalt	1.1		0.079	0.22	0.88	mg/Kg-dry	1	7/28/2016 1:08 PM
Copper	7.3		0.36	0.88	4.4	mg/Kg-dry	1	7/28/2016 1:08 PM
Iron	2,900		270	440	1,300	mg/Kg-dry	100	7/28/2016 2:08 PM
Lead	2.9	J	0.55	0.88	4.4	mg/Kg-dry	1	7/28/2016 1:08 PM
Magnesium	640		3.1	4.4	44	mg/Kg-dry	1	7/28/2016 1:08 PM
Manganese	49		0.16	0.22	0.88	mg/Kg-dry	1	7/28/2016 1:08 PM
Nickel	2.4	J	0.25	0.88	4.4	mg/Kg-dry	1	7/28/2016 1:08 PM
Potassium	410		2.0	8.8	18	mg/Kg-dry	1	7/28/2016 1:08 PM
Selenium	1.3	U	1.0	1.3	1.8	mg/Kg-dry	1	7/28/2016 1:08 PM
Silver	0.22	U	0.072	0.22	0.88	mg/Kg-dry	1	7/28/2016 1:08 PM
Sodium	69		1.8	4.4	44	mg/Kg-dry	1	7/28/2016 1:08 PM
Vanadium	7.7		0.11	0.88	2.2	mg/Kg-dry	1	7/28/2016 1:08 PM
Zinc	12		0.34	0.44	4.4	mg/Kg-dry	1	8/2/2016 12:43 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.050	J	0.044	0.045	0.18	mg/Kg-dry	10	7/15/2016 2:00 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.022	U	0.013	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
1,2-Dichlorobenzene	0.022	U	0.0096	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
1,3-Dichlorobenzene	0.022	U	0.0093	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
1,4-Dichlorobenzene	0.022	U	0.0072	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
2,4,5-Trichlorophenol	0.045	U	0.022	0.045	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 8:50:00 AM
Project: Camp Hero
Lab ID: 1606601-002 **Matrix:** Soil
Client Sample ID: H1-SS01-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.045	UY	0.025	0.045	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
2,4-Dichlorophenol	0.11	U	0.038	0.11	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
2,4-Dimethyl phenol	0.11	U	0.043	0.11	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
2,4-Dinitrophenol	0.22	UY	0.13	0.22	1.1	mg/Kg-dry	1	7/8/2016 9:34 PM
2,4-Dinitrotoluene	0.022	UY	0.019	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
2,6-Dinitrotoluene	0.022	U	0.021	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
2-Chloronaphthalene	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
2-Chlorophenol	0.11	U	0.047	0.11	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
2-Methylphenol (o-Cresol)	0.11	U	0.048	0.11	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
2-Nitroaniline	0.022	UY	0.011	0.022	0.43	mg/Kg-dry	1	7/8/2016 9:34 PM
2-Nitrophenol	0.11	UY	0.055	0.11	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
3,3´-Dichlorobenzidine	0.89	U	0.57	0.89	1.3	mg/Kg-dry	1	7/8/2016 9:34 PM
3-Nitroaniline	0.022	UY	0.016	0.022	0.43	mg/Kg-dry	1	7/8/2016 9:34 PM
3/4-Methylphenol [m/p-Cresol]	0.11	U	0.080	0.11	0.43	mg/Kg-dry	1	7/8/2016 9:34 PM
4,6-Dinitro-2-methylphenol	0.11	UY	0.064	0.11	0.43	mg/Kg-dry	1	7/8/2016 9:34 PM
4-Bromophenyl phenyl ether	0.11	U	0.057	0.11	0.27	mg/Kg-dry	1	7/8/2016 9:34 PM
4-Chloro-3-methylphenol	0.045	U	0.023	0.045	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
4-Chloroaniline [p-Chloroaniline]	0.11	U	0.034	0.11	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
4-Chlorophenyl phenyl ether	0.022	U	0.014	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
4-Nitroaniline	0.11	UY	0.032	0.11	0.43	mg/Kg-dry	1	7/8/2016 9:34 PM
4-Nitrophenol	0.45	UY	0.32	0.45	1.1	mg/Kg-dry	1	7/8/2016 9:34 PM
Benzoic acid	0.24	JQ	0.18	0.45	1.3	mg/Kg-dry	1	7/8/2016 9:34 PM
Benzyl alcohol	0.022	U	0.011	0.022	0.88	mg/Kg-dry	1	7/8/2016 9:34 PM
Bis(2-chloroethoxy) methane	0.022	U	0.0093	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Bis(2-chloroethyl) ether	0.045	U	0.024	0.045	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Bis(2-chloroisopropyl)ether	0.022	UZ	0.010	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Bis(2-ethylhexyl) phthalate	0.045	U	0.039	0.045	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Butyl benzyl phthalate	0.045	U	0.026	0.045	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Carbazole	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Di-n-butyl phthalate	0.045	U	0.024	0.045	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Di-n-octyl phthalate	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Dibenzofuran	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Diethyl phthalate	0.022	U	0.016	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Dimethyl phthalate	0.022	U	0.015	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Hexachlorobenzene	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Hexachlorobutadiene	0.022	U	0.020	0.022	0.067	mg/Kg-dry	1	7/8/2016 9:34 PM
Hexachloroethane	0.022	U	0.010	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Isophorone	0.022	U	0.0093	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
N-Nitroso-di-n-propylamine	0.022	U	0.012	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
N-Nitrosodimethylamine	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
N-Nitrosodiphenylamine	0.022	U	0.011	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Nitrobenzene	0.022	U	0.014	0.022	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Pentachlorophenol	0.11	U	0.084	0.11	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Phenol	0.11	U	0.048	0.11	0.21	mg/Kg-dry	1	7/8/2016 9:34 PM
Surr: 2,4,6-Tribromophenol	71.6			39-132		%Rec	1	7/8/2016 9:34 PM
Surr: 2-Fluorobiphenyl	63.3			44-115		%Rec	1	7/8/2016 9:34 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606601-002	**Matrix:**	Soil
Client Sample ID:	H1-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	56.6			35-115		%Rec	1	7/8/2016 9:34 PM
Surr: Nitrobenzene-d5	65.2			37-122		%Rec	1	7/8/2016 9:34 PM
Surr: Phenol-d5	60.6			33-122		%Rec	1	7/8/2016 9:34 PM
Surr: Terphenyl-d14	62.1			54-127		%Rec	1	7/8/2016 9:34 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00091	UQ	0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
2-Methylnaphthalene	0.00091	U	0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Acenaphthene	0.00091	U	0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Acenaphthylene	0.00091	U	0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Anthracene	0.00091	U	0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Benzo(a)anthracene	0.0019		0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Benzo(a)pyrene	0.30		0.018	0.018	0.018	mg/Kg-dry	20	8/3/2016 6:08 PM
Benzo(b)fluoranthene	0.0030		0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Benzo(g,h,i)perylene	0.0016		0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Benzo(k)fluoranthene	0.0020		0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Chrysene	0.0021		0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Dibenzo(a,h)anthracene	0.00091	U	0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Fluoranthene	0.0051		0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Fluorene	0.00091	U	0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Indeno(1,2,3-cd)pyrene	0.0016		0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Naphthalene	0.00091	U	0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Phenanthrene	0.0025		0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Pyrene	0.0041		0.00091	0.00091	0.00091	mg/Kg-dry	1	8/1/2016 2:54 PM
Surr: 2-Fluorobiphenyl	114			46-115		%Rec	1	8/1/2016 2:54 PM
Surr: Nitrobenzene-d5	130	Q		44-125		%Rec	1	8/1/2016 2:54 PM
Surr: Terphenyl-d14	124			58-133		%Rec	1	8/1/2016 2:54 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	26		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606601-003	**Matrix:**	Soil
Client Sample ID:	H1-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0091	U	0.0041	0.0091	0.045	mg/Kg-dry	1	7/21/2016 4:33 AM
Aroclor 1221	0.0091	U	0.0041	0.0091	0.045	mg/Kg-dry	1	7/21/2016 4:33 AM
Aroclor 1232	0.0091	U	0.0062	0.0091	0.045	mg/Kg-dry	1	7/21/2016 4:33 AM
Aroclor 1242	0.0091	U	0.0051	0.0091	0.045	mg/Kg-dry	1	7/21/2016 4:33 AM
Aroclor 1248	0.0091	U	0.0048	0.0091	0.045	mg/Kg-dry	1	7/21/2016 4:33 AM
Aroclor 1254	0.0091	U	0.0058	0.0091	0.045	mg/Kg-dry	1	7/21/2016 4:33 AM
Aroclor 1260	0.0091	U	0.0040	0.0091	0.045	mg/Kg-dry	1	7/21/2016 4:33 AM
Aroclor 1262	0.0091	U	0.0040	0.0091	0.045	mg/Kg-dry	1	7/21/2016 4:33 AM
Aroclor 1268	0.0091	U	0.0033	0.0091	0.045	mg/Kg-dry	1	7/21/2016 4:33 AM
Surr: Tetrachloro-m-xylene	56.1			44-130		%Rec	1	7/21/2016 4:33 AM
Surr: Decachlorobiphenyl	69.7			60-125		%Rec	1	7/21/2016 4:33 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	3,700		68	180	450	mg/Kg-dry	100	7/21/2016 5:55 PM
Antimony	1.3		0.34	0.45	0.90	mg/Kg-dry	1	7/21/2016 3:38 PM
Arsenic	0.86	J	0.66	0.90	1.8	mg/Kg-dry	1	7/21/2016 3:38 PM
Barium	20		0.27	4.5	9.0	mg/Kg-dry	1	7/21/2016 3:38 PM
Beryllium	0.85		0.011	0.045	0.23	mg/Kg-dry	1	7/21/2016 3:38 PM
Cadmium	0.69		0.030	0.045	0.23	mg/Kg-dry	1	7/21/2016 3:38 PM
Calcium	720		2.7	9.0	45	mg/Kg-dry	1	7/21/2016 3:38 PM
Chromium	5.5		0.074	0.36	0.45	mg/Kg-dry	1	7/25/2016 4:19 PM
Cobalt	1.4		0.081	0.23	0.90	mg/Kg-dry	1	7/21/2016 3:38 PM
Copper	6.0		0.38	0.90	4.5	mg/Kg-dry	1	7/21/2016 3:38 PM
Iron	1,700		2.8	4.5	14	mg/Kg-dry	1	7/21/2016 3:38 PM
Lead	3.6	J	0.56	0.90	4.5	mg/Kg-dry	1	7/21/2016 3:38 PM
Magnesium	430		3.2	4.5	45	mg/Kg-dry	1	7/21/2016 3:38 PM
Manganese	49		0.17	0.23	0.90	mg/Kg-dry	1	7/21/2016 3:38 PM
Nickel	2.8	J	0.26	0.90	4.5	mg/Kg-dry	1	7/21/2016 3:38 PM
Potassium	340		2.1	9.0	18	mg/Kg-dry	1	7/21/2016 3:38 PM
Selenium	1.4	U	1.1	1.4	1.8	mg/Kg-dry	1	7/21/2016 3:38 PM
Silver	0.63	J	0.074	0.23	0.90	mg/Kg-dry	1	7/21/2016 3:38 PM
Sodium	100		1.8	4.5	45	mg/Kg-dry	1	7/21/2016 3:38 PM
Vanadium	6.4		0.11	0.90	2.3	mg/Kg-dry	1	7/21/2016 3:38 PM
Zinc	24		0.35	0.45	4.5	mg/Kg-dry	1	7/21/2016 3:38 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.046	UG	0.044	0.046	0.18	mg/Kg-dry	10	7/25/2016 7:37 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.023	U	0.013	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
1,2-Dichlorobenzene	0.023	U	0.0099	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
1,3-Dichlorobenzene	0.023	U	0.0095	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
1,4-Dichlorobenzene	0.023	U	0.0074	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
2,4,5-Trichlorophenol	0.046	U	0.023	0.046	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 9:00:00 AM
Project: Camp Hero
Lab ID: 1606601-003 **Matrix:** Soil
Client Sample ID: H1-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.046	UY	0.026	0.046	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
2,4-Dichlorophenol	0.11	U	0.039	0.11	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
2,4-Dimethyl phenol	0.11	U	0.044	0.11	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
2,4-Dinitrophenol	0.23	UY	0.13	0.23	1.1	mg/Kg-dry	1	7/8/2016 9:59 PM
2,4-Dinitrotoluene	0.023	UY	0.020	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
2,6-Dinitrotoluene	0.023	U	0.022	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
2-Chloronaphthalene	0.023	U	0.015	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
2-Chlorophenol	0.11	U	0.048	0.11	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
2-Methylphenol (o-Cresol)	0.11	U	0.049	0.11	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
2-Nitroaniline	0.023	UY	0.011	0.023	0.44	mg/Kg-dry	1	7/8/2016 9:59 PM
2-Nitrophenol	0.11	UY	0.057	0.11	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
3,3´-Dichlorobenzidine	0.92	U	0.59	0.92	1.4	mg/Kg-dry	1	7/8/2016 9:59 PM
3-Nitroaniline	0.023	UY	0.016	0.023	0.44	mg/Kg-dry	1	7/8/2016 9:59 PM
3/4-Methylphenol [m/p-Cresol]	0.11	U	0.082	0.11	0.44	mg/Kg-dry	1	7/8/2016 9:59 PM
4,6-Dinitro-2-methylphenol	0.11	UY	0.066	0.11	0.44	mg/Kg-dry	1	7/8/2016 9:59 PM
4-Bromophenyl phenyl ether	0.11	U	0.059	0.11	0.28	mg/Kg-dry	1	7/8/2016 9:59 PM
4-Chloro-3-methylphenol	0.046	U	0.024	0.046	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
4-Chloroaniline [p-Chloroaniline]	0.11	U	0.035	0.11	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
4-Chlorophenyl phenyl ether	0.023	U	0.014	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
4-Nitroaniline	0.11	UY	0.033	0.11	0.44	mg/Kg-dry	1	7/8/2016 9:59 PM
4-Nitrophenol	0.46	UY	0.33	0.46	1.1	mg/Kg-dry	1	7/8/2016 9:59 PM
Benzoic acid	0.28	JQ	0.19	0.46	1.4	mg/Kg-dry	1	7/8/2016 9:59 PM
Benzyl alcohol	0.023	U	0.011	0.023	0.91	mg/Kg-dry	1	7/8/2016 9:59 PM
Bis(2-chloroethoxy) methane	0.023	U	0.0096	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Bis(2-chloroethyl) ether	0.046	U	0.025	0.046	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Bis(2-chloroisopropyl)ether	0.023	UZ	0.011	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Bis(2-ethylhexyl) phthalate	0.046	U	0.041	0.046	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Butyl benzyl phthalate	0.046	U	0.027	0.046	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Carbazole	0.023	U	0.016	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Di-n-butyl phthalate	0.046	U	0.025	0.046	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Di-n-octyl phthalate	0.023	U	0.016	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Dibenzofuran	0.023	U	0.012	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Diethyl phthalate	0.023	U	0.017	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Dimethyl phthalate	0.023	U	0.015	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Hexachlorobenzene	0.023	U	0.012	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Hexachlorobutadiene	0.023	U	0.021	0.023	0.069	mg/Kg-dry	1	7/8/2016 9:59 PM
Hexachloroethane	0.023	U	0.011	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Isophorone	0.023	U	0.0095	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
N-Nitroso-di-n-propylamine	0.023	U	0.013	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
N-Nitrosodimethylamine	0.023	U	0.011	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
N-Nitrosodiphenylamine	0.023	U	0.011	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Nitrobenzene	0.023	U	0.014	0.023	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Pentachlorophenol	0.11	U	0.086	0.11	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Phenol	0.11	U	0.049	0.11	0.22	mg/Kg-dry	1	7/8/2016 9:59 PM
Surr: 2,4,6-Tribromophenol	60.3			39-132		%Rec	1	7/8/2016 9:59 PM
Surr: 2-Fluorobiphenyl	51.4			44-115		%Rec	1	7/8/2016 9:59 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606601-003	**Matrix:**	Soil
Client Sample ID:	H1-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	42.2			35-115		%Rec	1	7/8/2016 9:59 PM
Surr: Nitrobenzene-d5	52.2			37-122		%Rec	1	7/8/2016 9:59 PM
Surr: Phenol-d5	47.5			33-122		%Rec	1	7/8/2016 9:59 PM
Surr: Terphenyl-d14	53.0	Q		54-127		%Rec	1	7/8/2016 9:59 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00092	UQ	0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
2-Methylnaphthalene	0.00092	U	0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Acenaphthene	0.00092	U	0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Acenaphthylene	0.00092	U	0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Anthracene	0.00092	U	0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Benzo(a)anthracene	0.0013		0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Benzo(a)pyrene	0.56		0.046	0.046	0.046	mg/Kg-dry	50	8/3/2016 6:35 PM
Benzo(b)fluoranthene	0.00092	U	0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Benzo(g,h,i)perylene	0.0018		0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Benzo(k)fluoranthene	0.00092	U	0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Chrysene	0.0013		0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Dibenzo(a,h)anthracene	0.00092	U	0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Fluoranthene	0.0031		0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Fluorene	0.00092	U	0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Indeno(1,2,3-cd)pyrene	0.0018		0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Naphthalene	0.00092	U	0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Phenanthrene	0.0014		0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Pyrene	0.0024		0.00092	0.00092	0.00092	mg/Kg-dry	1	8/1/2016 3:51 PM
Surr: 2-Fluorobiphenyl	117	Q		46-115		%Rec	1	8/1/2016 3:51 PM
Surr: Nitrobenzene-d5	133	Q		44-125		%Rec	1	8/1/2016 3:51 PM
Surr: Terphenyl-d14	139	Q		58-133		%Rec	1	8/1/2016 3:51 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	28		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606601-004	**Matrix:**	Soil
Client Sample ID:	H1-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	7/23/2016 12:24 AM
Aroclor 1221	0.0081	U	0.0036	0.0081	0.040	mg/Kg-dry	1	7/23/2016 12:24 AM
Aroclor 1232	0.0081	U	0.0054	0.0081	0.040	mg/Kg-dry	1	7/23/2016 12:24 AM
Aroclor 1242	0.0081	U	0.0045	0.0081	0.040	mg/Kg-dry	1	7/23/2016 12:24 AM
Aroclor 1248	0.0081	U	0.0042	0.0081	0.040	mg/Kg-dry	1	7/23/2016 12:24 AM
Aroclor 1254	0.0081	U	0.0051	0.0081	0.040	mg/Kg-dry	1	7/23/2016 12:24 AM
Aroclor 1260	0.0081	U	0.0035	0.0081	0.040	mg/Kg-dry	1	7/23/2016 12:24 AM
Aroclor 1262	0.0081	U	0.0035	0.0081	0.040	mg/Kg-dry	1	7/23/2016 12:24 AM
Aroclor 1268	0.0081	U	0.0030	0.0081	0.040	mg/Kg-dry	1	7/23/2016 12:24 AM
Surr: Tetrachloro-m-xylene	78.7			44-130		%Rec	1	7/23/2016 12:24 AM
Surr: Decachlorobiphenyl	87.2			60-125		%Rec	1	7/23/2016 12:24 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	7,500		58	150	390	mg/Kg-dry	100	7/21/2016 5:57 PM
Antimony	2.3		0.29	0.39	0.77	mg/Kg-dry	1	7/21/2016 3:40 PM
Arsenic	0.77	U	0.56	0.77	1.5	mg/Kg-dry	1	7/21/2016 3:40 PM
Barium	58		0.23	3.9	7.7	mg/Kg-dry	1	7/21/2016 3:40 PM
Beryllium	0.47		0.0098	0.039	0.19	mg/Kg-dry	1	7/21/2016 3:40 PM
Cadmium	0.41		0.025	0.039	0.19	mg/Kg-dry	1	7/21/2016 3:40 PM
Calcium	1,300		2.3	7.7	39	mg/Kg-dry	1	7/21/2016 3:40 PM
Chromium	13		0.063	0.31	0.39	mg/Kg-dry	1	7/25/2016 4:20 PM
Cobalt	2.3		0.069	0.19	0.77	mg/Kg-dry	1	7/21/2016 3:40 PM
Copper	15		0.32	0.77	3.9	mg/Kg-dry	1	7/21/2016 3:40 PM
Iron	5,500		24	39	120	mg/Kg-dry	10	7/21/2016 4:03 PM
Lead	3.3	J	0.48	0.77	3.9	mg/Kg-dry	1	7/21/2016 3:40 PM
Magnesium	1,800		27	39	390	mg/Kg-dry	10	7/21/2016 4:03 PM
Manganese	97		0.14	0.19	0.77	mg/Kg-dry	1	7/21/2016 3:40 PM
Nickel	7.4		0.22	0.77	3.9	mg/Kg-dry	1	7/21/2016 3:40 PM
Potassium	680		1.8	7.7	15	mg/Kg-dry	1	7/21/2016 3:40 PM
Selenium	1.2	U	0.90	1.2	1.5	mg/Kg-dry	1	7/21/2016 3:40 PM
Silver	0.31	J	0.063	0.19	0.77	mg/Kg-dry	1	7/21/2016 3:40 PM
Sodium	120		1.6	3.9	39	mg/Kg-dry	1	7/21/2016 3:40 PM
Vanadium	10		0.098	0.77	1.9	mg/Kg-dry	1	7/21/2016 3:40 PM
Zinc	25		0.30	0.39	3.9	mg/Kg-dry	1	7/21/2016 3:40 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.057	JG	0.038	0.040	0.16	mg/Kg-dry	10	7/25/2016 7:38 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
1,2-Dichlorobenzene	0.020	U	0.0086	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
1,3-Dichlorobenzene	0.020	U	0.0083	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
1,4-Dichlorobenzene	0.020	U	0.0064	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
2,4,5-Trichlorophenol	0.040	U	0.020	0.040	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 9:05:00 AM
Project: Camp Hero
Lab ID: 1606601-004 **Matrix:** Soil
Client Sample ID: H1-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.040	UY	0.022	0.040	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
2,4-Dichlorophenol	0.10	U	0.034	0.10	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
2,4-Dimethyl phenol	0.10	U	0.038	0.10	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
2,4-Dinitrophenol	0.20	UY	0.11	0.20	0.99	mg/Kg-dry	1	7/8/2016 10:24 PM
2,4-Dinitrotoluene	0.020	UY	0.017	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
2,6-Dinitrotoluene	0.020	U	0.019	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
2-Chloronaphthalene	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
2-Chlorophenol	0.10	U	0.042	0.10	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
2-Methylphenol (o-Cresol)	0.10	U	0.043	0.10	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
2-Nitroaniline	0.020	UY	0.0097	0.020	0.38	mg/Kg-dry	1	7/8/2016 10:24 PM
2-Nitrophenol	0.10	UY	0.049	0.10	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
3,3´-Dichlorobenzidine	0.80	U	0.51	0.80	1.2	mg/Kg-dry	1	7/8/2016 10:24 PM
3-Nitroaniline	0.020	UY	0.014	0.020	0.38	mg/Kg-dry	1	7/8/2016 10:24 PM
3/4-Methylphenol [m/p-Cresol]	0.10	U	0.071	0.10	0.38	mg/Kg-dry	1	7/8/2016 10:24 PM
4,6-Dinitro-2-methylphenol	0.10	UY	0.057	0.10	0.38	mg/Kg-dry	1	7/8/2016 10:24 PM
4-Bromophenyl phenyl ether	0.10	U	0.051	0.10	0.24	mg/Kg-dry	1	7/8/2016 10:24 PM
4-Chloro-3-methylphenol	0.040	U	0.021	0.040	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
4-Chloroaniline [p-Chloroaniline]	0.10	U	0.030	0.10	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
4-Chlorophenyl phenyl ether	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
4-Nitroaniline	0.10	UY	0.029	0.10	0.38	mg/Kg-dry	1	7/8/2016 10:24 PM
4-Nitrophenol	0.40	UY	0.29	0.40	0.99	mg/Kg-dry	1	7/8/2016 10:24 PM
Benzoic acid	0.40	UQ	0.16	0.40	1.2	mg/Kg-dry	1	7/8/2016 10:24 PM
Benzyl alcohol	0.020	U	0.0096	0.020	0.79	mg/Kg-dry	1	7/8/2016 10:24 PM
Bis(2-chloroethoxy) methane	0.020	U	0.0083	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Bis(2-chloroethyl) ether	0.040	U	0.021	0.040	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Bis(2-chloroisopropyl)ether	0.020	UZ	0.0091	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Bis(2-ethylhexyl) phthalate	0.040	U	0.035	0.040	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Butyl benzyl phthalate	0.040	U	0.024	0.040	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Carbazole	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Di-n-butyl phthalate	0.040	U	0.021	0.040	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Di-n-octyl phthalate	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Dibenzofuran	0.020	U	0.010	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Diethyl phthalate	0.020	U	0.015	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Dimethyl phthalate	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Hexachlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Hexachlorobutadiene	0.020	U	0.018	0.020	0.060	mg/Kg-dry	1	7/8/2016 10:24 PM
Hexachloroethane	0.020	U	0.0092	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Isophorone	0.020	U	0.0083	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
N-Nitroso-di-n-propylamine	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
N-Nitrosodimethylamine	0.020	U	0.0097	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
N-Nitrosodiphenylamine	0.020	U	0.0096	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Nitrobenzene	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Pentachlorophenol	0.10	U	0.075	0.10	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Phenol	0.10	U	0.043	0.10	0.19	mg/Kg-dry	1	7/8/2016 10:24 PM
Surr: 2,4,6-Tribromophenol	66.6			39-132		%Rec	1	7/8/2016 10:24 PM
Surr: 2-Fluorobiphenyl	58.8			44-115		%Rec	1	7/8/2016 10:24 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606601-004	**Matrix:**	Soil
Client Sample ID:	H1-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	55.6			35-115		%Rec	1	7/8/2016 10:24 PM
Surr: Nitrobenzene-d5	64.5			37-122		%Rec	1	7/8/2016 10:24 PM
Surr: Phenol-d5	59.3			33-122		%Rec	1	7/8/2016 10:24 PM
Surr: Terphenyl-d14	61.6			54-127		%Rec	1	7/8/2016 10:24 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00079	UQ	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
2-Methylnaphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Acenaphthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Acenaphthylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Benzo(a)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Benzo(a)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Benzo(b)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Benzo(g,h,i)perylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Benzo(k)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Chrysene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Dibenzo(a,h)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Fluorene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Indeno(1,2,3-cd)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Naphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Phenanthrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/1/2016 4:19 PM
Surr: 2-Fluorobiphenyl	108			46-115		%Rec	1	8/1/2016 4:19 PM
Surr: Nitrobenzene-d5	122			44-125		%Rec	1	8/1/2016 4:19 PM
Surr: Terphenyl-d14	121			58-133		%Rec	1	8/1/2016 4:19 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606601-005	**Matrix:**	Soil
Client Sample ID:	H2-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/21/2016 6:11 AM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/21/2016 6:11 AM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/21/2016 6:11 AM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	7/21/2016 6:11 AM
Aroclor 1248	0.0073	U	0.0038	0.0073	0.036	mg/Kg-dry	1	7/21/2016 6:11 AM
Aroclor 1254	0.0073	U	0.0046	0.0073	0.036	mg/Kg-dry	1	7/21/2016 6:11 AM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/21/2016 6:11 AM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/21/2016 6:11 AM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/21/2016 6:11 AM
Surr: Tetrachloro-m-xylene	43.0	Q		44-130		%Rec	1	7/21/2016 6:11 AM
Surr: Decachlorobiphenyl	66.7			60-125		%Rec	1	7/21/2016 6:11 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,900		55	150	370	mg/Kg-dry	100	7/28/2016 2:10 PM
Antimony	3.5		0.28	0.37	0.73	mg/Kg-dry	1	7/28/2016 1:10 PM
Arsenic	1.1	J	0.53	0.73	1.5	mg/Kg-dry	1	7/28/2016 1:10 PM
Barium	30		0.22	3.7	7.3	mg/Kg-dry	1	7/28/2016 1:10 PM
Beryllium	0.083	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/28/2016 1:10 PM
Cadmium	0.13	J	0.024	0.037	0.18	mg/Kg-dry	1	7/28/2016 1:10 PM
Calcium	470		2.2	7.3	37	mg/Kg-dry	1	7/28/2016 1:10 PM
Chromium	12		0.060	0.29	0.37	mg/Kg-dry	1	8/2/2016 12:44 PM
Cobalt	3.5		0.066	0.18	0.73	mg/Kg-dry	1	7/28/2016 1:10 PM
Copper	34		0.30	0.73	3.7	mg/Kg-dry	1	7/28/2016 1:10 PM
Iron	11,000		230	370	1,100	mg/Kg-dry	100	7/28/2016 2:10 PM
Lead	6.4		0.46	0.73	3.7	mg/Kg-dry	1	7/28/2016 1:10 PM
Magnesium	1,700		2.6	3.7	37	mg/Kg-dry	1	7/28/2016 1:10 PM
Manganese	170		0.14	0.18	0.73	mg/Kg-dry	1	7/28/2016 1:10 PM
Nickel	7.0		0.21	0.73	3.7	mg/Kg-dry	1	7/28/2016 1:10 PM
Potassium	1,200		1.7	7.3	15	mg/Kg-dry	1	7/28/2016 1:10 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/28/2016 1:10 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/28/2016 1:10 PM
Sodium	68		1.5	3.7	37	mg/Kg-dry	1	7/28/2016 1:10 PM
Vanadium	18		0.093	0.73	1.8	mg/Kg-dry	1	7/28/2016 1:10 PM
Zinc	210		2.8	3.7	37	mg/Kg-dry	10	8/2/2016 1:27 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.082	J	0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 2:01 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
1,2-Dichlorobenzene	0.018	U	0.0077	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
1,3-Dichlorobenzene	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
1,4-Dichlorobenzene	0.018	U	0.0057	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 9:40:00 AM
Project: Camp Hero
Lab ID: 1606601-005 **Matrix:** Soil
Client Sample ID: H2-SS01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	UY	0.020	0.036	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
2,4-Dichlorophenol	0.089	U	0.031	0.089	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
2,4-Dimethyl phenol	0.089	U	0.034	0.089	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
2,4-Dinitrophenol	0.18	UY	0.10	0.18	0.89	mg/Kg-dry	1	7/8/2016 10:49 PM
2,4-Dinitrotoluene	0.018	UY	0.016	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
2-Chlorophenol	0.089	U	0.037	0.089	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
2-Methylphenol (o-Cresol)	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
2-Nitroaniline	0.018	UY	0.0087	0.018	0.34	mg/Kg-dry	1	7/8/2016 10:49 PM
2-Nitrophenol	0.089	UY	0.044	0.089	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
3,3´-Dichlorobenzidine	0.72	U	0.46	0.72	1.1	mg/Kg-dry	1	7/8/2016 10:49 PM
3-Nitroaniline	0.018	UY	0.013	0.018	0.34	mg/Kg-dry	1	7/8/2016 10:49 PM
3/4-Methylphenol [m/p-Cresol]	0.089	U	0.064	0.089	0.34	mg/Kg-dry	1	7/8/2016 10:49 PM
4,6-Dinitro-2-methylphenol	0.089	UY	0.051	0.089	0.34	mg/Kg-dry	1	7/8/2016 10:49 PM
4-Bromophenyl phenyl ether	0.089	U	0.046	0.089	0.21	mg/Kg-dry	1	7/8/2016 10:49 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
4-Chloroaniline [p-Chloroaniline]	0.089	U	0.027	0.089	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
4-Nitroaniline	0.089	UY	0.026	0.089	0.34	mg/Kg-dry	1	7/8/2016 10:49 PM
4-Nitrophenol	0.36	UY	0.26	0.36	0.89	mg/Kg-dry	1	7/8/2016 10:49 PM
Benzoic acid	0.36	UQ	0.14	0.36	1.1	mg/Kg-dry	1	7/8/2016 10:49 PM
Benzyl alcohol	0.018	U	0.0086	0.018	0.71	mg/Kg-dry	1	7/8/2016 10:49 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0082	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Dibenzofuran	0.018	U	0.0091	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Hexachlorobenzene	0.018	U	0.0097	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.054	mg/Kg-dry	1	7/8/2016 10:49 PM
Hexachloroethane	0.018	U	0.0082	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Isophorone	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
N-Nitroso-di-n-propylamine	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
N-Nitrosodimethylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
N-Nitrosodiphenylamine	0.018	U	0.0086	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Pentachlorophenol	0.089	U	0.067	0.089	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Phenol	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	7/8/2016 10:49 PM
Surr: 2,4,6-Tribromophenol	54.8			39-132		%Rec	1	7/8/2016 10:49 PM
Surr: 2-Fluorobiphenyl	53.7			44-115		%Rec	1	7/8/2016 10:49 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:40:00 AM
Project:	Camp Hero		
Lab ID:	1606601-005	**Matrix:**	Soil
Client Sample ID:	H2-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	48.3			35-115		%Rec	1	7/8/2016 10:49 PM
Surr: Nitrobenzene-d5	56.5			37-122		%Rec	1	7/8/2016 10:49 PM
Surr: Phenol-d5	50.8			33-122		%Rec	1	7/8/2016 10:49 PM
Surr: Terphenyl-d14	53.4	Q		54-127		%Rec	1	7/8/2016 10:49 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00078		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
2-Methylnaphthalene	0.0011		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Anthracene	0.00090		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Benzo(a)anthracene	0.0064		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Benzo(a)pyrene	0.0057		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Benzo(b)fluoranthene	0.0093		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Benzo(g,h,i)perylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Benzo(k)fluoranthene	0.0035		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Chrysene	0.0059		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Fluoranthene	0.012		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Fluorene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Indeno(1,2,3-cd)pyrene	0.0041		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Naphthalene	0.00089		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Phenanthrene	0.0052		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Pyrene	0.010		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/2/2016 1:57 PM
Surr: 2-Fluorobiphenyl	108			46-115		%Rec	1	8/2/2016 1:57 PM
Surr: Nitrobenzene-d5	119			44-125		%Rec	1	8/2/2016 1:57 PM
Surr: Terphenyl-d14	120			58-133		%Rec	1	8/2/2016 1:57 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.6		1.0	1.0	1.0	wt%	1	6/20/2016 3:15 PM

RTI Laboratories - Analytical Report

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:50:00 AM
Project:	Camp Hero		
Lab ID:	1606601-006	**Matrix:**	Soil
Client Sample ID:	H2-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:35 AM
Aroclor 1221	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:35 AM
Aroclor 1232	0.0075	U	0.0050	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:35 AM
Aroclor 1242	0.0075	U	0.0042	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:35 AM
Aroclor 1248	0.0075	U	0.0039	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:35 AM
Aroclor 1254	0.0075	U	0.0047	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:35 AM
Aroclor 1260	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:35 AM
Aroclor 1262	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:35 AM
Aroclor 1268	0.0075	U	0.0027	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:35 AM
Surr: Tetrachloro-m-xylene	68.1			44-130		%Rec	1	7/21/2016 6:35 AM
Surr: Decachlorobiphenyl	82.8			60-125		%Rec	1	7/21/2016 6:35 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,300		55	150	370	mg/Kg-dry	100	7/28/2016 2:11 PM
Antimony	2.6		0.27	0.37	0.73	mg/Kg-dry	1	7/28/2016 1:11 PM
Arsenic	0.84	J	0.53	0.73	1.5	mg/Kg-dry	1	7/28/2016 1:11 PM
Barium	25		0.22	3.7	7.3	mg/Kg-dry	1	7/28/2016 1:11 PM
Beryllium	0.080	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/28/2016 1:11 PM
Cadmium	0.090	J	0.024	0.037	0.18	mg/Kg-dry	1	7/28/2016 1:11 PM
Calcium	410		2.1	7.3	37	mg/Kg-dry	1	7/28/2016 1:11 PM
Chromium	9.6		0.060	0.29	0.37	mg/Kg-dry	1	8/2/2016 12:46 PM
Cobalt	2.6		0.066	0.18	0.73	mg/Kg-dry	1	7/28/2016 1:11 PM
Copper	31		0.30	0.73	3.7	mg/Kg-dry	1	7/28/2016 1:11 PM
Iron	11,000		230	370	1,100	mg/Kg-dry	100	7/28/2016 2:11 PM
Lead	7.1		0.46	0.73	3.7	mg/Kg-dry	1	7/28/2016 1:11 PM
Magnesium	1,400		2.6	3.7	37	mg/Kg-dry	1	7/28/2016 1:11 PM
Manganese	140		0.13	0.18	0.73	mg/Kg-dry	1	7/28/2016 1:11 PM
Nickel	5.7		0.21	0.73	3.7	mg/Kg-dry	1	7/28/2016 1:11 PM
Potassium	1,000		1.7	7.3	15	mg/Kg-dry	1	7/28/2016 1:11 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/28/2016 1:11 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/28/2016 1:11 PM
Sodium	56		1.5	3.7	37	mg/Kg-dry	1	7/28/2016 1:11 PM
Vanadium	13		0.093	0.73	1.8	mg/Kg-dry	1	7/28/2016 1:11 PM
Zinc	160		0.28	0.37	3.7	mg/Kg-dry	1	8/2/2016 12:46 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.078	J	0.036	0.037	0.15	mg/Kg-dry	10	7/15/2016 2:02 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
1,2-Dichlorobenzene	0.018	U	0.0080	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
1,4-Dichlorobenzene	0.018	U	0.0059	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM

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WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 9:50:00 AM
Project: Camp Hero
Lab ID: 1606601-006 **Matrix:** Soil
Client Sample ID: H2-SS01-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	U	0.021	0.037	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
2,4-Dichlorophenol	0.092	U	0.032	0.092	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
2,4-Dimethyl phenol	0.092	U	0.035	0.092	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.92	mg/Kg-dry	1	8/3/2016 12:45 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
2-Chlorophenol	0.092	U	0.039	0.092	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
2-Methylphenol (o-Cresol)	0.092	U	0.040	0.092	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
2-Nitroaniline	0.018	U	0.0090	0.018	0.35	mg/Kg-dry	1	8/3/2016 12:45 PM
2-Nitrophenol	0.092	U	0.046	0.092	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
3,3´-Dichlorobenzidine	0.74	U	0.47	0.74	1.1	mg/Kg-dry	1	8/3/2016 12:45 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	8/3/2016 12:45 PM
3/4-Methylphenol [m/p-Cresol]	0.092	U	0.066	0.092	0.35	mg/Kg-dry	1	8/3/2016 12:45 PM
4,6-Dinitro-2-methylphenol	0.092	U	0.053	0.092	0.35	mg/Kg-dry	1	8/3/2016 12:45 PM
4-Bromophenyl phenyl ether	0.092	U	0.047	0.092	0.22	mg/Kg-dry	1	8/3/2016 12:45 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
4-Chloroaniline [p-Chloroaniline]	0.092	U	0.028	0.092	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
4-Nitroaniline	0.092	U	0.027	0.092	0.35	mg/Kg-dry	1	8/3/2016 12:45 PM
4-Nitrophenol	0.37	U	0.26	0.37	0.92	mg/Kg-dry	1	8/3/2016 12:45 PM
Benzoic acid	0.37	UY	0.15	0.37	1.1	mg/Kg-dry	1	8/3/2016 12:45 PM
Benzyl alcohol	0.018	U	0.0089	0.018	0.73	mg/Kg-dry	1	8/3/2016 12:45 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0077	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0084	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.033	0.037	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Carbazole	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Di-n-octyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Dibenzofuran	0.018	U	0.0094	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Diethyl phthalate	0.018	U	0.014	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Hexachlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Hexachlorobutadiene	0.018	U	0.017	0.018	0.055	mg/Kg-dry	1	8/3/2016 12:45 PM
Hexachloroethane	0.018	U	0.0085	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Isophorone	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
N-Nitrosodimethylamine	0.018	U	0.0090	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
N-Nitrosodiphenylamine	0.018	U	0.0089	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Nitrobenzene	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Pentachlorophenol	0.092	UY	0.069	0.092	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Phenol	0.092	U	0.040	0.092	0.18	mg/Kg-dry	1	8/3/2016 12:45 PM
Surr: 2,4,6-Tribromophenol	46.4			39-132		%Rec	1	8/3/2016 12:45 PM
Surr: 2-Fluorobiphenyl	53.2			44-115		%Rec	1	8/3/2016 12:45 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:50:00 AM
Project:	Camp Hero		
Lab ID:	1606601-006	**Matrix:**	Soil
Client Sample ID:	H2-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	53.1			35-115		%Rec	1	8/3/2016 12:45 PM
Surr: Nitrobenzene-d5	53.8			37-122		%Rec	1	8/3/2016 12:45 PM
Surr: Phenol-d5	49.3			33-122		%Rec	1	8/3/2016 12:45 PM
Surr: Terphenyl-d14	58.9			54-127		%Rec	1	8/3/2016 12:45 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00099		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
2-Methylnaphthalene	0.0015		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Acenaphthene	0.00087		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Anthracene	0.0020		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Benzo(a)anthracene	0.029		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Benzo(a)pyrene	0.029		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Benzo(b)fluoranthene	0.055		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/2/2016 5:40 PM
Benzo(g,h,i)perylene	0.00092		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Benzo(k)fluoranthene	0.0056		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Chrysene	0.027		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Dibenzo(a,h)anthracene	0.0016		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Fluoranthene	0.032		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Fluorene	0.00094		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Indeno(1,2,3-cd)pyrene	0.020		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Naphthalene	0.0013		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Phenanthrene	0.012		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Pyrene	0.032		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/2/2016 2:25 PM
Surr: 2-Fluorobiphenyl	122	Q		46-115		%Rec	1	8/2/2016 2:25 PM
Surr: Nitrobenzene-d5	138	Q		44-125		%Rec	1	8/2/2016 2:25 PM
Surr: Terphenyl-d14	133			58-133		%Rec	1	8/2/2016 2:25 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:00:00 AM
Project:	Camp Hero		
Lab ID:	1606601-007	**Matrix:**	Soil
Client Sample ID:	H2-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:59 AM
Aroclor 1221	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:59 AM
Aroclor 1232	0.0075	U	0.0051	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:59 AM
Aroclor 1242	0.0075	U	0.0042	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:59 AM
Aroclor 1248	0.0075	U	0.0040	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:59 AM
Aroclor 1254	0.0075	U	0.0048	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:59 AM
Aroclor 1260	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:59 AM
Aroclor 1262	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:59 AM
Aroclor 1268	0.0075	U	0.0027	0.0075	0.037	mg/Kg-dry	1	7/21/2016 6:59 AM
Surr: Tetrachloro-m-xylene	68.2			44-130		%Rec	1	7/21/2016 6:59 AM
Surr: Decachlorobiphenyl	75.8			60-125		%Rec	1	7/21/2016 6:59 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	10,000		57	150	380	mg/Kg-dry	100	7/28/2016 2:14 PM
Antimony	4.1		0.29	0.38	0.77	mg/Kg-dry	1	7/28/2016 1:13 PM
Arsenic	2.5		0.56	0.77	1.5	mg/Kg-dry	1	7/28/2016 1:13 PM
Barium	37		0.23	3.8	7.7	mg/Kg-dry	1	7/28/2016 1:13 PM
Beryllium	0.14	J	0.0097	0.038	0.19	mg/Kg-dry	1	7/28/2016 1:13 PM
Cadmium	0.16	J	0.025	0.038	0.19	mg/Kg-dry	1	7/28/2016 1:13 PM
Calcium	650		2.2	7.7	38	mg/Kg-dry	1	7/28/2016 1:13 PM
Chromium	16		0.063	0.31	0.38	mg/Kg-dry	1	8/2/2016 12:49 PM
Cobalt	4.2		0.069	0.19	0.77	mg/Kg-dry	1	7/28/2016 1:13 PM
Copper	45		0.32	0.77	3.8	mg/Kg-dry	1	7/28/2016 1:13 PM
Iron	13,000		24	38	110	mg/Kg-dry	10	7/28/2016 2:13 PM
Lead	16		0.48	0.77	3.8	mg/Kg-dry	1	7/28/2016 1:13 PM
Magnesium	2,600		27	38	380	mg/Kg-dry	10	7/28/2016 2:13 PM
Manganese	230		1.4	1.9	7.7	mg/Kg-dry	10	7/28/2016 2:13 PM
Nickel	9.7		0.22	0.77	3.8	mg/Kg-dry	1	7/28/2016 1:13 PM
Potassium	1,600		1.8	7.7	15	mg/Kg-dry	1	7/28/2016 1:13 PM
Selenium	1.1	U	0.89	1.1	1.5	mg/Kg-dry	1	7/28/2016 1:13 PM
Silver	0.19	U	0.063	0.19	0.77	mg/Kg-dry	1	7/28/2016 1:13 PM
Sodium	81		1.6	3.8	38	mg/Kg-dry	1	7/28/2016 1:13 PM
Vanadium	21		0.097	0.77	1.9	mg/Kg-dry	1	7/28/2016 1:13 PM
Zinc	100		0.30	0.38	3.8	mg/Kg-dry	1	8/2/2016 12:49 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	J	0.036	0.037	0.15	mg/Kg-dry	10	7/15/2016 2:03 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
1,2-Dichlorobenzene	0.019	U	0.0081	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
1,3-Dichlorobenzene	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
1,4-Dichlorobenzene	0.019	U	0.0060	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM

RTI Laboratories - Analytical Report

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606601-007 **Matrix:** Soil
Client Sample ID: H2-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	U	0.021	0.037	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
2,4-Dichlorophenol	0.093	U	0.032	0.093	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
2,4-Dimethyl phenol	0.093	U	0.036	0.093	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
2,4-Dinitrophenol	0.19	U	0.11	0.19	0.93	mg/Kg-dry	1	8/3/2016 1:09 PM
2,4-Dinitrotoluene	0.019	U	0.016	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
2-Chloronaphthalene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
2-Chlorophenol	0.093	U	0.039	0.093	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
2-Methylphenol (o-Cresol)	0.093	U	0.040	0.093	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
2-Nitroaniline	0.019	U	0.0091	0.019	0.36	mg/Kg-dry	1	8/3/2016 1:09 PM
2-Nitrophenol	0.093	U	0.046	0.093	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
3,3´-Dichlorobenzidine	0.75	U	0.48	0.75	1.1	mg/Kg-dry	1	8/3/2016 1:09 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.36	mg/Kg-dry	1	8/3/2016 1:09 PM
3/4-Methylphenol [m/p-Cresol]	0.093	U	0.067	0.093	0.36	mg/Kg-dry	1	8/3/2016 1:09 PM
4,6-Dinitro-2-methylphenol	0.093	U	0.054	0.093	0.36	mg/Kg-dry	1	8/3/2016 1:09 PM
4-Bromophenyl phenyl ether	0.093	U	0.048	0.093	0.22	mg/Kg-dry	1	8/3/2016 1:09 PM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
4-Chloroaniline [p-Chloroaniline]	0.093	U	0.028	0.093	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
4-Nitroaniline	0.093	U	0.027	0.093	0.36	mg/Kg-dry	1	8/3/2016 1:09 PM
4-Nitrophenol	0.37	U	0.27	0.37	0.93	mg/Kg-dry	1	8/3/2016 1:09 PM
Benzoic acid	0.37	UY	0.15	0.37	1.1	mg/Kg-dry	1	8/3/2016 1:09 PM
Benzyl alcohol	0.019	U	0.0090	0.019	0.74	mg/Kg-dry	1	8/3/2016 1:09 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0085	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Bis(2-ethylhexyl) phthalate	0.037	U	0.033	0.037	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Dibenzofuran	0.019	U	0.0095	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Dimethyl phthalate	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.056	mg/Kg-dry	1	8/3/2016 1:09 PM
Hexachloroethane	0.019	U	0.0086	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Isophorone	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
N-Nitroso-di-n-propylamine	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
N-Nitrosodimethylamine	0.019	U	0.0091	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
N-Nitrosodiphenylamine	0.019	U	0.0090	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Pentachlorophenol	0.093	UY	0.070	0.093	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Phenol	0.093	U	0.040	0.093	0.18	mg/Kg-dry	1	8/3/2016 1:09 PM
Surr: 2,4,6-Tribromophenol	49.8			39-132		%Rec	1	8/3/2016 1:09 PM
Surr: 2-Fluorobiphenyl	48.4			44-115		%Rec	1	8/3/2016 1:09 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:00:00 AM
Project:	Camp Hero		
Lab ID:	1606601-007	**Matrix:**	Soil
Client Sample ID:	H2-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	45.6			35-115		%Rec	1	8/3/2016 1:09 PM
Surr: Nitrobenzene-d5	47.2			37-122		%Rec	1	8/3/2016 1:09 PM
Surr: Phenol-d5	45.8			33-122		%Rec	1	8/3/2016 1:09 PM
Surr: Terphenyl-d14	55.6			54-127		%Rec	1	8/3/2016 1:09 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0024		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/2/2016 6:36 PM
2-Methylnaphthalene	0.0034		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/2/2016 6:36 PM
Acenaphthene	0.0032		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/2/2016 6:36 PM
Acenaphthylene	0.0029		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/2/2016 6:36 PM
Anthracene	0.012		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/2/2016 6:36 PM
Benzo(a)anthracene	0.085		0.015	0.015	0.015	mg/Kg-dry	20	8/3/2016 7:03 PM
Benzo(a)pyrene	0.24		0.015	0.015	0.015	mg/Kg-dry	20	8/3/2016 7:03 PM
Benzo(b)fluoranthene	0.36		0.015	0.015	0.015	mg/Kg-dry	20	8/3/2016 7:03 PM
Benzo(g,h,i)perylene	0.17		0.015	0.015	0.015	mg/Kg-dry	20	8/3/2016 7:03 PM
Benzo(k)fluoranthene	0.10		0.015	0.015	0.015	mg/Kg-dry	20	8/3/2016 7:03 PM
Chrysene	0.11		0.015	0.015	0.015	mg/Kg-dry	20	8/3/2016 7:03 PM
Dibenzo(a,h)anthracene	0.015	U	0.015	0.015	0.015	mg/Kg-dry	20	8/3/2016 7:03 PM
Fluoranthene	0.036		0.015	0.015	0.015	mg/Kg-dry	20	8/3/2016 7:03 PM
Fluorene	0.0036		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/2/2016 6:36 PM
Indeno(1,2,3-cd)pyrene	0.17		0.015	0.015	0.015	mg/Kg-dry	20	8/3/2016 7:03 PM
Naphthalene	0.0039		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/2/2016 6:36 PM
Phenanthrene	0.027		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/2/2016 6:36 PM
Pyrene	0.064		0.015	0.015	0.015	mg/Kg-dry	20	8/3/2016 7:03 PM
Surr: 2-Fluorobiphenyl	94.2			46-115		%Rec	1	8/2/2016 6:36 PM
Surr: Nitrobenzene-d5	123			44-125		%Rec	1	8/2/2016 6:36 PM
Surr: Terphenyl-d14	126			58-133		%Rec	1	8/2/2016 6:36 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:10:00 AM
Project:	Camp Hero		
Lab ID:	1606601-008	**Matrix:**	Soil
Client Sample ID:	H2-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0079	U	0.0036	0.0079	0.039	mg/Kg-dry	1	7/21/2016 7:24 AM
Aroclor 1221	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	7/21/2016 7:24 AM
Aroclor 1232	0.0079	U	0.0053	0.0079	0.039	mg/Kg-dry	1	7/21/2016 7:24 AM
Aroclor 1242	0.0079	U	0.0044	0.0079	0.039	mg/Kg-dry	1	7/21/2016 7:24 AM
Aroclor 1248	0.0079	U	0.0042	0.0079	0.039	mg/Kg-dry	1	7/21/2016 7:24 AM
Aroclor 1254	0.0079	U	0.0050	0.0079	0.039	mg/Kg-dry	1	7/21/2016 7:24 AM
Aroclor 1260	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	7/21/2016 7:24 AM
Aroclor 1262	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	7/21/2016 7:24 AM
Aroclor 1268	0.0079	U	0.0029	0.0079	0.039	mg/Kg-dry	1	7/21/2016 7:24 AM
Surr: Tetrachloro-m-xylene	76.4			44-130		%Rec	1	7/21/2016 7:24 AM
Surr: Decachlorobiphenyl	90.0			60-125		%Rec	1	7/21/2016 7:24 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		57	150	380	mg/Kg-dry	100	7/5/2016 1:43 PM
Antimony	3.8		0.29	0.38	0.76	mg/Kg-dry	1	7/5/2016 12:09 PM
Arsenic	2.5		0.55	0.76	1.5	mg/Kg-dry	1	7/5/2016 12:09 PM
Barium	35	X	0.23	3.8	7.6	mg/Kg-dry	1	7/5/2016 12:09 PM
Beryllium	0.20		0.0097	0.038	0.19	mg/Kg-dry	1	7/5/2016 12:09 PM
Cadmium	0.14	J	0.025	0.038	0.19	mg/Kg-dry	1	7/5/2016 12:09 PM
Calcium	650	X	2.2	7.6	38	mg/Kg-dry	1	7/5/2016 12:09 PM
Chromium	18	X	0.063	0.31	0.38	mg/Kg-dry	1	7/5/2016 12:09 PM
Cobalt	3.8		0.069	0.19	0.76	mg/Kg-dry	1	7/5/2016 12:09 PM
Copper	42	X	0.32	0.76	3.8	mg/Kg-dry	1	7/5/2016 12:09 PM
Iron	16,000		24	38	110	mg/Kg-dry	10	7/5/2016 1:14 PM
Lead	7.4		0.48	0.76	3.8	mg/Kg-dry	1	7/5/2016 12:09 PM
Magnesium	2,300		27	38	380	mg/Kg-dry	10	7/5/2016 1:14 PM
Manganese	260		1.4	1.9	7.6	mg/Kg-dry	10	7/5/2016 1:14 PM
Nickel	9.3		0.22	0.76	3.8	mg/Kg-dry	1	7/5/2016 12:09 PM
Potassium	1,400	X	1.8	7.6	15	mg/Kg-dry	1	7/5/2016 12:09 PM
Selenium	1.1	U	0.89	1.1	1.5	mg/Kg-dry	1	7/5/2016 12:09 PM
Silver	0.19	U	0.063	0.19	0.76	mg/Kg-dry	1	7/5/2016 12:09 PM
Sodium	83	X	1.6	3.8	38	mg/Kg-dry	1	7/5/2016 12:09 PM
Vanadium	23	X	0.097	0.76	1.9	mg/Kg-dry	1	7/5/2016 12:09 PM
Zinc	110	X	0.30	0.38	3.8	mg/Kg-dry	1	7/5/2016 12:09 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.13	JG	0.038	0.039	0.16	mg/Kg-dry	10	7/25/2016 7:18 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
1,2-Dichlorobenzene	0.020	U	0.0088	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
1,3-Dichlorobenzene	0.020	U	0.0084	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
1,4-Dichlorobenzene	0.020	U	0.0065	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
2,4,5-Trichlorophenol	0.041	U	0.020	0.041	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM

RTI Laboratories - Analytical Report

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 10:10:00 AM
Project: Camp Hero
Lab ID: 1606601-008 **Matrix:** Soil
Client Sample ID: H2-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.041	UY	0.023	0.041	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
2,4-Dichlorophenol	0.10	U	0.035	0.10	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
2,4-Dimethyl phenol	0.10	U	0.039	0.10	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
2,4-Dinitrophenol	0.20	UY	0.12	0.20	1.0	mg/Kg-dry	1	7/8/2016 4:13 PM
2,4-Dinitrotoluene	0.020	UY	0.018	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
2,6-Dinitrotoluene	0.020	UX	0.019	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
2-Chloronaphthalene	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
2-Chlorophenol	0.10	U	0.042	0.10	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
2-Methylphenol (o-Cresol)	0.10	U	0.044	0.10	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
2-Nitroaniline	0.020	UY	0.0099	0.020	0.39	mg/Kg-dry	1	7/8/2016 4:13 PM
2-Nitrophenol	0.10	UY	0.050	0.10	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
3,3´-Dichlorobenzidine	0.81	UX	0.52	0.81	1.2	mg/Kg-dry	1	7/8/2016 4:13 PM
3-Nitroaniline	0.020	UY X	0.014	0.020	0.39	mg/Kg-dry	1	7/8/2016 4:13 PM
3/4-Methylphenol [m/p-Cresol]	0.10	UX	0.072	0.10	0.39	mg/Kg-dry	1	7/8/2016 4:13 PM
4,6-Dinitro-2-methylphenol	0.10	UY	0.058	0.10	0.39	mg/Kg-dry	1	7/8/2016 4:13 PM
4-Bromophenyl phenyl ether	0.10	UX	0.052	0.10	0.24	mg/Kg-dry	1	7/8/2016 4:13 PM
4-Chloro-3-methylphenol	0.041	U	0.021	0.041	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
4-Chloroaniline [p-Chloroaniline]	0.10	U	0.031	0.10	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
4-Chlorophenyl phenyl ether	0.020	UX	0.012	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
4-Nitroaniline	0.10	UY X	0.029	0.10	0.39	mg/Kg-dry	1	7/8/2016 4:13 PM
4-Nitrophenol	0.41	UY	0.29	0.41	1.0	mg/Kg-dry	1	7/8/2016 4:13 PM
Benzoic acid	0.41	UQ X	0.16	0.41	1.2	mg/Kg-dry	1	7/8/2016 4:13 PM
Benzyl alcohol	0.020	U	0.0098	0.020	0.80	mg/Kg-dry	1	7/8/2016 4:13 PM
Bis(2-chloroethoxy) methane	0.020	U	0.0084	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Bis(2-chloroethyl) ether	0.041	U	0.022	0.041	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Bis(2-chloroisopropyl)ether	0.020	UZ	0.0093	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Bis(2-ethylhexyl) phthalate	0.041	UX	0.036	0.041	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Butyl benzyl phthalate	0.041	UX	0.024	0.041	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Carbazole	0.020	UX	0.014	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Di-n-butyl phthalate	0.041	UX	0.022	0.041	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Di-n-octyl phthalate	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Dibenzofuran	0.020	U	0.010	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Diethyl phthalate	0.020	UX	0.015	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Dimethyl phthalate	0.020	UX	0.014	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Hexachlorobenzene	0.020	UX	0.011	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Hexachlorobutadiene	0.020	U	0.018	0.020	0.061	mg/Kg-dry	1	7/8/2016 4:13 PM
Hexachloroethane	0.020	U	0.0093	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Isophorone	0.020	U	0.0084	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
N-Nitroso-di-n-propylamine	0.020	UX	0.011	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
N-Nitrosodimethylamine	0.020	U	0.0099	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
N-Nitrosodiphenylamine	0.020	U	0.0098	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Nitrobenzene	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Pentachlorophenol	0.10	U	0.076	0.10	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM
Phenol	0.10	U	0.043	0.10	0.19	mg/Kg-dry	1	7/8/2016 4:13 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:10:00 AM
Project:	Camp Hero		
Lab ID:	1606601-008	**Matrix:**	Soil
Client Sample ID:	H2-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	51.9			39-132		%Rec	1	7/8/2016 4:13 PM
Surr: 2-Fluorobiphenyl	51.8			44-115		%Rec	1	7/8/2016 4:13 PM
Surr: 2-Fluorophenol	45.9			35-115		%Rec	1	7/8/2016 4:13 PM
Surr: Nitrobenzene-d5	54.4			37-122		%Rec	1	7/8/2016 4:13 PM
Surr: Phenol-d5	48.6			33-122		%Rec	1	7/8/2016 4:13 PM
Surr: Terphenyl-d14	49.7	Q		54-127		%Rec	1	7/8/2016 4:13 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0010	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
2-Methylnaphthalene	0.0019		0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Acenaphthene	0.0012		0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Acenaphthylene	0.00090		0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Anthracene	0.0024	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Benzo(a)anthracene	0.014	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Benzo(a)pyrene	0.013	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Benzo(b)fluoranthene	0.023	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Benzo(g,h,i)perylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Benzo(k)fluoranthene	0.0053	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Chrysene	0.014	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Dibenzo(a,h)anthracene	0.00078	UX	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Fluoranthene	0.028	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Fluorene	0.0013		0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Indeno(1,2,3-cd)pyrene	0.0053	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Naphthalene	0.0014		0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Phenanthrene	0.015	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Pyrene	0.023	X	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/2/2016 7:03 PM
Surr: 2-Fluorobiphenyl	107			46-115		%Rec	1	8/2/2016 7:03 PM
Surr: Nitrobenzene-d5	133	Q		44-125		%Rec	1	8/2/2016 7:03 PM
Surr: Terphenyl-d14	127			58-133		%Rec	1	8/2/2016 7:03 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - DATES REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606601-001A	H1-SS01-01	6/15/2016 8:40 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	7/8/2016 9:10 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/1/2016 2:26 PM
1606601-001B	H1-SS01-01	6/15/2016 8:40 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 3:44 AM
1606601-001C	H1-SS01-01	6/15/2016 8:40 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 1:59 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:07 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:07 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 12:41 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606601-002A	H1-SS01-02	6/15/2016 8:50 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	7/8/2016 9:34 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/1/2016 2:54 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 6:08 PM
1606601-002B	H1-SS01-02	6/15/2016 8:50 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 4:09 AM
1606601-002C	H1-SS01-02	6/15/2016 8:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:00 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:08 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:08 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 12:43 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606601-003A	H1-SS02-01	6/15/2016 9:00 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	7/8/2016 9:59 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/1/2016 3:51 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 6:35 PM
1606601-003B	H1-SS02-01	6/15/2016 9:00 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 4:33 AM
1606601-003C	H1-SS02-01	6/15/2016 9:00 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:37 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:38 PM

RTI Laboratories - DATES REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606601-003C	H1-SS02-01	6/15/2016 9:00 AM	Soil				
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:55 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 4:19 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606601-004A	H1-SS02-02	6/15/2016 9:05 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	7/8/2016 10:24 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/1/2016 4:19 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/4/2016 2:15 PM
1606601-004B	H1-SS02-02	6/15/2016 9:05 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/23/2016 12:24 AM
1606601-004C	H1-SS02-02	6/15/2016 9:05 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:38 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:40 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 4:03 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 5:57 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 4:20 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606601-005A	H2-SS01-01	6/15/2016 9:40 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	7/8/2016 10:49 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/2/2016 1:57 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/2/2016 5:12 PM
1606601-005B	H2-SS01-01	6/15/2016 9:40 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 6:11 AM
1606601-005C	H2-SS01-01	6/15/2016 9:40 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:01 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:10 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:10 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 12:44 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:27 PM
				PMOIST-Percent Moisture		6/20/2016 3:15 PM	6/20/2016 3:15 PM
1606601-006A	H2-SS01-02	6/15/2016 9:50 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	8/3/2016 12:45 PM

RTI Laboratories - DATES REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606601-006A	H2-SS01-02	6/15/2016 9:50 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/2/2016 2:25 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/2/2016 5:40 PM
1606601-006B	H2-SS01-02	6/15/2016 9:50 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 6:35 AM
1606601-006C	H2-SS01-02	6/15/2016 9:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:02 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:11 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:11 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 12:46 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606601-007A	H2-SS02-01	6/15/2016 10:00 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	8/3/2016 1:09 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/2/2016 6:36 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 7:03 PM
1606601-007B	H2-SS02-01	6/15/2016 10:00 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 6:59 AM
1606601-007C	H2-SS02-01	6/15/2016 10:00 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:03 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:13 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:13 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:14 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 12:49 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606601-008A	H2-SS02-02	6/15/2016 10:10 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	7/8/2016 4:13 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/2/2016 7:03 PM
1606601-008B	H2-SS02-02	6/15/2016 10:10 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 7:24 AM
1606601-008C	H2-SS02-02	6/15/2016 10:10 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:18 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 12:09 PM

RTI Laboratories - DATES REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606601-008C	H2-SS02-02	6/15/2016 10:10 AM	Soil				
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:14 PM
				SW_6010S-Metals, ICP/OES		7/1/2016 10:42 AM	7/5/2016 1:43 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**MB-40244**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**PBS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1704980**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.16	0.16									U
1,2-Dichlorobenzene	0.16	0.16									U
1,3-Dichlorobenzene	0.16	0.16									U
1,4-Dichlorobenzene	0.16	0.16									U
2,4,5-Trichlorophenol	0.16	0.16									U
2,4,6-Trichlorophenol	0.16	0.16									UY
2,4-Dichlorophenol	0.16	0.16									U
2,4-Dimethyl phenol	0.16	0.16									U
2,4-Dinitrophenol	0.82	0.82									UY
2,4-Dinitrotoluene	0.16	0.16									UY
2,6-Dinitrotoluene	0.16	0.16									U
2-Chloronaphthalene	0.16	0.16									U
2-Chlorophenol	0.16	0.16									U
2-Methylphenol (o-Cresol)	0.16	0.16									U
2-Nitroaniline	0.32	0.32									UY
2-Nitrophenol	0.16	0.16									UY
3,3´-Dichlorobenzidine	0.99	0.99									U
3-Nitroaniline	0.32	0.32									UY
3/4-Methylphenol [m/p-Cresol]	0.32	0.32									U
4,6-Dinitro-2-methylphenol	0.32	0.32									UY
4-Bromophenyl phenyl ether	0.20	0.20									U
4-Chloro-3-methylphenol	0.16	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.16	0.16									U
4-Chlorophenyl phenyl ether	0.16	0.16									U
4-Nitroaniline	0.32	0.32									UY
4-Nitrophenol	0.82	0.82									UY
Benzoic acid	0.99	0.99									U
Benzyl alcohol	0.66	0.66									U
Bis(2-chloroethoxy) methane	0.16	0.16									U
Bis(2-chloroethyl) ether	0.16	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**MB-40244**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**PBS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1704980**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.16	0.16									UZ
Bis(2-ethylhexyl) phthalate	0.16	0.16									U
Butyl benzyl phthalate	0.16	0.16									U
Carbazole	0.16	0.16									U
Di-n-butyl phthalate	0.16	0.16									U
Di-n-octyl phthalate	0.16	0.16									U
Dibenzofuran	0.16	0.16									U
Diethyl phthalate	0.16	0.16									U
Dimethyl phthalate	0.16	0.16									U
Hexachlorobenzene	0.16	0.16									U
Hexachlorobutadiene	0.050	0.050									U
Hexachloroethane	0.16	0.16									U
Isophorone	0.16	0.16									U
N-Nitroso-di-n-propylamine	0.16	0.16									U
N-Nitrosodimethylamine	0.16	0.16									U
N-Nitrosodiphenylamine	0.16	0.16									U
Nitrobenzene	0.16	0.16									U
Pentachlorophenol	0.16	0.16									U
Phenol	0.16	0.16									U
Surr: 2,4,6-Tribromophenol	670		828.1		81.4	39	132				
Surr: 2-Fluorobiphenyl	720		828.1		87.4	44	115				
Surr: 2-Fluorophenol	720		828.1		86.6	35	115				
Surr: Nitrobenzene-d5	790		828.1		95.8	37	122				
Surr: Phenol-d5	750		828.1		90.5	33	122				
Surr: Terphenyl-d14	710		828.1		85.2	54	127				

Sample ID:	**LCS-40244**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**LCSS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711446**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.52	0.16	0.65	0	80.2	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**LCS-40244**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**LCSS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711446**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.50	0.16	0.65	0	76.1	33	117				
1,3-Dichlorobenzene	0.49	0.16	0.65	0	75.4	30	115				
1,4-Dichlorobenzene	0.49	0.16	0.65	0	74.5	31	115				
2,4,5-Trichlorophenol	0.60	0.16	0.65	0	91.6	41	124				
2,4,6-Trichlorophenol	0.63	0.16	0.65	0	96.5	39	126				Y
2,4-Dichlorophenol	0.60	0.16	0.65	0	91.9	40	122				
2,4-Dimethyl phenol	0.54	0.16	0.65	0	82.9	30	127				
2,4-Dinitrophenol	1.7	0.81	1.6	0	103	50	130				JY
2,4-Dinitrotoluene	0.65	0.16	0.65	0	99.2	48	126				Y
2,6-Dinitrotoluene	0.58	0.16	0.65	0	88.6	46	124				
2-Chloronaphthalene	0.52	0.16	0.65	0	79.6	41	114				
2-Chlorophenol	0.52	0.16	0.65	0	80.3	34	121				
2-Methylphenol (o-Cresol)	0.55	0.16	0.65	0	84.4	32	122				
2-Nitroaniline	0.64	0.31	0.65	0	98.5	44	127				Y
2-Nitrophenol	0.61	0.16	0.65	0	93.9	36	123				Y
3,3´-Dichlorobenzidine	0.56	0.98	0.65	0	85.6	22	121				J
3-Nitroaniline	0.62	0.31	0.65	0	95.6	33	119				Y
3/4-Methylphenol [m/p-Cresol]	1.1	0.31	1.3	0	87.7	34	119				
4,6-Dinitro-2-methylphenol	0.72	0.31	0.65	0	110	29	132				Y
4-Bromophenyl phenyl ether	0.54	0.20	0.65	0	82.9	46	124				
4-Chloro-3-methylphenol	0.60	0.16	0.65	0	91.1	45	122				
4-Chloroaniline [p-Chloroaniline]	0.56	0.16	0.65	0	86.4	17	106				
4-Chlorophenyl phenyl ether	0.55	0.16	0.65	0	84.0	45	121				
4-Nitroaniline	0.60	0.31	0.65	0	92.3	50	130				Y
4-Nitrophenol	1.2	0.81	1.6	0	72.1	30	132				Y
Benzoic acid	0.98	0.98	1.3	0	0	40	117				QU
Benzyl alcohol	0.51	0.65	0.65	0	77.8	29	122				J
Bis(2-chloroethoxy) methane	0.56	0.16	0.65	0	85.3	36	121				
Bis(2-chloroethyl) ether	0.50	0.16	0.65	0	76.0	31	120				
Bis(2-chloroisopropyl)ether	0.48	0.16	0.65	0	73.7	33	131				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	LCS-40244	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	LCSS	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711446

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.52	0.16	0.65	0	79.2	51	133				
Butyl benzyl phthalate	0.54	0.16	0.65	0	82.9	48	132				
Carbazole	0.55	0.16	0.65	0	84.2	50	123				
Di-n-butyl phthalate	0.51	0.16	0.65	0	77.5	51	128				
Di-n-octyl phthalate	0.56	0.16	0.65	0	85.4	45	140				
Dibenzofuran	0.54	0.16	0.65	0	82.4	44	120				
Diethyl phthalate	0.54	0.16	0.65	0	82.0	50	124				
Dimethyl phthalate	0.52	0.16	0.65	0	79.9	48	124				
Hexachlorobenzene	0.55	0.16	0.65	0	83.7	45	122				
Hexachlorobutadiene	0.54	0.049	0.65	0	82.7	32	123				
Hexachloroethane	0.51	0.16	0.65	0	77.9	28	117				
Isophorone	0.53	0.16	0.65	0	80.6	30	122				
N-Nitroso-di-n-propylamine	0.56	0.16	0.65	0	85.1	50	130				
N-Nitrosodimethylamine	0.52	0.16	0.65	0	79.2	23	120				
N-Nitrosodiphenylamine	0.53	0.16	0.65	0	81.4	38	127				
Nitrobenzene	0.55	0.16	0.65	0	83.7	34	122				
Pentachlorophenol	0.33	0.16	0.65	0	50.0	25	133				
Phenol	0.60	0.16	0.65	0	91.7	34	121				
Surr: 2,4,6-Tribromophenol	720		816.5		88.7	39	132				
Surr: 2-Fluorobiphenyl	710		816.5		86.7	44	115				
Surr: 2-Fluorophenol	720		816.5		88.7	35	115				
Surr: Nitrobenzene-d5	810		816.5		98.7	37	122				
Surr: Phenol-d5	740		816.5		90.8	33	122				
Surr: Terphenyl-d14	720		816.5		88.6	54	127				

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	H2-SS02-02MS1	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711447

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.54	0.20	0.82	0	65.6	34	118				
1,2-Dichlorobenzene	0.51	0.20	0.82	0	61.8	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**1606601-008AMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**H2-SS02-02MS1**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711447**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.50	0.20	0.82	0	61.6	30	115				
1,4-Dichlorobenzene	0.49	0.20	0.82	0	60.2	31	115				
2,4,5-Trichlorophenol	0.69	0.20	0.82	0	84.7	41	124				
2,4,6-Trichlorophenol	0.72	0.20	0.82	0	88.4	39	126				Y
2,4-Dichlorophenol	0.64	0.20	0.82	0	78.6	40	122				
2,4-Dimethyl phenol	0.49	0.20	0.82	0	60.3	30	127				
2,4-Dinitrophenol	2.2	1.0	2.0	0	107	50	130				JY
2,4-Dinitrotoluene	0.71	0.20	0.82	0	86.1	48	126				Y
2,6-Dinitrotoluene	0.62	0.20	0.82	0	75.8	46	124				
2-Chloronaphthalene	0.56	0.20	0.82	0	67.9	41	114				
2-Chlorophenol	0.55	0.20	0.82	0	66.8	34	121				
2-Methylphenol (o-Cresol)	0.56	0.20	0.82	0	67.8	32	122				
2-Nitroaniline	0.70	0.39	0.82	0	85.2	44	127				Y
2-Nitrophenol	0.67	0.20	0.82	0	82.1	36	123				Y
3,3´-Dichlorobenzidine	1.2	1.2	0.82	0	0	22	121				QU
3-Nitroaniline	0.34	0.39	0.82	0	41.2	33	119				JY
3/4-Methylphenol [m/p-Cresol]	1.2	0.39	1.6	0	72.0	42	126				
4,6-Dinitro-2-methylphenol	0.91	0.39	0.82	0	112	29	132				Y
4-Bromophenyl phenyl ether	0.58	0.25	0.82	0	71.2	46	124				
4-Chloro-3-methylphenol	0.64	0.20	0.82	0	78.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.21	0.20	0.82	0	25.1	17	106				
4-Chlorophenyl phenyl ether	0.61	0.20	0.82	0	74.0	45	121				
4-Nitroaniline	0.33	0.39	0.82	0	40.4	50	130				JQY
4-Nitrophenol	1.6	1.0	2.0	0	77.3	30	132				Y
Benzoic acid	1.9	1.2	1.6	0	117	40	117				Q
Benzyl alcohol	0.53	0.81	0.82	0	64.8	29	122				J
Bis(2-chloroethoxy) methane	0.57	0.20	0.82	0	70.1	36	121				
Bis(2-chloroethyl) ether	0.52	0.20	0.82	0	63.3	31	120				
Bis(2-chloroisopropyl)ether	0.50	0.20	0.82	0	61.6	33	131				Z
Bis(2-ethylhexyl) phthalate	0.61	0.20	0.82	0	75.0	51	133				

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40244

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	H2-SS02-02MS1	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711447

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.61	0.20	0.82	0	74.4	48	132				
Carbazole	0.61	0.20	0.82	0	74.5	50	123				
Di-n-butyl phthalate	0.56	0.20	0.82	0	68.4	51	128				
Di-n-octyl phthalate	0.65	0.20	0.82	0	79.5	45	140				
Dibenzofuran	0.59	0.20	0.82	0	71.7	44	120				
Diethyl phthalate	0.58	0.20	0.82	0	70.9	50	124				
Dimethyl phthalate	0.56	0.20	0.82	0	68.8	48	124				
Hexachlorobenzene	0.58	0.20	0.82	0	71.0	45	122				
Hexachlorobutadiene	0.57	0.061	0.82	0	70.1	32	123				
Hexachloroethane	0.50	0.20	0.82	0	60.7	28	117				
Isophorone	0.55	0.20	0.82	0	67.6	30	122				
N-Nitroso-di-n-propylamine	0.59	0.20	0.82	0	72.2	50	130				
N-Nitrosodimethylamine	0.52	0.20	0.82	0	63.8	23	120				
N-Nitrosodiphenylamine	0.56	0.20	0.82	0	68.6	38	127				
Nitrobenzene	0.57	0.20	0.82	0	69.1	34	122				
Pentachlorophenol	0.68	0.20	0.82	0	83.3	25	133				
Phenol	0.59	0.20	0.82	0	72.0	34	121				
Surr: 2,4,6-Tribromophenol	850		1,023		83.2	39	132				
Surr: 2-Fluorobiphenyl	740		1,023		72.3	44	115				
Surr: 2-Fluorophenol	710		1,023		69.2	35	115				
Surr: Nitrobenzene-d5	800		1,023		78.1	37	122				
Surr: Phenol-d5	730		1,023		71.6	33	122				
Surr: Terphenyl-d14	760		1,023		74.2	54	127				

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	H2-SS02-02SD1	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711448

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.34	0.20	0.81	0	42.1	34	118	0.54	44.2	25	R
1,2-Dichlorobenzene	0.32	0.20	0.81	0	39.3	33	117	0.51	45.0	25	R
1,3-Dichlorobenzene	0.31	0.20	0.81	0	38.3	30	115	0.50	47.1	25	R

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**1606601-008AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/24/2016**	RunNo:	**87747**	
Client ID:	**H2-SS02-02SD1**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711448**	

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.31	0.20	0.81	0	38.3	31	115	0.49	45.1	25	R
2,4,5-Trichlorophenol	0.42	0.20	0.81	0	51.4	41	124	0.69	49.5	25	R
2,4,6-Trichlorophenol	0.42	0.20	0.81	0	52.2	39	126	0.72	52.1	25	RY
2,4-Dichlorophenol	0.39	0.20	0.81	0	48.1	40	122	0.64	48.8	25	R
2,4-Dimethyl phenol	0.28	0.20	0.81	0	34.8	30	127	0.49	54.3	25	R
2,4-Dinitrophenol	1.4	1.0	2.0	0	70.6	50	130	2.2	41.9	25	RY
2,4-Dinitrotoluene	0.41	0.20	0.81	0	50.5	48	126	0.71	52.7	25	RY
2,6-Dinitrotoluene	0.36	0.20	0.81	0	44.4	46	124	0.62	52.9	25	RQ
2-Chloronaphthalene	0.34	0.20	0.81	0	42.0	41	114	0.56	47.6	25	R
2-Chlorophenol	0.33	0.20	0.81	0	40.6	34	121	0.55	49.5	25	R
2-Methylphenol (o-Cresol)	0.34	0.20	0.81	0	41.4	32	122	0.56	49.0	25	R
2-Nitroaniline	0.41	0.39	0.81	0	50.2	44	127	0.70	52.2	25	RY
2-Nitrophenol	0.42	0.20	0.81	0	51.9	36	123	0.67	45.7	25	RY
3,3´-Dichlorobenzidine	1.2	1.2	0.81	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.24	0.39	0.81	0	29.6	33	119	0.34	33.3	25	JRQY
3/4-Methylphenol [m/p-Cresol]	0.68	0.39	1.6	0	41.6	42	126	1.2	54.2	25	RQ
4,6-Dinitro-2-methylphenol	0.54	0.39	0.81	0	66.4	29	132	0.91	51.4	25	RY
4-Bromophenyl phenyl ether	0.36	0.24	0.81	0	44.5	46	124	0.58	46.7	25	RQ
4-Chloro-3-methylphenol	0.38	0.20	0.81	0	47.3	45	122	0.64	49.8	25	R
4-Chloroaniline [p-Chloroaniline]	0.15	0.20	0.81	0	18.5	17	106	0.21	30.6	25	JR
4-Chlorophenyl phenyl ether	0.36	0.20	0.81	0	44.7	45	121	0.61	49.9	25	RQ
4-Nitroaniline	0.25	0.39	0.81	0	30.5	50	130	0.33	28.5	25	JRQY
4-Nitrophenol	0.96	1.0	2.0	0	47.4	30	132	1.6	48.5	25	JRY
Benzoic acid	1.1	1.2	1.6	0	66.8	40	117	1.9	55.4	25	JR
Benzyl alcohol	0.32	0.81	0.81	0	38.8	29	122	0.53	50.9	25	JR
Bis(2-chloroethoxy) methane	0.36	0.20	0.81	0	44.7	36	121	0.57	44.8	25	R
Bis(2-chloroethyl) ether	0.32	0.20	0.81	0	39.7	31	120	0.52	46.4	25	R
Bis(2-chloroisopropyl)ether	0.31	0.20	0.81	0	38.2	33	131	0.50	47.6	25	RZ
Bis(2-ethylhexyl) phthalate	0.36	0.20	0.81	0	44.2	51	133	0.61	52.2	25	RQ
Butyl benzyl phthalate	0.35	0.20	0.81	0	43.5	48	132	0.61	53.1	25	RQ

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40244

Sample ID: **1606601-008AMSD** Samp Type: **MSD** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/24/2016** RunNo: **87747**

Client ID: **H2-SS02-02SD1** Batch ID: **40244** TestNo: **SW8270C** **SW3546** Analysis Date: **7/8/2016** SeqNo: **1711448**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.38	0.20	0.81	0	46.9	50	123	0.61	46.1	25	RQ
Di-n-butyl phthalate	0.35	0.20	0.81	0	42.4	51	128	0.56	47.5	25	RQ
Di-n-octyl phthalate	0.39	0.20	0.81	0	47.4	45	140	0.65	51.2	25	R
Dibenzofuran	0.36	0.20	0.81	0	44.2	44	120	0.59	47.9	25	R
Diethyl phthalate	0.35	0.20	0.81	0	43.1	50	124	0.58	49.3	25	RQ
Dimethyl phthalate	0.34	0.20	0.81	0	42.0	48	124	0.56	49.0	25	RQ
Hexachlorobenzene	0.36	0.20	0.81	0	44.3	45	122	0.58	46.8	25	RQ
Hexachlorobutadiene	0.36	0.061	0.81	0	43.6	32	123	0.57	47.2	25	R
Hexachloroethane	0.30	0.20	0.81	0	36.6	28	117	0.50	50.1	25	R
Isophorone	0.34	0.20	0.81	0	42.1	30	122	0.55	47.0	25	R
N-Nitroso-di-n-propylamine	0.34	0.20	0.81	0	42.1	50	130	0.59	53.3	25	RQ
N-Nitrosodimethylamine	0.34	0.20	0.81	0	41.4	23	120	0.52	43.3	25	R
N-Nitrosodiphenylamine	0.35	0.20	0.81	0	43.2	38	127	0.56	45.9	25	R
Nitrobenzene	0.36	0.20	0.81	0	44.3	34	122	0.57	44.2	25	R
Pentachlorophenol	0.36	0.20	0.81	0	44.2	25	133	0.68	62.0	25	R
Phenol	0.36	0.20	0.81	0	44.1	34	121	0.59	48.5	25	R
Surr: 2,4,6-Tribromophenol	500		1,017		49.6	39	132		0	25	
Surr: 2-Fluorobiphenyl	470		1,017		46.3	44	115		0	25	
Surr: 2-Fluorophenol	440		1,017		43.1	35	115		0	25	
Surr: Nitrobenzene-d5	500		1,017		49.0	37	122		0	25	
Surr: Phenol-d5	450		1,017		44.4	33	122		0	25	
Surr: Terphenyl-d14	460		1,017		45.2	54	127		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	**LCS-40258**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**%Rec**	Prep Date:	**6/26/2016**	RunNo:	**87786**
Client ID:	**LCSS**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/1/2016**	SeqNo:	**1706011**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	20		16.26		124	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		145	44	125				Q
Surr: Terphenyl-d14	22		16.26		134	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	MB-40280	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	PBS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706006

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00065	0.00065									U
2-Methylnaphthalene	0.00065	0.00065									U
Acenaphthene	0.00065	0.00065									U
Acenaphthylene	0.00065	0.00065									U
Anthracene	0.00065	0.00065									U
Benzo(a)anthracene	0.00065	0.00065									U
Benzo(a)pyrene	0.00065	0.00065									U
Benzo(b)fluoranthene	0.00065	0.00065									U
Benzo(g,h,i)perylene	0.00065	0.00065									U
Benzo(k)fluoranthene	0.00065	0.00065									U
Chrysene	0.00065	0.00065									U
Dibenzo(a,h)anthracene	0.00065	0.00065									U
Fluoranthene	0.00065	0.00065									U
Fluorene	0.00065	0.00065									U
Indeno(1,2,3-cd)pyrene	0.00065	0.00065									U
Naphthalene	0.00065	0.00065									U
Phenanthrene	0.00065	0.00065									U
Pyrene	0.00065	0.00065									U
Surr: 2-Fluorobiphenyl	19		16.27		116	46	115				Q
Surr: Nitrobenzene-d5	21		16.27		126	44	125				Q
Surr: Terphenyl-d14	21		16.27		128	58	133				

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.015	0.00067	0.013	0	115	43	111				Q
2-Methylnaphthalene	0.014	0.00067	0.013	0	104	39	114				
Acenaphthene	0.014	0.00067	0.013	0	107	44	111				
Acenaphthylene	0.014	0.00067	0.013	0	105	39	116				
Anthracene	0.014	0.00067	0.013	0	108	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.015	0.00067	0.013	0	114	54	122				
Benzo(a)pyrene	0.014	0.00067	0.013	0	103	50	125				
Benzo(b)fluoranthene	0.016	0.00067	0.013	0	122	53	128				
Benzo(g,h,i)perylene	0.014	0.00067	0.013	0	107	49	127				
Benzo(k)fluoranthene	0.014	0.00067	0.013	0	107	56	123				
Chrysene	0.015	0.00067	0.013	0	110	57	118				
Dibenzo(a,h)anthracene	0.014	0.00067	0.013	0	108	50	129				
Fluoranthene	0.015	0.00067	0.013	0	113	55	119				
Fluorene	0.014	0.00067	0.013	0	104	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00067	0.013	0	107	49	130				
Naphthalene	0.014	0.00067	0.013	0	103	38	111				
Phenanthrene	0.014	0.00067	0.013	0	103	49	113				
Pyrene	0.015	0.00067	0.013	0	111	55	117				
Surr: 2-Fluorobiphenyl	21		16.66		125	46	115				Q
Surr: Nitrobenzene-d5	23		16.66		140	44	125				Q
Surr: Terphenyl-d14	22		16.66		133	58	133				Q

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	H2-SS02-02MS1	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.019	0.00079	0.016	0.0010	115	43	111				Q
2-Methylnaphthalene	0.018	0.00079	0.016	0.0019	103	39	114				
Acenaphthene	0.017	0.00079	0.016	0.0012	101	44	111				
Acenaphthylene	0.018	0.00079	0.016	0.00090	107	39	116				
Anthracene	0.019	0.00079	0.016	0.0024	106	50	114				
Benzo(a)anthracene	0.027	0.00079	0.016	0.014	83.7	54	122				
Benzo(a)pyrene	0.024	0.00079	0.016	0.013	70.8	50	125				
Benzo(b)fluoranthene	0.040	0.00079	0.016	0.023	108	53	128				J
Benzo(g,h,i)perylene	0.012	0.00079	0.016	0	74.6	49	127				
Benzo(k)fluoranthene	0.018	0.00079	0.016	0.0053	80.4	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID: **1606601-008AMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **87818**

Client ID: **H2-SS02-02MS1** Batch ID: **40280** TestNo: **SW8270C** **SW3550C** Analysis Date: **8/2/2016** SeqNo: **1706919**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.027	0.00079	0.016	0.014	83.1	57	118				
Dibenzo(a,h)anthracene	0.011	0.00079	0.016	0	69.2	50	129				
Fluoranthene	0.036	0.00079	0.016	0.028	52.5	55	119				Q
Fluorene	0.017	0.00079	0.016	0.0013	99.8	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00079	0.016	0.0053	41.0	49	130				Q
Naphthalene	0.017	0.00079	0.016	0.0014	101	38	111				
Phenanthrene	0.027	0.00079	0.016	0.015	76.3	49	113				
Pyrene	0.033	0.00079	0.016	0.023	64.8	55	117				
Surr: 2-Fluorobiphenyl	23		19.72		119	46	115				Q
Surr: Nitrobenzene-d5	28		19.72		142	44	125				Q
Surr: Terphenyl-d14	28		19.72		144	58	133				Q

Sample ID: **1606601-008AMSD** Samp Type: **MSD** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **87818**

Client ID: **H2-SS02-02SD1** Batch ID: **40280** TestNo: **SW8270C** **SW3550C** Analysis Date: **8/2/2016** SeqNo: **1706920**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.019	0.00078	0.016	0.0010	117	43	111	0.019	0.248	25	Q
2-Methylnaphthalene	0.018	0.00078	0.016	0.0019	102	39	114	0.018	2.87	25	
Acenaphthene	0.018	0.00078	0.016	0.0012	108	44	111	0.017	4.58	25	
Acenaphthylene	0.018	0.00078	0.016	0.00090	111	39	116	0.018	2.02	25	
Anthracene	0.021	0.00078	0.016	0.0024	121	50	114	0.019	10.1	25	Q
Benzo(a)anthracene	0.045	0.00078	0.016	0.014	200	54	122	0.027	49.5	25	JRQ
Benzo(a)pyrene	0.034	0.00078	0.016	0.013	141	50	125	0.024	36.8	25	RQ
Benzo(b)fluoranthene	0.050	0.00078	0.016	0.023	175	53	128	0.040	22.4	25	JQ
Benzo(g,h,i)perylene	0.015	0.00078	0.016	0	97.2	49	127	0.012	24.8	25	
Benzo(k)fluoranthene	0.027	0.00078	0.016	0.0053	142	56	123	0.018	41.4	25	RQ
Chrysene	0.038	0.00078	0.016	0.014	152	57	118	0.027	32.4	25	RQ
Dibenzo(a,h)anthracene	0.0013	0.00078	0.016	0	8.49	50	129	0.011	157	25	RQ
Fluoranthene	0.066	0.00078	0.016	0.028	245	55	119	0.036	58.1	25	JRQ
Fluorene	0.018	0.00078	0.016	0.0013	106	47	114	0.017	4.53	25	
Indeno(1,2,3-cd)pyrene	0.015	0.00078	0.016	0.0053	63.1	49	130	0.012	24.8	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	H2-SS02-02SD1	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706920

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.017	0.00078	0.016	0.0014	100	38	111	0.017	1.78	25	
Phenanthrene	0.034	0.00078	0.016	0.015	124	49	113	0.027	23.6	25	Q
Pyrene	0.059	0.00078	0.016	0.023	232	55	117	0.033	56.2	25	JRQ
Surr: 2-Fluorobiphenyl	25		19.41		129	46	115		0	25	Q
Surr: Nitrobenzene-d5	29		19.41		151	44	125		0	25	Q
Surr: Terphenyl-d14	29		19.41		150	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40326**

Sample ID:	MB-40326	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	PBS	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691398

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	8.6	20									J
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40326	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	LCSS	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691399

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	113	74	119				
Antimony	26	1.0	25	0	104	79	114				
Arsenic	24	2.0	25	0	95.2	82	111				
Barium	25	10	25	0	98.8	83	113				
Beryllium	25	0.25	25	0	101	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40326

Sample ID:	LCS-40326	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	LCSS	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691399

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	25	0.25	25	0	98.7	82	113				
Calcium	250	50	250	0	102	81	116				
Chromium	26	0.50	25	0	106	85	113				
Cobalt	26	1.0	25	0	105	85	112				
Copper	27	5.0	25	0	109	81	117				
Iron	260	15	250	0	102	81	118				
Lead	26	5.0	25	0	103	81	112				
Magnesium	250	50	250	0	102	78	115				
Manganese	28	1.0	25	0	110	84	114				
Nickel	25	5.0	25	0	101	83	113				
Potassium	220	20	250	0	89.5	81	116				
Selenium	26	2.0	25	0	105	78	111				
Silver	25	1.0	25	0	99.5	82	112				
Sodium	240	50	250	0	96.9	83	118				
Vanadium	26	2.5	25	0	103	82	114				
Zinc	25	5.0	25	0	99.2	82	113				

Sample ID:	1606601-008CMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	H2-SS02-02MS1	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691401

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	14,000	3.8	19	10,000	16,900	74	119				Q
Antimony	23	0.76	19	3.8	103	79	114				
Arsenic	20	1.5	19	2.5	94.8	82	111				
Barium	64	7.6	19	35	152	83	113				Q
Beryllium	19	0.19	19	0.20	100	83	113				
Cadmium	19	0.19	19	0.14	102	82	113				
Calcium	1,100	38	190	650	229	81	116				Q
Chromium	40	0.38	19	18	117	85	113				Q
Cobalt	23	0.76	19	3.8	101	85	112				
Copper	72	3.8	19	42	162	81	117				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40326

Sample ID: **1606601-008CMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/1/2016** RunNo: **87158**

Client ID: **H2-SS02-02MS1** Batch ID: **40326** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/5/2016** SeqNo: **1691401**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	17,000	11	190	14,000	1,820	81	118				JQ
Lead	26	3.8	19	7.4	97.5	81	112				
Magnesium	3,000	38	190	2,100	453	78	115				JQ
Manganese	310	0.76	19	230	414	84	114				JQ
Nickel	30	3.8	19	9.3	109	83	113				
Potassium	2,000	15	190	1,400	328	81	116				JQ
Selenium	16	1.5	19	0	83.2	78	111				
Silver	19	0.76	19	0	100	82	112				
Sodium	330	38	190	83	129	83	118				Q
Vanadium	47	1.9	19	23	123	82	114				JQ
Zinc	150	3.8	19	110	214	82	113				Q

Sample ID: **1606601-008CMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/1/2016** RunNo: **87158**

Client ID: **H2-SS02-02SD1** Batch ID: **40326** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/5/2016** SeqNo: **1691402**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	13,000	3.8	19	10,000	14,300	74	119	14,000	3.36	20	Q
Antimony	24	0.76	19	3.8	106	79	114	23	3.50	20	
Arsenic	22	1.5	19	2.5	99.9	82	111	20	5.78	20	
Barium	60	7.6	19	35	134	83	113	64	4.99	20	Q
Beryllium	20	0.19	19	0.20	103	83	113	19	3.94	20	
Cadmium	20	0.19	19	0.14	103	82	113	19	2.60	20	
Calcium	990	38	190	650	181	81	116	1,100	8.25	20	Q
Chromium	41	0.38	19	18	123	85	113	40	3.22	20	Q
Cobalt	23	0.76	19	3.8	103	85	112	23	2.93	20	
Copper	69	3.8	19	42	146	81	117	72	3.82	20	Q
Iron	16,000	11	190	14,000	1,250	81	118	17,000	6.27	20	JQ
Lead	27	3.8	19	7.4	104	81	112	26	5.94	20	
Magnesium	2,700	38	190	2,100	289	78	115	3,000	10.7	20	JQ
Manganese	290	0.76	19	230	303	84	114	310	6.78	20	JQ
Nickel	31	3.8	19	9.3	112	83	113	30	2.91	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40326**

Sample ID:	1606601-008CMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/1/2016	RunNo:	87158
Client ID:	H2-SS02-02SD1	Batch ID:	40326	TestNo:	SW6010B	SW3050B		Analysis Date:	7/5/2016	SeqNo:	1691402

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,800	15	190	1,400	244	81	116	2,000	7.91	20	Q
Selenium	16	1.5	19	0	84.4	78	111	16	2.75	20	
Silver	20	0.76	19	0	102	82	112	19	3.49	20	
Sodium	320	38	190	83	122	83	118	330	2.96	20	Q
Vanadium	46	1.9	19	23	120	82	114	47	0.470	20	JQ
Zinc	150	3.8	19	110	208	82	113	150	0.517	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	MB-40406	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	PBS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703715

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	27	5.0	25	0	109	74	119				
Antimony	25	1.0	25	0	100	79	114				
Arsenic	23	2.0	25	0	93.5	82	111				
Barium	26	10	25	0	103	83	113				
Beryllium	25	0.25	25	0	100	83	113				
Cadmium	23	0.25	25	0	91.7	82	113				
Calcium	250	50	250	0	98.5	81	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cobalt	24	1.0	25	0	97.5	85	112				
Copper	27	5.0	25	0	107	81	117				
Iron	240	15	250	0	96.1	81	118				
Lead	25	5.0	25	0	99.5	81	112				
Magnesium	250	50	250	0	99.6	78	115				
Manganese	26	1.0	25	0	105	84	114				
Nickel	25	5.0	25	0	100	83	113				
Potassium	260	20	250	0	103	81	116				
Selenium	25	2.0	25	0	101	78	111				
Silver	23	1.0	25	0	91.6	82	112				
Sodium	260	50	250	0	102	83	118				
Vanadium	25	2.5	25	0	98.6	82	114				

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	17,000	3.8	19	15,000	9,960	74	119				Q
Antimony	22	0.76	19	3.2	96.0	79	114				
Arsenic	22	1.5	19	3.7	95.5	82	111				
Barium	59	7.6	19	38	112	83	113				
Beryllium	19	0.19	19	0.17	96.5	83	113				
Cadmium	18	0.19	19	0.063	94.9	82	113				
Calcium	1,000	38	190	620	218	81	116				Q
Cobalt	21	0.76	19	3.4	92.8	85	112				
Copper	71	3.8	19	38	171	81	117				Q
Iron	15,000	11	190	14,000	589	81	118				JQ
Lead	24	3.8	19	5.8	97.2	81	112				
Magnesium	2,600	38	190	2,200	207	78	115				JQ
Manganese	190	0.76	19	160	186	84	114				JQ
Nickel	34	3.8	19	10	126	83	113				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,400	15	190	1,100	158	81	116				Q
Selenium	13	1.5	19	0	67.5	78	111				Q
Silver	18	0.76	19	0	95.5	82	112				
Sodium	320	38	190	91	120	83	118				Q
Vanadium	48	1.9	19	27	111	82	114				J

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703719

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	18,000	3.8	19	15,000	16,700	74	119	17,000	7.32	20	Q
Antimony	20	0.76	19	3.2	90.1	79	114	22	5.92	20	
Arsenic	20	1.5	19	3.7	86.9	82	111	22	8.31	20	
Barium	61	7.6	19	38	125	83	113	59	3.92	20	Q
Beryllium	18	0.19	19	0.17	91.6	83	113	19	5.73	20	
Cadmium	17	0.19	19	0.063	89.0	82	113	18	7.00	20	
Calcium	910	38	190	620	155	81	116	1,000	12.5	20	Q
Cobalt	20	0.76	19	3.4	87.3	85	112	21	5.66	20	
Copper	69	3.8	19	38	163	81	117	71	2.53	20	Q
Iron	16,000	11	190	14,000	1,210	81	118	15,000	7.45	20	JQ
Lead	23	3.8	19	5.8	90.4	81	112	24	5.96	20	
Magnesium	2,400	38	190	2,200	108	78	115	2,600	7.72	20	J
Manganese	180	0.76	19	160	104	84	114	190	8.58	20	
Nickel	31	3.8	19	10	111	83	113	34	8.77	20	
Potassium	1,200	15	190	1,100	85.3	81	116	1,400	10.9	20	
Selenium	10	1.5	19	0	52.8	78	111	13	25.2	20	RQ
Silver	17	0.76	19	0	88.7	82	112	18	7.99	20	
Sodium	270	38	190	91	96.7	83	118	320	15.0	20	
Vanadium	46	1.9	19	27	101	82	114	48	4.29	20	J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	MB-40406	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	PBS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706197

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	0.50	0.50									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706198

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	26	0.50	25	0	104	85	113				
Zinc	25	5.0	25	0	99.4	82	113				

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706200

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	42	0.38	19	19	116	85	113				Q
Zinc	67	3.8	19	28	205	82	113				Q

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706201

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	38	0.38	19	19	96.9	85	113	42	9.34	20	
Zinc	57	3.8	19	28	154	82	113	67	16.0	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40409

Sample ID:	LCS-40409	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	LCSS	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697329

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.8	0.20	10	0	97.9	83	118				

Sample ID:	MB-40409	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	PBS	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697330

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697332

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.5	0.16	7.9	0.096	94.3	83	118				

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697333

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.9	0.16	7.9	0.096	86.2	83	118	7.5	8.82	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40445

Sample ID:	MB-40445	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	PBS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700107

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	2.1	50									J
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40445	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	LCSS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	26	5.0	25	0	104	74	119				
Antimony	25	1.0	25	0	99.8	79	114				
Arsenic	24	2.0	25	0	97.0	82	111				
Barium	25	10	25	0	99.3	83	113				
Beryllium	24	0.25	25	0	96.0	83	113				
Cadmium	24	0.25	25	0	96.3	82	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40445**

Sample ID:	LCS-40445	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	LCSS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Calcium	230	50	250	0	90.9	81	116				
Cobalt	26	1.0	25	0	103	85	112				
Copper	27	5.0	25	0	106	81	117				
Iron	230	15	250	0	92.0	81	118				
Lead	26	5.0	25	0	103	81	112				
Magnesium	240	50	250	0	96.1	78	115				
Manganese	27	1.0	25	0	107	84	114				
Nickel	25	5.0	25	0	101	83	113				
Potassium	240	20	250	0	97.1	81	116				
Selenium	26	2.0	25	0	103	78	111				
Silver	24	1.0	25	0	95.6	82	112				
Sodium	240	50	250	0	96.0	83	118				
Vanadium	25	2.5	25	0	100	82	114				
Zinc	25	5.0	25	0	99.7	82	113				

Sample ID:	1606652-015FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700110

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	6,800	3.6	18	6,000	4,650	74	119				Q
Antimony	20	0.72	18	3.0	95.9	79	114				
Arsenic	19	1.4	18	1.4	100	82	111				
Barium	35	7.2	18	16	105	83	113				
Beryllium	17	0.18	18	0	96.7	83	113				
Cadmium	18	0.18	18	0.031	97.7	82	113				
Calcium	1,300	36	180	640	356	81	116				Q
Cobalt	20	0.72	18	3.3	92.8	85	112				
Copper	54	3.6	18	29	138	81	117				Q
Iron	13,000	11	180	11,000	1,130	81	118				JQ
Lead	20	3.6	18	2.2	97.0	81	112				
Magnesium	1,500	36	180	1,300	103	78	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40445

Sample ID:	1606652-015FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700110

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Manganese	180	0.72	18	180	-16.1	84	114				JQ
Nickel	23	3.6	18	6.5	94.0	83	113				
Potassium	990	14	180	840	84.0	81	116				
Selenium	12	1.4	18	0	69.2	78	111				Q
Silver	17	0.72	18	0	96.6	82	112				
Sodium	270	36	180	77	107	83	118				
Vanadium	41	1.8	18	19	122	82	114				JQ
Zinc	31	3.6	18	14	94.6	82	113				

Sample ID:	1606652-015FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700111

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,000	3.5	18	6,000	5,690	74	119	6,800	2.52	20	Q
Antimony	20	0.71	18	3.0	96.4	79	114	20	0.649	20	
Arsenic	19	1.4	18	1.4	101	82	111	19	0.683	20	
Barium	36	7.1	18	16	112	83	113	35	3.16	20	
Beryllium	17	0.18	18	0	97.3	83	113	17	0.636	20	
Cadmium	17	0.18	18	0.031	97.7	82	113	18	1.34	20	
Calcium	860	35	180	640	124	81	116	1,300	38.9	20	RQ
Cobalt	20	0.71	18	3.3	93.1	85	112	20	0.764	20	
Copper	54	3.5	18	29	144	81	117	54	1.15	20	Q
Iron	14,000	11	180	11,000	1,460	81	118	13,000	4.16	20	JQ
Lead	19	3.5	18	2.2	95.5	81	112	20	2.51	20	
Magnesium	1,600	35	180	1,300	171	78	115	1,500	7.59	20	Q
Manganese	220	0.71	18	180	197	84	114	180	18.9	20	JQ
Nickel	23	3.5	18	6.5	95.4	83	113	23	0.203	20	
Potassium	950	14	180	840	63.5	81	116	990	3.93	20	Q
Selenium	13	1.4	18	0	72.4	78	111	12	3.20	20	Q
Silver	17	0.71	18	0	97.5	82	112	17	0.368	20	
Sodium	240	35	180	77	92.8	83	118	270	11.1	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40445

Sample ID:	1606652-015FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541	
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700111	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Vanadium	38	1.8	18	19	109	82	114	41	6.75	20	J	
Zinc	30	3.5	18	14	94.0	82	113	31	1.05	20		

Sample ID:	MB-40445	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	PBS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701727	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	0.50	0.50									U	

Sample ID:	LCS-40445	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	LCSS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701729	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	25	0.50	25	0	101	85	113					

Sample ID:	1606652-015FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701733	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	29	0.36	18	10	101	85	113					

Sample ID:	1606652-015FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	ZZZZZZ	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701734	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	30	0.35	18	10	110	85	113	29	4.61	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40483**

Sample ID:	1606601-008BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	H2-SS02-02MS1	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699789

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.039	0.20	0	66.7	46	129				
Aroclor 1260	0.16	0.039	0.20	0	83.0	45	134				
Surr: Tetrachloro-m-xylene	6.3		9.865		64.2	44	130				
Surr: Decachlorobiphenyl	7.9		9.865		80.5	40	135				

Sample ID:	1606601-008BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	H2-SS02-02SD1	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699790

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.039	0.20	0	75.5	46	129	0.13	11.2	25	
Aroclor 1260	0.18	0.039	0.20	0	93.9	45	134	0.16	11.2	25	
Surr: Tetrachloro-m-xylene	7.0		9.755		71.9	44	130		0	25	
Surr: Decachlorobiphenyl	8.7		9.755		89.7	40	135		0	25	

Sample ID:	LCS-40483	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	LCSS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699817

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.19	0.033	0.16	0	113	46	129				
Aroclor 1260	0.20	0.033	0.16	0	121	45	134				
Surr: Tetrachloro-m-xylene	8.6		8.234		105	44	130				
Surr: Decachlorobiphenyl	9.7		8.234		118	40	135				

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40483

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.5		8.297		90.5	44	130				
Surr: Decachlorobiphenyl	8.3		8.297		99.9	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40503**

Sample ID:	1606601-008CMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/22/2016	RunNo:	87592
Client ID:	H2-SS02-02MS1	Batch ID:	40503	TestNo:	SW6020A	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701599

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.8	0.16	7.9	0.13	85.4	83	118				G

Sample ID:	LCS-40503	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/22/2016	RunNo:	87592
Client ID:	LCSS	Batch ID:	40503	TestNo:	SW6020A	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701600

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.7	0.20	10	0	97.4	83	118				G

Sample ID:	MB-40503	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/22/2016	RunNo:	87592
Client ID:	PBS	Batch ID:	40503	TestNo:	SW6020A	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701601

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									UG

Sample ID:	1606601-008CMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/22/2016	RunNo:	87592
Client ID:	H2-SS02-02SD1	Batch ID:	40503	TestNo:	SW6020A	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701602

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.5	0.16	7.9	0.13	94.1	83	118	6.8	9.51	20	G

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86819**

Sample ID:	**1606593-006C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86819**
Client ID:	**ZZZZZZ**	Batch ID:	**R86819**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684508**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	3.4	1.0						3.340	1.63	20	

Sample ID:	**1606601-005C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/20/2016**	RunNo:	**86819**
Client ID:	**H2-SS01-01LR1**	Batch ID:	**R86819**	TestNo:	**D2216**			Analysis Date:	**6/20/2016**	SeqNo:	**1684527**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	9.1	1.0						9.556	5.25	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86865**

Sample ID:	**1606601-008C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/21/2016**	RunNo:	**86865**
Client ID:	**H2-SS02-02LR1**	Batch ID:	**R86865**	TestNo:	**D2216**			Analysis Date:	**6/21/2016**	SeqNo:	**1685491**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	19	1.0						15.64	18.8	20	

Sample ID:	**1606603-010A DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/21/2016**	RunNo:	**86865**
Client ID:	**ZZZZZZ**	Batch ID:	**R86865**	TestNo:	**D2216**			Analysis Date:	**6/21/2016**	SeqNo:	**1685502**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	13	1.0						14.85	11.2	20	

RTI Laboratories - Definitions and Acronyms

WO#: 1606601

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

a- 1606601

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061516-06
Batch May16

	Database Information					Other Sample Information					Analysis											
	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	H1-SS01	00	01	N	1	H1-SS01-01	6/15/16	0840	SS	3	045					1			1	1			
2	H1-SS01	01	02	N	1	H1-SS01-02	↓	0850	SS	↓	↓					↓			↓	↓			
3	H1-SS02	00	01	N	1	H1-SS02-01		0900	SS														
4	H1-SS02	01	02	N	1	H1-SS02-02		0905	SS														
5	H2-SS01	00	01	N	1	H2-SS01-01		0940	SS														
6	H2-SS01	01	02	N	1	H2-SS01-02		0950	SS														
7	H2-SS02	00	01	N	1	H2-SS02-01		1000	SS														
8	H2-SS02	01	02	N	1	H2-SS02-02		1010	SS														
9	H2-SS02	01	02	MS	1	H2-SS02-02MS		1010	SS														matrix spike
10	H2-SS02	01	02	SD	1	H2-SS02-02MSD		1010	SS														spike Duplicate
11																							
12																							
13																							

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
[illegible] / AECOM	6/15/16	1400	REFER TO FEDEX	6/15/16	1400
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			[illegible] / RTI	6/17/16	0950
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 5103 8020 2567 0

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

D1

Cooler Temp 1.4°C

CUSTODY SEALS

Date 10/15/19

Signature

Cooler ID: D1

CUSTODY SEALS

Date 10/15/19

Signature

Shipper Company:	AECOM GCP	**Recipient Company:**	RTI LABORATORIES ENV SCI DIV
Name:	AMANDA MARTIN	**Name:**	KATHY GRIFFIN
Address:	3101 WILSON BLVD STE 900	**Address:**	31628 GLENDALE STREET
Additional Address:		**Additional Address:**	
City:	ARLINGTON	**City:**	LIVONIA
State/Province:	VA	**State/Province:**	MI
Postal:	22201-4446	**Postal:**	48150
Country:	US - UNITED STATES	**Country:**	US - UNITED STATES
Shipper Phone:	4346648047	**Recipient Phone:**	7342922100

Original Address

PACKAGE TRACKING NUMBER: 810302025670

FedEx.

TRK# 0201 8103 0202 5670

AA

STANDARD OVERNIGHT

ET CFAA

48150

MI-US

DTW

Shipper Company:	AECOM GCP	Recipient Company:	RTI LABORATORIES ENV SCI DIV
Name:	AMANDA MARTIN	Name:	KATHY GRIFFIN
Address:	3101 WILSON BLVD STE 900	Address:	31628 GLENDALE STREET
Additional Address:		Additional Address:	
City:	ARLINGTON	City:	LIVONIA
State/Province:	VA	State/Province:	MI
Postal:	22201-4446	Postal:	48150
Country:	US - UNITED STATES	Country:	US - UNITED STATES
Shipper Phone:	4346648047	Recipient Phone:	7342922100

Original Address

PACKAGE TRACKING NUMBER: 810302025670

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606603

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606603-001A	STB-SB01-05		6/15/2016 9:55 AM	6/17/2016 9:55 AM	Soil
1606603-002A	STB-SB02-06		6/15/2016 9:37 AM	6/17/2016 9:50 AM	Soil
1606603-003A	STB-SB03-06		6/15/2016 9:30 AM	6/17/2016 9:50 AM	Soil
1606603-004A	STB-SB04-06		6/15/2016 10:05 AM	6/17/2016 9:50 AM	Soil
1606603-005A	STB-SB04-06 DUP		6/15/2016 10:05 AM	6/17/2016 9:50 AM	Soil
1606603-006A	STB-SS05-01		6/15/2016 10:30 AM	6/17/2016 9:50 AM	Soil
1606603-007A	STB-SS06-01		6/15/2016 10:20 AM	6/17/2016 9:50 AM	Soil
1606603-008A	STB-SS07-01		6/15/2016 10:25 AM	6/17/2016 9:50 AM	Soil
1606603-009A	WDS-SB20-06		6/15/2016 9:15 AM	6/17/2016 9:50 AM	Soil
1606603-009B	WDS-SB20-06		6/15/2016 9:15 AM	6/17/2016 9:50 AM	Soil
1606603-009C	WDS-SB20-06		6/15/2016 9:15 AM	6/17/2016 9:50 AM	Soil
1606603-010A	2010-SB01-04		6/15/2016 9:00 AM	6/17/2016 9:50 AM	Soil
1606603-011A	2010-SB01-05		6/15/2016 9:05 AM	6/17/2016 9:50 AM	Soil
1606603-012A	2010-SB01-06		6/15/2016 9:07 AM	6/17/2016 9:50 AM	Soil
1606603-013A	2010-SB01-07		6/15/2016 9:10 AM	6/17/2016 9:50 AM	Soil
1606603-014A	2010-SB02-04		6/15/2016 8:40 AM	6/17/2016 9:50 AM	Soil
1606603-015A	2010-SB02-04 DUP		6/15/2016 8:40 AM	6/17/2016 9:50 AM	Soil
1606603-016A	2010-SB02-05		6/15/2016 8:45 AM	6/17/2016 9:50 AM	Soil
1606603-017A	2010-SB02-05 DUP		6/15/2016 8:45 AM	6/17/2016 9:50 AM	Soil
1606603-018A	2010-SB02-06		6/15/2016 8:50 AM	6/17/2016 9:50 AM	Soil
1606603-019A	2010-SB02-07		6/15/2016 8:55 AM	6/17/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/OES - 6010C-STAR
- Metals, ICP/MS - 6020A-TL
- Polychlorinated Biphenyls - 8082A
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM
- Semi-Volatile Organic Compounds - 8270D-SIM-STAR

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87828, Batch ID R87828:
- Sample ICV S8 080216: Bis(2-chloroisopropyl) ether and 4,6-Dinitro-2-methylphenol exceeded QC limits.
- Sample CCV S8 080316: Benzoic acid, Pentachlorophenol, 4,6-Dinitro-2-methylphenol and Bis(2-chloroisopropyl) ether exceeded QC limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87828, Batch ID 40244:
- Sample 1606603-009A-: Surrogate recoveries for 2,4,6-Tribromophenol, 2-Fluoribiphenyl and Terphenyl-d14 were outside the control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87747, Batch ID R87747:
- Sample ICV S8 08021: Bis(2-chloroisopropyl) ether exceeded QC limits.
- Sample CCV S8 070816: CCV results for 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitroaniline, 2-Nitrophenol, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline and 4-Nitrophenol exceeded control criteria, all high.
- Sample CCVE S8 070816: Ending CCV results for Benzoic acid, N-nitrosodipropylamine exceeded the 50% criteria.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87747, Batch ID 40244:
- Sample 1606601-008A MS: Spike recoveies for 4-Nitroaniline and 3,3-Dichlorobenzidine were outside the control limits.
- Sample 1606601-008A MSD: Spike recoveries, Surrogates and RPDs for several compounds were outside the control limits.
- Sample LCS-40244: Spike recoveries for Benzoic Acid and 3,3-Dichlorobenzidine were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87837, Batch ID 40280:
- Sample 1606603-002A: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-D5, and Terphenyl-d14 were outside the control limits.
- Sample 1606603-005A: Surrogate recovery for Terphenyl-d14 was outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87766, Batch ID 40280:
- Sample MB-40280: Surrogate recoveries for 2-Fluorobiphenyl and Nitrobenzene-D5 were outside the control limits.
- SampleLCS-40280: Spike recovery for 1-Methylnaphthalene was outside the control limits. Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-D5, and Terphenyl-d14 were outside the control limits.
- Samples 1606601-008A MS/MSD: Several spike, surrogate recoveries and RPDs were outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87852, Batch ID 40481:
- Samples 1606652-014F MS/MSD: Spike recoveries for several analytes were outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:55:00 AM
Project:	Camp Hero		
Lab ID:	1606603-001	**Matrix:**	Soil
Client Sample ID:	STB-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR SW3550C**					**Analyst: STM**
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Benz(a)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Benzo(a)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Benzo(b)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Benzo(g,h,i)perylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Benzo(k)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Chrysene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Phenanthrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 3:20 PM
Surr: 2-Fluorobiphenyl	89.8			46-115		%Rec	1	8/3/2016 3:20 PM
Surr: Nitrobenzene-d5	101			44-125		%Rec	1	8/3/2016 3:20 PM
Surr: Terphenyl-d14	98.1			58-133		%Rec	1	8/3/2016 3:20 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:37:00 AM
Project:	Camp Hero		
Lab ID:	1606603-002	**Matrix:**	Soil
Client Sample ID:	STB-SB02-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Acenaphthylene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Benz(a)anthracene	0.0050		0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Benzo(a)pyrene	0.0048		0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Benzo(b)fluoranthene	0.0083		0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Benzo(g,h,i)perylene	0.0036		0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Benzo(k)fluoranthene	0.0028		0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Chrysene	0.0060		0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Dibenzo(a,h)anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Fluoranthene	0.014		0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Fluorene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Indeno(1,2,3-cd)pyrene	0.0036		0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Phenanthrene	0.0060		0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Pyrene	0.010		0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 5:11 PM
Surr: 2-Fluorobiphenyl	122	Q		46-115		%Rec	1	8/3/2016 5:11 PM
Surr: Nitrobenzene-d5	140	Q		44-125		%Rec	1	8/3/2016 5:11 PM
Surr: Terphenyl-d14	135	Q		58-133		%Rec	1	8/3/2016 5:11 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:30:00 AM
Project:	Camp Hero		
Lab ID:	1606603-003	**Matrix:**	Soil
Client Sample ID:	STB-SB03-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Acenaphthylene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Anthracene	0.0011		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Benz(a)anthracene	0.0062		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Benzo(a)pyrene	0.0054		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Benzo(b)fluoranthene	0.010		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Benzo(g,h,i)perylene	0.0026		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Benzo(k)fluoranthene	0.0034		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Chrysene	0.0058		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Dibenzo(a,h)anthracene	0.00082	U	0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Fluoranthene	0.016		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Fluorene	0.00083		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Indeno(1,2,3-cd)pyrene	0.0026		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Phenanthrene	0.0082		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Pyrene	0.012		0.00082	0.00082	0.00082	mg/Kg-dry	1	8/4/2016 3:39 PM
Surr: 2-Fluorobiphenyl	52.3			46-115		%Rec	1	8/4/2016 3:39 PM
Surr: Nitrobenzene-d5	64.2			44-125		%Rec	1	8/4/2016 3:39 PM
Surr: Terphenyl-d14	61.1			58-133		%Rec	1	8/4/2016 3:39 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:05:00 AM
Project:	Camp Hero		
Lab ID:	1606603-004	**Matrix:**	Soil
Client Sample ID:	STB-SB04-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Benz(a)anthracene	0.0014		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Benzo(a)pyrene	0.0011		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Benzo(b)fluoranthene	0.0023		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Benzo(g,h,i)perylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Benzo(k)fluoranthene	0.00083		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Chrysene	0.0016		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Fluoranthene	0.0035		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Phenanthrene	0.0018		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Pyrene	0.0030		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/4/2016 12:32 AM
Surr: 2-Fluorobiphenyl	57.9			46-115		%Rec	1	8/4/2016 12:32 AM
Surr: Nitrobenzene-d5	67.8			44-125		%Rec	1	8/4/2016 12:32 AM
Surr: Terphenyl-d14	67.0			58-133		%Rec	1	8/4/2016 12:32 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:05:00 AM
Project:	Camp Hero		
Lab ID:	1606603-005	**Matrix:**	Soil
Client Sample ID:	STB-SB04-06 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Anthracene	0.0023		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Benz(a)anthracene	0.010		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Benzo(a)pyrene	0.0067		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Benzo(b)fluoranthene	0.010		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Benzo(g,h,i)perylene	0.0036		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Benzo(k)fluoranthene	0.0029		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Chrysene	0.0085		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Fluoranthene	0.022		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Indeno(1,2,3-cd)pyrene	0.0036		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Phenanthrene	0.0083		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Pyrene	0.017		0.00076	0.00076	0.00076	mg/Kg-dry	1	8/3/2016 7:31 PM
Surr: 2-Fluorobiphenyl	52.3			46-115		%Rec	1	8/3/2016 7:31 PM
Surr: Nitrobenzene-d5	61.2			44-125		%Rec	1	8/3/2016 7:31 PM
Surr: Terphenyl-d14	57.6	Q		58-133		%Rec	1	8/3/2016 7:31 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:30:00 AM
Project:	Camp Hero		
Lab ID:	1606603-006	**Matrix:**	Soil
Client Sample ID:	STB-SS05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00079		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Acenaphthylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Anthracene	0.0021		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Benz(a)anthracene	0.011		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Benzo(a)pyrene	0.0095		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Benzo(b)fluoranthene	0.017		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Benzo(g,h,i)perylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Benzo(k)fluoranthene	0.0036		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Chrysene	0.011		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Fluoranthene	0.025		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Fluorene	0.00080		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Indeno(1,2,3-cd)pyrene	0.0062		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Phenanthrene	0.010		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Pyrene	0.020		0.00075	0.00075	0.00075	mg/Kg-dry	1	8/3/2016 7:58 PM
Surr: 2-Fluorobiphenyl	61.0			46-115		%Rec	1	8/3/2016 7:58 PM
Surr: Nitrobenzene-d5	70.8			44-125		%Rec	1	8/3/2016 7:58 PM
Surr: Terphenyl-d14	68.8			58-133		%Rec	1	8/3/2016 7:58 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:20:00 AM
Project:	Camp Hero		
Lab ID:	1606603-007	**Matrix:**	Soil
Client Sample ID:	STB-SS06-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.00096		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Anthracene	0.0023		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Benz(a)anthracene	0.016		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Benzo(a)pyrene	0.015		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Benzo(b)fluoranthene	0.024		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Benzo(g,h,i)perylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Benzo(k)fluoranthene	0.0071		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Chrysene	0.016		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Fluoranthene	0.036		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Fluorene	0.00097		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Indeno(1,2,3-cd)pyrene	0.0081		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Phenanthrene	0.015		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Pyrene	0.030		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 8:26 PM
Surr: 2-Fluorobiphenyl	56.5			46-115		%Rec	1	8/3/2016 8:26 PM
Surr: Nitrobenzene-d5	68.2			44-125		%Rec	1	8/3/2016 8:26 PM
Surr: Terphenyl-d14	69.1			58-133		%Rec	1	8/3/2016 8:26 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 10:25:00 AM
Project:	Camp Hero		
Lab ID:	1606603-008	**Matrix:**	Soil
Client Sample ID:	STB-SS07-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Semi-Volatile Organic Compounds			**Method: 8270D-SIM-STAR**		**SW3550C**			**Analyst: STM**
Acenaphthene	0.0010		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Acenaphthylene	0.0018		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Anthracene	0.0026		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Benz(a)anthracene	0.017		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Benzo(a)pyrene	0.015		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Benzo(b)fluoranthene	0.024		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Benzo(g,h,i)perylene	0.0067		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Benzo(k)fluoranthene	0.011		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Chrysene	0.015		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Dibenzo(a,h)anthracene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Fluoranthene	0.036		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Fluorene	0.0012		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Indeno(1,2,3-cd)pyrene	0.0067		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Phenanthrene	0.015		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Pyrene	0.031		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/3/2016 8:53 PM
Surr: 2-Fluorobiphenyl	59.2			46-115		%Rec	1	8/3/2016 8:53 PM
Surr: Nitrobenzene-d5	76.4			44-125		%Rec	1	8/3/2016 8:53 PM
Surr: Terphenyl-d14	67.5			58-133		%Rec	1	8/3/2016 8:53 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 9:15:00 AM
Project: Camp Hero
Lab ID: 1606603-009 **Matrix:** Soil
Client Sample ID: WDS-SB20-06

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0079	U	0.0036	0.0079	0.039	mg/Kg-dry	1	7/21/2016 8:36 AM
Aroclor 1221	0.0079	U	0.0036	0.0079	0.039	mg/Kg-dry	1	7/21/2016 8:36 AM
Aroclor 1232	0.0079	U	0.0054	0.0079	0.039	mg/Kg-dry	1	7/21/2016 8:36 AM
Aroclor 1242	0.0079	U	0.0044	0.0079	0.039	mg/Kg-dry	1	7/21/2016 8:36 AM
Aroclor 1248	0.0079	U	0.0042	0.0079	0.039	mg/Kg-dry	1	7/21/2016 8:36 AM
Aroclor 1254	0.0079	U	0.0050	0.0079	0.039	mg/Kg-dry	1	7/21/2016 8:36 AM
Aroclor 1260	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	7/21/2016 8:36 AM
Aroclor 1262	0.0079	U	0.0035	0.0079	0.039	mg/Kg-dry	1	7/21/2016 8:36 AM
Aroclor 1268	0.0079	U	0.0029	0.0079	0.039	mg/Kg-dry	1	7/21/2016 8:36 AM
Surr: Tetrachloro-m-xylene	69.9			44-130		%Rec	1	7/21/2016 8:36 AM
Surr: Decachlorobiphenyl	93.9			60-125		%Rec	1	7/21/2016 8:36 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	15,000		59	160	400	mg/Kg-dry	100	8/4/2016 1:34 PM
Antimony	4.6		0.30	0.40	0.79	mg/Kg-dry	1	8/4/2016 12:13 PM
Arsenic	2.2		0.57	0.79	1.6	mg/Kg-dry	1	8/4/2016 12:13 PM
Barium	51		0.24	4.0	7.9	mg/Kg-dry	1	8/4/2016 12:13 PM
Beryllium	0.35		0.010	0.040	0.20	mg/Kg-dry	1	8/4/2016 12:13 PM
Cadmium	0.027	J	0.026	0.040	0.20	mg/Kg-dry	1	8/4/2016 12:13 PM
Calcium	840		2.3	7.9	40	mg/Kg-dry	1	8/4/2016 12:13 PM
Chromium	17		0.065	0.32	0.40	mg/Kg-dry	1	8/4/2016 12:13 PM
Cobalt	5.1		0.071	0.20	0.79	mg/Kg-dry	1	8/4/2016 12:13 PM
Copper	41		0.33	0.79	4.0	mg/Kg-dry	1	8/4/2016 12:13 PM
Iron	16,000		25	40	120	mg/Kg-dry	10	8/4/2016 1:05 PM
Lead	3.9	J	0.49	0.79	4.0	mg/Kg-dry	1	8/4/2016 12:13 PM
Magnesium	3,600		28	40	400	mg/Kg-dry	10	8/4/2016 1:05 PM
Manganese	330		1.5	2.0	7.9	mg/Kg-dry	10	8/4/2016 1:05 PM
Nickel	14		0.22	0.79	4.0	mg/Kg-dry	1	8/4/2016 12:13 PM
Potassium	2,400		18	79	160	mg/Kg-dry	10	8/4/2016 1:05 PM
Selenium	1.2	U	0.92	1.2	1.6	mg/Kg-dry	1	8/4/2016 12:13 PM
Silver	0.20	U	0.065	0.20	0.79	mg/Kg-dry	1	8/4/2016 12:13 PM
Sodium	120		1.6	4.0	40	mg/Kg-dry	1	8/4/2016 12:13 PM
Vanadium	29		0.10	0.79	2.0	mg/Kg-dry	1	8/4/2016 12:13 PM
Zinc	24		0.31	0.40	4.0	mg/Kg-dry	1	8/4/2016 12:13 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.16	G	0.038	0.039	0.16	mg/Kg-dry	10	7/25/2016 7:39 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
1,2-Dichlorobenzene	0.020	U	0.0085	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
1,3-Dichlorobenzene	0.020	U	0.0081	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
1,4-Dichlorobenzene	0.020	U	0.0063	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
2,4,5-Trichlorophenol	0.039	U	0.019	0.039	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 9:15:00 AM
Project: Camp Hero
Lab ID: 1606603-009 **Matrix:** Soil
Client Sample ID: WDS-SB20-06

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.039	U	0.022	0.039	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
2,4-Dichlorophenol	0.098	U	0.034	0.098	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
2,4-Dimethyl phenol	0.098	U	0.037	0.098	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
2,4-Dinitrophenol	0.20	U	0.11	0.20	0.97	mg/Kg-dry	1	8/3/2016 1:34 PM
2,4-Dinitrotoluene	0.020	U	0.017	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
2,6-Dinitrotoluene	0.020	U	0.019	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
2-Chloronaphthalene	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
2-Chlorophenol	0.098	U	0.041	0.098	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
2-Methylphenol (o-Cresol)	0.098	U	0.042	0.098	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
2-Nitroaniline	0.020	U	0.0095	0.020	0.38	mg/Kg-dry	1	8/3/2016 1:34 PM
2-Nitrophenol	0.098	U	0.048	0.098	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
3,3´-Dichlorobenzidine	0.78	U	0.50	0.78	1.2	mg/Kg-dry	1	8/3/2016 1:34 PM
3-Nitroaniline	0.020	U	0.014	0.020	0.38	mg/Kg-dry	1	8/3/2016 1:34 PM
3/4-Methylphenol [m/p-Cresol]	0.098	U	0.070	0.098	0.38	mg/Kg-dry	1	8/3/2016 1:34 PM
4,6-Dinitro-2-methylphenol	0.098	U	0.056	0.098	0.38	mg/Kg-dry	1	8/3/2016 1:34 PM
4-Bromophenyl phenyl ether	0.098	U	0.050	0.098	0.23	mg/Kg-dry	1	8/3/2016 1:34 PM
4-Chloro-3-methylphenol	0.039	U	0.020	0.039	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
4-Chloroaniline [p-Chloroaniline]	0.098	U	0.029	0.098	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
4-Chlorophenyl phenyl ether	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
4-Nitroaniline	0.098	U	0.028	0.098	0.38	mg/Kg-dry	1	8/3/2016 1:34 PM
4-Nitrophenol	0.39	U	0.28	0.39	0.97	mg/Kg-dry	1	8/3/2016 1:34 PM
Benzoic acid	0.39	UY	0.16	0.39	1.2	mg/Kg-dry	1	8/3/2016 1:34 PM
Benzyl alcohol	0.020	U	0.0094	0.020	0.77	mg/Kg-dry	1	8/3/2016 1:34 PM
Bis(2-chloroethoxy) methane	0.020	U	0.0081	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Bis(2-chloroethyl) ether	0.039	U	0.021	0.039	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Bis(2-chloroisopropyl)ether	0.020	UYZ	0.0089	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Bis(2-ethylhexyl) phthalate	0.039	U	0.035	0.039	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Butyl benzyl phthalate	0.039	U	0.023	0.039	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Carbazole	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Di-n-butyl phthalate	0.039	U	0.021	0.039	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Di-n-octyl phthalate	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Dibenzofuran	0.020	U	0.010	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Diethyl phthalate	0.020	U	0.014	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Dimethyl phthalate	0.020	U	0.013	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Hexachlorobenzene	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Hexachlorobutadiene	0.020	U	0.018	0.020	0.059	mg/Kg-dry	1	8/3/2016 1:34 PM
Hexachloroethane	0.020	U	0.0090	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Isophorone	0.020	U	0.0081	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
N-Nitroso-di-n-propylamine	0.020	U	0.011	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
N-Nitrosodimethylamine	0.020	U	0.0095	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
N-Nitrosodiphenylamine	0.020	U	0.0095	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Nitrobenzene	0.020	U	0.012	0.020	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Pentachlorophenol	0.098	UY	0.074	0.098	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Phenol	0.098	U	0.042	0.098	0.19	mg/Kg-dry	1	8/3/2016 1:34 PM
Surr: 2,4,6-Tribromophenol	32.7	JQ		39-132		%Rec	1	8/3/2016 1:34 PM
Surr: 2-Fluorobiphenyl	47.4			44-115		%Rec	1	8/3/2016 1:34 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606603-009	**Matrix:**	Soil
Client Sample ID:	WDS-SB20-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	34.9	JQ		35-115		%Rec	1	8/3/2016 1:34 PM
Surr: Nitrobenzene-d5	47.4			37-122		%Rec	1	8/3/2016 1:34 PM
Surr: Phenol-d5	37.1	J		33-122		%Rec	1	8/3/2016 1:34 PM
Surr: Terphenyl-d14	53.1	Q		54-127		%Rec	1	8/3/2016 1:34 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
2-Methylnaphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Acenaphthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Acenaphthylene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Benz(a)anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Benzo(a)pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Benzo(b)fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Benzo(g,h,i)perylene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Benzo(k)fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Chrysene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Dibenzo(a,h)anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Fluorene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Indeno(1,2,3-cd)pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Naphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Phenanthrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/3/2016 9:20 PM
Surr: 2-Fluorobiphenyl	63.1			46-115		%Rec	1	8/3/2016 9:20 PM
Surr: Nitrobenzene-d5	71.4			44-125		%Rec	1	8/3/2016 9:20 PM
Surr: Terphenyl-d14	72.6			58-133		%Rec	1	8/3/2016 9:20 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606603-010	**Matrix:**	Soil
Client Sample ID:	2010-SB01-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	3.5	J	0.47	0.76	3.8	mg/Kg-dry	1	6/30/2016 12:24 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606603-011	**Matrix:**	Soil
Client Sample ID:	2010-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	4.0		0.47	0.75	3.7	mg/Kg-dry	1	6/30/2016 12:43 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:07:00 AM
Project:	Camp Hero		
Lab ID:	1606603-012	**Matrix:**	Soil
Client Sample ID:	2010-SB01-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	4.6		0.44	0.70	3.5	mg/Kg-dry	1	6/30/2016 12:44 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	9.4		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:10:00 AM
Project:	Camp Hero		
Lab ID:	1606603-013	**Matrix:**	Soil
Client Sample ID:	2010-SB01-07		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	4.9		0.46	0.73	3.7	mg/Kg-dry	1	6/30/2016 12:52 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:40:00 AM
Project:	Camp Hero		
Lab ID:	1606603-014	**Matrix:**	Soil
Client Sample ID:	2010-SB02-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	20		0.53	0.85	4.2	mg/Kg-dry	1	6/30/2016 12:54 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	24		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:40:00 AM
Project:	Camp Hero		
Lab ID:	1606603-015	**Matrix:**	Soil
Client Sample ID:	2010-SB02-04 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	23		0.47	0.76	3.8	mg/Kg-dry	1	6/30/2016 12:55 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:45:00 AM
Project:	Camp Hero		
Lab ID:	1606603-016	**Matrix:**	Soil
Client Sample ID:	2010-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	6.2		0.52	0.84	4.2	mg/Kg-dry	1	6/30/2016 12:56 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	23		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:45:00 AM
Project:	Camp Hero		
Lab ID:	1606603-017	**Matrix:**	Soil
Client Sample ID:	2010-SB02-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	16		0.51	0.82	4.1	mg/Kg-dry	1	6/30/2016 12:58 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	21		1.0	1.0	1.0	wt%	1	6/21/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:50:00 AM
Project:	Camp Hero		
Lab ID:	1606603-018	**Matrix:**	Soil
Client Sample ID:	2010-SB02-06		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	5.7		0.44	0.71	3.6	mg/Kg-dry	1	6/30/2016 12:59 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:55:00 AM
Project:	Camp Hero		
Lab ID:	1606603-019	**Matrix:**	Soil
Client Sample ID:	2010-SB02-07		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/OES			**Method: 6010C-STAR**		**SW3050B**			**Analyst: BSK**
Lead	4.8		0.46	0.74	3.7	mg/Kg-dry	1	6/30/2016 1:00 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - DATES REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606603-001A	STB-SB01-05	6/15/2016 9:55 AM	Soil				
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/2/2016 1:42 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 3:20 PM
1606603-002A	STB-SB02-06	6/15/2016 9:37 AM	Soil				
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 5:11 PM
1606603-003A	STB-SB03-06	6/15/2016 9:30 AM	Soil				
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/4/2016 3:39 PM
1606603-004A	STB-SB04-06	6/15/2016 10:05 AM	Soil				
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/4/2016 12:32 AM
1606603-005A	STB-SB04-06 DUP	6/15/2016 10:05 AM	Soil				
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 7:31 PM
1606603-006A	STB-SS05-01	6/15/2016 10:30 AM	Soil				
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 7:58 PM
1606603-007A	STB-SS06-01	6/15/2016 10:20 AM	Soil				
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 8:26 PM
1606603-008A	STB-SS07-01	6/15/2016 10:25 AM	Soil				
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 8:53 PM
1606603-009A	WDS-SB20-06	6/15/2016 9:15 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	7/8/2016 12:00 AM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	8/3/2016 1:34 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 9:20 PM
1606603-009B	WDS-SB20-06	6/15/2016 9:15 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 8:36 AM

RTI Laboratories - DATES REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606603-009C	WDS-SB20-06	6/15/2016 9:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/22/2016 8:30 AM	7/25/2016 7:39 PM
				SW_6010S-Metals, ICP/OES		7/19/2016 12:52 PM	8/4/2016 12:13 PM
				SW_6010S-Metals, ICP/OES		7/19/2016 12:52 PM	8/4/2016 1:05 PM
				SW_6010S-Metals, ICP/OES		7/19/2016 12:52 PM	8/4/2016 1:34 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606603-010A	2010-SB01-04	6/15/2016 9:00 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:24 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606603-011A	2010-SB01-05	6/15/2016 9:05 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:43 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606603-012A	2010-SB01-06	6/15/2016 9:07 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:44 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606603-013A	2010-SB01-07	6/15/2016 9:10 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:52 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606603-014A	2010-SB02-04	6/15/2016 8:40 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:54 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606603-015A	2010-SB02-04 DUP	6/15/2016 8:40 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:55 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606603-016A	2010-SB02-05	6/15/2016 8:45 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:56 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606603-017A	2010-SB02-05 DUP	6/15/2016 8:45 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:58 PM
				PMOIST-Percent Moisture		6/21/2016 2:00 PM	6/21/2016 2:00 PM
1606603-018A	2010-SB02-06	6/15/2016 8:50 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 12:59 PM

RTI Laboratories - DATES REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606603-018A	2010-SB02-06	6/15/2016 8:50 AM	Soil				
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606603-019A	2010-SB02-07	6/15/2016 8:55 AM	Soil				
				SW_6010S-Metals, ICP/OES		6/29/2016 10:14 AM	6/30/2016 1:00 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**MB-40244**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**PBS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1704980**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.16	0.16									U
1,2-Dichlorobenzene	0.16	0.16									U
1,3-Dichlorobenzene	0.16	0.16									U
1,4-Dichlorobenzene	0.16	0.16									U
2,4,5-Trichlorophenol	0.16	0.16									U
2,4,6-Trichlorophenol	0.16	0.16									UY
2,4-Dichlorophenol	0.16	0.16									U
2,4-Dimethyl phenol	0.16	0.16									U
2,4-Dinitrophenol	0.82	0.82									UY
2,4-Dinitrotoluene	0.16	0.16									UY
2,6-Dinitrotoluene	0.16	0.16									U
2-Chloronaphthalene	0.16	0.16									U
2-Chlorophenol	0.16	0.16									U
2-Methylphenol (o-Cresol)	0.16	0.16									U
2-Nitroaniline	0.32	0.32									UY
2-Nitrophenol	0.16	0.16									UY
3,3´-Dichlorobenzidine	0.99	0.99									U
3-Nitroaniline	0.32	0.32									UY
3/4-Methylphenol [m/p-Cresol]	0.32	0.32									U
4,6-Dinitro-2-methylphenol	0.32	0.32									UY
4-Bromophenyl phenyl ether	0.20	0.20									U
4-Chloro-3-methylphenol	0.16	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.16	0.16									U
4-Chlorophenyl phenyl ether	0.16	0.16									U
4-Nitroaniline	0.32	0.32									UY
4-Nitrophenol	0.82	0.82									UY
Benzoic acid	0.99	0.99									U
Benzyl alcohol	0.66	0.66									U
Bis(2-chloroethoxy) methane	0.16	0.16									U
Bis(2-chloroethyl) ether	0.16	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**MB-40244**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**PBS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1704980**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.16	0.16									UZ
Bis(2-ethylhexyl) phthalate	0.16	0.16									U
Butyl benzyl phthalate	0.16	0.16									U
Carbazole	0.16	0.16									U
Di-n-butyl phthalate	0.16	0.16									U
Di-n-octyl phthalate	0.16	0.16									U
Dibenzofuran	0.16	0.16									U
Diethyl phthalate	0.16	0.16									U
Dimethyl phthalate	0.16	0.16									U
Hexachlorobenzene	0.16	0.16									U
Hexachlorobutadiene	0.050	0.050									U
Hexachloroethane	0.16	0.16									U
Isophorone	0.16	0.16									U
N-Nitroso-di-n-propylamine	0.16	0.16									U
N-Nitrosodimethylamine	0.16	0.16									U
N-Nitrosodiphenylamine	0.16	0.16									U
Nitrobenzene	0.16	0.16									U
Pentachlorophenol	0.16	0.16									U
Phenol	0.16	0.16									U
Surr: 2,4,6-Tribromophenol	670		828.1		81.4	39	132				
Surr: 2-Fluorobiphenyl	720		828.1		87.4	44	115				
Surr: 2-Fluorophenol	720		828.1		86.6	35	115				
Surr: Nitrobenzene-d5	790		828.1		95.8	37	122				
Surr: Phenol-d5	750		828.1		90.5	33	122				
Surr: Terphenyl-d14	710		828.1		85.2	54	127				

Sample ID:	**LCS-40244**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**LCSS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711446**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.52	0.16	0.65	0	80.2	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**LCS-40244**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**LCSS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711446**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.50	0.16	0.65	0	76.1	33	117				
1,3-Dichlorobenzene	0.49	0.16	0.65	0	75.4	30	115				
1,4-Dichlorobenzene	0.49	0.16	0.65	0	74.5	31	115				
2,4,5-Trichlorophenol	0.60	0.16	0.65	0	91.6	41	124				
2,4,6-Trichlorophenol	0.63	0.16	0.65	0	96.5	39	126				Y
2,4-Dichlorophenol	0.60	0.16	0.65	0	91.9	40	122				
2,4-Dimethyl phenol	0.54	0.16	0.65	0	82.9	30	127				
2,4-Dinitrophenol	1.7	0.81	1.6	0	103	50	130				JY
2,4-Dinitrotoluene	0.65	0.16	0.65	0	99.2	48	126				Y
2,6-Dinitrotoluene	0.58	0.16	0.65	0	88.6	46	124				
2-Chloronaphthalene	0.52	0.16	0.65	0	79.6	41	114				
2-Chlorophenol	0.52	0.16	0.65	0	80.3	34	121				
2-Methylphenol (o-Cresol)	0.55	0.16	0.65	0	84.4	32	122				
2-Nitroaniline	0.64	0.31	0.65	0	98.5	44	127				Y
2-Nitrophenol	0.61	0.16	0.65	0	93.9	36	123				Y
3,3´-Dichlorobenzidine	0.56	0.98	0.65	0	85.6	22	121				J
3-Nitroaniline	0.62	0.31	0.65	0	95.6	33	119				Y
3/4-Methylphenol [m/p-Cresol]	1.1	0.31	1.3	0	87.7	34	119				
4,6-Dinitro-2-methylphenol	0.72	0.31	0.65	0	110	29	132				Y
4-Bromophenyl phenyl ether	0.54	0.20	0.65	0	82.9	46	124				
4-Chloro-3-methylphenol	0.60	0.16	0.65	0	91.1	45	122				
4-Chloroaniline [p-Chloroaniline]	0.56	0.16	0.65	0	86.4	17	106				
4-Chlorophenyl phenyl ether	0.55	0.16	0.65	0	84.0	45	121				
4-Nitroaniline	0.60	0.31	0.65	0	92.3	50	130				Y
4-Nitrophenol	1.2	0.81	1.6	0	72.1	30	132				Y
Benzoic acid	0.98	0.98	1.3	0	0	40	117				QU
Benzyl alcohol	0.51	0.65	0.65	0	77.8	29	122				J
Bis(2-chloroethoxy) methane	0.56	0.16	0.65	0	85.3	36	121				
Bis(2-chloroethyl) ether	0.50	0.16	0.65	0	76.0	31	120				
Bis(2-chloroisopropyl)ether	0.48	0.16	0.65	0	73.7	33	131				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	LCS-40244	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	LCSS	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711446

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.52	0.16	0.65	0	79.2	51	133				
Butyl benzyl phthalate	0.54	0.16	0.65	0	82.9	48	132				
Carbazole	0.55	0.16	0.65	0	84.2	50	123				
Di-n-butyl phthalate	0.51	0.16	0.65	0	77.5	51	128				
Di-n-octyl phthalate	0.56	0.16	0.65	0	85.4	45	140				
Dibenzofuran	0.54	0.16	0.65	0	82.4	44	120				
Diethyl phthalate	0.54	0.16	0.65	0	82.0	50	124				
Dimethyl phthalate	0.52	0.16	0.65	0	79.9	48	124				
Hexachlorobenzene	0.55	0.16	0.65	0	83.7	45	122				
Hexachlorobutadiene	0.54	0.049	0.65	0	82.7	32	123				
Hexachloroethane	0.51	0.16	0.65	0	77.9	28	117				
Isophorone	0.53	0.16	0.65	0	80.6	30	122				
N-Nitroso-di-n-propylamine	0.56	0.16	0.65	0	85.1	50	130				
N-Nitrosodimethylamine	0.52	0.16	0.65	0	79.2	23	120				
N-Nitrosodiphenylamine	0.53	0.16	0.65	0	81.4	38	127				
Nitrobenzene	0.55	0.16	0.65	0	83.7	34	122				
Pentachlorophenol	0.33	0.16	0.65	0	50.0	25	133				
Phenol	0.60	0.16	0.65	0	91.7	34	121				
Surr: 2,4,6-Tribromophenol	720		816.5		88.7	39	132				
Surr: 2-Fluorobiphenyl	710		816.5		86.7	44	115				
Surr: 2-Fluorophenol	720		816.5		88.7	35	115				
Surr: Nitrobenzene-d5	810		816.5		98.7	37	122				
Surr: Phenol-d5	740		816.5		90.8	33	122				
Surr: Terphenyl-d14	720		816.5		88.6	54	127				

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	ZZZZZZ	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711447

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.54	0.20	0.82	0	65.6	34	118				
1,2-Dichlorobenzene	0.51	0.20	0.82	0	61.8	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**1606601-008AMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**ZZZZZZ**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711447**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.50	0.20	0.82	0	61.6	30	115				
1,4-Dichlorobenzene	0.49	0.20	0.82	0	60.2	31	115				
2,4,5-Trichlorophenol	0.69	0.20	0.82	0	84.7	41	124				
2,4,6-Trichlorophenol	0.72	0.20	0.82	0	88.4	39	126				Y
2,4-Dichlorophenol	0.64	0.20	0.82	0	78.6	40	122				
2,4-Dimethyl phenol	0.49	0.20	0.82	0	60.3	30	127				
2,4-Dinitrophenol	2.2	1.0	2.0	0	107	50	130				JY
2,4-Dinitrotoluene	0.71	0.20	0.82	0	86.1	48	126				Y
2,6-Dinitrotoluene	0.62	0.20	0.82	0	75.8	46	124				
2-Chloronaphthalene	0.56	0.20	0.82	0	67.9	41	114				
2-Chlorophenol	0.55	0.20	0.82	0	66.8	34	121				
2-Methylphenol (o-Cresol)	0.56	0.20	0.82	0	67.8	32	122				
2-Nitroaniline	0.70	0.39	0.82	0	85.2	44	127				Y
2-Nitrophenol	0.67	0.20	0.82	0	82.1	36	123				Y
3,3´-Dichlorobenzidine	1.2	1.2	0.82	0	0	22	121				QU
3-Nitroaniline	0.34	0.39	0.82	0	41.2	33	119				JY
3/4-Methylphenol [m/p-Cresol]	1.2	0.39	1.6	0	72.0	42	126				
4,6-Dinitro-2-methylphenol	0.91	0.39	0.82	0	112	29	132				Y
4-Bromophenyl phenyl ether	0.58	0.25	0.82	0	71.2	46	124				
4-Chloro-3-methylphenol	0.64	0.20	0.82	0	78.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.21	0.20	0.82	0	25.1	17	106				
4-Chlorophenyl phenyl ether	0.61	0.20	0.82	0	74.0	45	121				
4-Nitroaniline	0.33	0.39	0.82	0	40.4	50	130				JQY
4-Nitrophenol	1.6	1.0	2.0	0	77.3	30	132				Y
Benzoic acid	1.9	1.2	1.6	0	117	40	117				Q
Benzyl alcohol	0.53	0.81	0.82	0	64.8	29	122				J
Bis(2-chloroethoxy) methane	0.57	0.20	0.82	0	70.1	36	121				
Bis(2-chloroethyl) ether	0.52	0.20	0.82	0	63.3	31	120				
Bis(2-chloroisopropyl)ether	0.50	0.20	0.82	0	61.6	33	131				Z
Bis(2-ethylhexyl) phthalate	0.61	0.20	0.82	0	75.0	51	133				

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40244

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	ZZZZZZ	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711447

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.61	0.20	0.82	0	74.4	48	132				
Carbazole	0.61	0.20	0.82	0	74.5	50	123				
Di-n-butyl phthalate	0.56	0.20	0.82	0	68.4	51	128				
Di-n-octyl phthalate	0.65	0.20	0.82	0	79.5	45	140				
Dibenzofuran	0.59	0.20	0.82	0	71.7	44	120				
Diethyl phthalate	0.58	0.20	0.82	0	70.9	50	124				
Dimethyl phthalate	0.56	0.20	0.82	0	68.8	48	124				
Hexachlorobenzene	0.58	0.20	0.82	0	71.0	45	122				
Hexachlorobutadiene	0.57	0.061	0.82	0	70.1	32	123				
Hexachloroethane	0.50	0.20	0.82	0	60.7	28	117				
Isophorone	0.55	0.20	0.82	0	67.6	30	122				
N-Nitroso-di-n-propylamine	0.59	0.20	0.82	0	72.2	50	130				
N-Nitrosodimethylamine	0.52	0.20	0.82	0	63.8	23	120				
N-Nitrosodiphenylamine	0.56	0.20	0.82	0	68.6	38	127				
Nitrobenzene	0.57	0.20	0.82	0	69.1	34	122				
Pentachlorophenol	0.68	0.20	0.82	0	83.3	25	133				
Phenol	0.59	0.20	0.82	0	72.0	34	121				
Surr: 2,4,6-Tribromophenol	850		1,023		83.2	39	132				
Surr: 2-Fluorobiphenyl	740		1,023		72.3	44	115				
Surr: 2-Fluorophenol	710		1,023		69.2	35	115				
Surr: Nitrobenzene-d5	800		1,023		78.1	37	122				
Surr: Phenol-d5	730		1,023		71.6	33	122				
Surr: Terphenyl-d14	760		1,023		74.2	54	127				

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	ZZZZZZ	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711448

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.34	0.20	0.81	0	42.1	34	118	0.54	44.2	25	R
1,2-Dichlorobenzene	0.32	0.20	0.81	0	39.3	33	117	0.51	45.0	25	R
1,3-Dichlorobenzene	0.31	0.20	0.81	0	38.3	30	115	0.50	47.1	25	R

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40244

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	ZZZZZZ	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711448

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.31	0.20	0.81	0	38.3	31	115	0.49	45.1	25	R
2,4,5-Trichlorophenol	0.42	0.20	0.81	0	51.4	41	124	0.69	49.5	25	R
2,4,6-Trichlorophenol	0.42	0.20	0.81	0	52.2	39	126	0.72	52.1	25	RY
2,4-Dichlorophenol	0.39	0.20	0.81	0	48.1	40	122	0.64	48.8	25	R
2,4-Dimethyl phenol	0.28	0.20	0.81	0	34.8	30	127	0.49	54.3	25	R
2,4-Dinitrophenol	1.4	1.0	2.0	0	70.6	50	130	2.2	41.9	25	RY
2,4-Dinitrotoluene	0.41	0.20	0.81	0	50.5	48	126	0.71	52.7	25	RY
2,6-Dinitrotoluene	0.36	0.20	0.81	0	44.4	46	124	0.62	52.9	25	RQ
2-Chloronaphthalene	0.34	0.20	0.81	0	42.0	41	114	0.56	47.6	25	R
2-Chlorophenol	0.33	0.20	0.81	0	40.6	34	121	0.55	49.5	25	R
2-Methylphenol (o-Cresol)	0.34	0.20	0.81	0	41.4	32	122	0.56	49.0	25	R
2-Nitroaniline	0.41	0.39	0.81	0	50.2	44	127	0.70	52.2	25	RY
2-Nitrophenol	0.42	0.20	0.81	0	51.9	36	123	0.67	45.7	25	RY
3,3´-Dichlorobenzidine	1.2	1.2	0.81	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.24	0.39	0.81	0	29.6	33	119	0.34	33.3	25	JRQY
3/4-Methylphenol [m/p-Cresol]	0.68	0.39	1.6	0	41.6	42	126	1.2	54.2	25	RQ
4,6-Dinitro-2-methylphenol	0.54	0.39	0.81	0	66.4	29	132	0.91	51.4	25	RY
4-Bromophenyl phenyl ether	0.36	0.24	0.81	0	44.5	46	124	0.58	46.7	25	RQ
4-Chloro-3-methylphenol	0.38	0.20	0.81	0	47.3	45	122	0.64	49.8	25	R
4-Chloroaniline [p-Chloroaniline]	0.15	0.20	0.81	0	18.5	17	106	0.21	30.6	25	JR
4-Chlorophenyl phenyl ether	0.36	0.20	0.81	0	44.7	45	121	0.61	49.9	25	RQ
4-Nitroaniline	0.25	0.39	0.81	0	30.5	50	130	0.33	28.5	25	JRQY
4-Nitrophenol	0.96	1.0	2.0	0	47.4	30	132	1.6	48.5	25	JRY
Benzoic acid	1.1	1.2	1.6	0	66.8	40	117	1.9	55.4	25	JR
Benzyl alcohol	0.32	0.81	0.81	0	38.8	29	122	0.53	50.9	25	JR
Bis(2-chloroethoxy) methane	0.36	0.20	0.81	0	44.7	36	121	0.57	44.8	25	R
Bis(2-chloroethyl) ether	0.32	0.20	0.81	0	39.7	31	120	0.52	46.4	25	R
Bis(2-chloroisopropyl)ether	0.31	0.20	0.81	0	38.2	33	131	0.50	47.6	25	RZ
Bis(2-ethylhexyl) phthalate	0.36	0.20	0.81	0	44.2	51	133	0.61	52.2	25	RQ
Butyl benzyl phthalate	0.35	0.20	0.81	0	43.5	48	132	0.61	53.1	25	RQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**1606601-008AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**ZZZZZZ**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711448**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.38	0.20	0.81	0	46.9	50	123	0.61	46.1	25	RQ
Di-n-butyl phthalate	0.35	0.20	0.81	0	42.4	51	128	0.56	47.5	25	RQ
Di-n-octyl phthalate	0.39	0.20	0.81	0	47.4	45	140	0.65	51.2	25	R
Dibenzofuran	0.36	0.20	0.81	0	44.2	44	120	0.59	47.9	25	R
Diethyl phthalate	0.35	0.20	0.81	0	43.1	50	124	0.58	49.3	25	RQ
Dimethyl phthalate	0.34	0.20	0.81	0	42.0	48	124	0.56	49.0	25	RQ
Hexachlorobenzene	0.36	0.20	0.81	0	44.3	45	122	0.58	46.8	25	RQ
Hexachlorobutadiene	0.36	0.061	0.81	0	43.6	32	123	0.57	47.2	25	R
Hexachloroethane	0.30	0.20	0.81	0	36.6	28	117	0.50	50.1	25	R
Isophorone	0.34	0.20	0.81	0	42.1	30	122	0.55	47.0	25	R
N-Nitroso-di-n-propylamine	0.34	0.20	0.81	0	42.1	50	130	0.59	53.3	25	RQ
N-Nitrosodimethylamine	0.34	0.20	0.81	0	41.4	23	120	0.52	43.3	25	R
N-Nitrosodiphenylamine	0.35	0.20	0.81	0	43.2	38	127	0.56	45.9	25	R
Nitrobenzene	0.36	0.20	0.81	0	44.3	34	122	0.57	44.2	25	R
Pentachlorophenol	0.36	0.20	0.81	0	44.2	25	133	0.68	62.0	25	R
Phenol	0.36	0.20	0.81	0	44.1	34	121	0.59	48.5	25	R
Surr: 2,4,6-Tribromophenol	500		1,017		49.6	39	132		0	25	
Surr: 2-Fluorobiphenyl	470		1,017		46.3	44	115		0	25	
Surr: 2-Fluorophenol	440		1,017		43.1	35	115		0	25	
Surr: Nitrobenzene-d5	500		1,017		49.0	37	122		0	25	
Surr: Phenol-d5	450		1,017		44.4	33	122		0	25	
Surr: Terphenyl-d14	460		1,017		45.2	54	127		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	**LCS-40258**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**%Rec**	Prep Date:	**6/26/2016**	RunNo:	**87786**
Client ID:	**LCSS**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/1/2016**	SeqNo:	**1706011**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	20		16.26		124	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		145	44	125				Q
Surr: Terphenyl-d14	22		16.26		134	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	MB-40280	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	PBS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706006

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00065	0.00065									U
2-Methylnaphthalene	0.00065	0.00065									U
Acenaphthene	0.00065	0.00065									U
Acenaphthylene	0.00065	0.00065									U
Anthracene	0.00065	0.00065									U
Benz(a)anthracene	0.00065	0.00065									U
Benzo(a)pyrene	0.00065	0.00065									U
Benzo(b)fluoranthene	0.00065	0.00065									U
Benzo(g,h,i)perylene	0.00065	0.00065									U
Benzo(k)fluoranthene	0.00065	0.00065									U
Chrysene	0.00065	0.00065									U
Dibenzo(a,h)anthracene	0.00065	0.00065									U
Fluoranthene	0.00065	0.00065									U
Fluorene	0.00065	0.00065									U
Indeno(1,2,3-cd)pyrene	0.00065	0.00065									U
Naphthalene	0.00065	0.00065									U
Phenanthrene	0.00065	0.00065									U
Pyrene	0.00065	0.00065									U
Surr: 2-Fluorobiphenyl	19		16.27		116	46	115				Q
Surr: Nitrobenzene-d5	21		16.27		126	44	125				Q
Surr: Terphenyl-d14	21		16.27		128	58	133				

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.015	0.00067	0.013	0	115	43	111				Q
2-Methylnaphthalene	0.014	0.00067	0.013	0	104	39	114				
Acenaphthene	0.014	0.00067	0.013	0	107	44	111				
Acenaphthylene	0.014	0.00067	0.013	0	105	39	116				
Anthracene	0.014	0.00067	0.013	0	108	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.015	0.00067	0.013	0	114	54	122				
Benzo(a)pyrene	0.014	0.00067	0.013	0	103	50	125				
Benzo(b)fluoranthene	0.016	0.00067	0.013	0	122	53	128				
Benzo(g,h,i)perylene	0.014	0.00067	0.013	0	107	49	127				
Benzo(k)fluoranthene	0.014	0.00067	0.013	0	107	56	123				
Chrysene	0.015	0.00067	0.013	0	110	57	118				
Dibenzo(a,h)anthracene	0.014	0.00067	0.013	0	108	50	129				
Fluoranthene	0.015	0.00067	0.013	0	113	55	119				
Fluorene	0.014	0.00067	0.013	0	104	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00067	0.013	0	107	49	130				
Naphthalene	0.014	0.00067	0.013	0	103	38	111				
Phenanthrene	0.014	0.00067	0.013	0	103	49	113				
Pyrene	0.015	0.00067	0.013	0	111	55	117				
Surr: 2-Fluorobiphenyl	21		16.66		125	46	115				Q
Surr: Nitrobenzene-d5	23		16.66		140	44	125				Q
Surr: Terphenyl-d14	22		16.66		133	58	133				Q

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.019	0.00079	0.016	0.0010	115	43	111				Q
2-Methylnaphthalene	0.018	0.00079	0.016	0.0019	103	39	114				
Acenaphthene	0.017	0.00079	0.016	0.0012	101	44	111				
Acenaphthylene	0.018	0.00079	0.016	0.00090	107	39	116				
Anthracene	0.019	0.00079	0.016	0.0024	106	50	114				
Benz(a)anthracene	0.027	0.00079	0.016	0.014	83.7	54	122				
Benzo(a)pyrene	0.024	0.00079	0.016	0.013	70.8	50	125				
Benzo(b)fluoranthene	0.040	0.00079	0.016	0.023	108	53	128				J
Benzo(g,h,i)perylene	0.012	0.00079	0.016	0	74.6	49	127				
Benzo(k)fluoranthene	0.018	0.00079	0.016	0.0053	80.4	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.027	0.00079	0.016	0.014	83.1	57	118				
Dibenzo(a,h)anthracene	0.011	0.00079	0.016	0	69.2	50	129				
Fluoranthene	0.036	0.00079	0.016	0.028	52.5	55	119				Q
Fluorene	0.017	0.00079	0.016	0.0013	99.8	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00079	0.016	0.0053	41.0	49	130				Q
Naphthalene	0.017	0.00079	0.016	0.0014	101	38	111				
Phenanthrene	0.027	0.00079	0.016	0.015	76.3	49	113				
Pyrene	0.033	0.00079	0.016	0.023	64.8	55	117				
Surr: 2-Fluorobiphenyl	23		19.72		119	46	115				Q
Surr: Nitrobenzene-d5	28		19.72		142	44	125				Q
Surr: Terphenyl-d14	28		19.72		144	58	133				Q

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706920

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.019	0.00078	0.016	0.0010	117	43	111	0.019	0.248	25	Q
2-Methylnaphthalene	0.018	0.00078	0.016	0.0019	102	39	114	0.018	2.87	25	
Acenaphthene	0.018	0.00078	0.016	0.0012	108	44	111	0.017	4.58	25	
Acenaphthylene	0.018	0.00078	0.016	0.00090	111	39	116	0.018	2.02	25	
Anthracene	0.021	0.00078	0.016	0.0024	121	50	114	0.019	10.1	25	Q
Benz(a)anthracene	0.045	0.00078	0.016	0.014	200	54	122	0.027	49.5	25	JRQ
Benzo(a)pyrene	0.034	0.00078	0.016	0.013	141	50	125	0.024	36.8	25	RQ
Benzo(b)fluoranthene	0.050	0.00078	0.016	0.023	175	53	128	0.040	22.4	25	JQ
Benzo(g,h,i)perylene	0.015	0.00078	0.016	0	97.2	49	127	0.012	24.8	25	
Benzo(k)fluoranthene	0.027	0.00078	0.016	0.0053	142	56	123	0.018	41.4	25	RQ
Chrysene	0.038	0.00078	0.016	0.014	152	57	118	0.027	32.4	25	RQ
Dibenzo(a,h)anthracene	0.0013	0.00078	0.016	0	8.49	50	129	0.011	157	25	RQ
Fluoranthene	0.066	0.00078	0.016	0.028	245	55	119	0.036	58.1	25	JRQ
Fluorene	0.018	0.00078	0.016	0.0013	106	47	114	0.017	4.53	25	
Indeno(1,2,3-cd)pyrene	0.015	0.00078	0.016	0.0053	63.1	49	130	0.012	24.8	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	**1606601-008AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/28/2016**	RunNo:	**87818**
Client ID:	**ZZZZZZ**	Batch ID:	**40280**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/2/2016**	SeqNo:	**1706920**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.017	0.00078	0.016	0.0014	100	38	111	0.017	1.78	25	
Phenanthrene	0.034	0.00078	0.016	0.015	124	49	113	0.027	23.6	25	Q
Pyrene	0.059	0.00078	0.016	0.023	232	55	117	0.033	56.2	25	JRQ
Surr: 2-Fluorobiphenyl	25		19.41		129	46	115		0	25	Q
Surr: Nitrobenzene-d5	29		19.41		151	44	125		0	25	Q
Surr: Terphenyl-d14	29		19.41		150	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40297**

Sample ID:	**MB-40297**	Samp Type:	**MBLK**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87077**
Client ID:	**PBS**	Batch ID:	**40297**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**6/30/2016**	SeqNo:	**1689247**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	5.0	5.0									U

Sample ID:	**LCS-40297**	Samp Type:	**LCS**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87077**
Client ID:	**LCSS**	Batch ID:	**40297**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**6/30/2016**	SeqNo:	**1689248**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	25	5.0	25	0	99.7	81	112				

Sample ID:	**1606603-010AMS**	Samp Type:	**MS**	Test Code:	**SW_6010S**	Units:	**mg/Kg-dry**	Prep Date:	**6/29/2016**	RunNo:	**87077**
Client ID:	**2010-SB01-04MS1**	Batch ID:	**40297**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**6/30/2016**	SeqNo:	**1689250**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	22	3.8	19	3.5	100	81	112				

Sample ID:	**1606603-010AMSD**	Samp Type:	**MSD**	Test Code:	**SW_6010S**	Units:	**mg/Kg-dry**	Prep Date:	**6/29/2016**	RunNo:	**87077**
Client ID:	**2010-SB01-04SD1**	Batch ID:	**40297**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**6/30/2016**	SeqNo:	**1689251**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	22	3.8	19	3.5	98.2	81	112	22	0.429	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40481**

Sample ID:	**MB-40481**	Samp Type:	**MBLK**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**7/19/2016**	RunNo:	**87852**
Client ID:	**PBS**	Batch ID:	**40481**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**8/4/2016**	SeqNo:	**1707715**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	0.37	1.0									J
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	**LCS-40481**	Samp Type:	**LCS**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**7/19/2016**	RunNo:	**87852**
Client ID:	**LCSS**	Batch ID:	**40481**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**8/4/2016**	SeqNo:	**1707716**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	24	5.0	25	0	95.5	74	119				
Antimony	24	1.0	25	0	94.8	79	114				
Arsenic	23	2.0	25	0	92.9	82	111				
Barium	23	10	25	0	91.6	83	113				
Beryllium	21	0.25	25	0	84.9	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40481

Sample ID:	LCS-40481	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/19/2016	RunNo:	87852
Client ID:	LCSS	Batch ID:	40481	TestNo:	SW6010B	SW3050B		Analysis Date:	8/4/2016	SeqNo:	1707716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	24	0.25	25	0	95.7	82	113				
Calcium	220	50	250	0	87.6	81	116				
Chromium	23	0.50	25	0	93.9	85	113				
Cobalt	24	1.0	25	0	97.6	85	112				
Copper	25	5.0	25	0	101	81	117				
Iron	210	15	250	0	83.0	81	118				
Lead	24	5.0	25	0	95.8	81	112				
Magnesium	220	50	250	0	88.7	78	115				
Manganese	24	1.0	25	0	96.1	84	114				
Nickel	27	5.0	25	0	107	83	113				
Potassium	220	20	250	0	87.4	81	116				
Selenium	24	2.0	25	0	96.8	78	111				
Silver	24	1.0	25	0	95.7	82	112				
Sodium	220	50	250	0	86.7	83	118				
Vanadium	24	2.5	25	0	94.2	82	114				
Zinc	24	5.0	25	0	96.8	82	113				

Sample ID:	1606652-014FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/19/2016	RunNo:	87852
Client ID:	ZZZZZZ	Batch ID:	40481	TestNo:	SW6010B	SW3050B		Analysis Date:	8/4/2016	SeqNo:	1707718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,800	4.3	21	8,900	-196	74	119				Q
Antimony	23	0.86	21	3.5	90.7	79	114				
Arsenic	22	1.7	21	1.6	94.5	82	111				
Barium	58	8.6	21	42	72.3	83	113				Q
Beryllium	20	0.21	21	0.23	91.5	83	113				
Cadmium	20	0.21	21	0.032	95.0	82	113				
Calcium	1,000	43	210	810	111	81	116				
Chromium	32	0.43	21	13	90.5	85	113				
Cobalt	24	0.86	21	3.8	92.8	85	112				
Copper	52	4.3	21	31	98.6	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40481

Sample ID: **1606652-014FMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/19/2016** RunNo: **87852**

Client ID: **ZZZZZZ** Batch ID: **40481** TestNo: **SW6010B** **SW3050B** Analysis Date: **8/4/2016** SeqNo: **1707718**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,300	13	210	9,800	-221	81	118				JQ
Lead	22	4.3	21	3.5	87.5	81	112				
Magnesium	2,000	43	210	2,100	-20.4	78	115				Q
Manganese	140	0.86	21	130	45.1	84	114				Q
Nickel	33	4.3	21	8.4	113	83	113				Q
Potassium	1,500	17	210	1,500	15.7	81	116				Q
Selenium	17	1.7	21	0	81.1	78	111				
Silver	20	0.86	21	0	94.8	82	112				
Sodium	320	43	210	120	91.9	83	118				
Vanadium	43	2.1	21	22	94.9	82	114				
Zinc	34	4.3	21	16	82.2	82	113				

Sample ID: **1606652-014FMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/19/2016** RunNo: **87852**

Client ID: **ZZZZZZ** Batch ID: **40481** TestNo: **SW6010B** **SW3050B** Analysis Date: **8/4/2016** SeqNo: **1707719**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	10,000	4.3	21	8,900	7,500	74	119	8,800	17.1	20	Q
Antimony	24	0.86	21	3.5	96.7	79	114	23	5.44	20	
Arsenic	24	1.7	21	1.6	103	82	111	22	7.79	20	
Barium	67	8.6	21	42	114	83	113	58	14.4	20	Q
Beryllium	21	0.21	21	0.23	97.4	83	113	20	6.22	20	
Cadmium	21	0.21	21	0.032	98.0	82	113	20	3.15	20	
Calcium	1,200	43	210	810	160	81	116	1,000	9.64	20	Q
Chromium	36	0.43	21	13	107	85	113	32	10.3	20	
Cobalt	24	0.86	21	3.8	95.4	85	112	24	2.31	20	
Copper	59	4.3	21	31	130	81	117	52	12.3	20	Q
Iron	11,000	13	210	9,800	504	81	118	9,300	15.4	20	JQ
Lead	24	4.3	21	3.5	95.5	81	112	22	7.44	20	
Magnesium	2,400	43	210	2,100	136	78	115	2,000	15.3	20	JQ
Manganese	170	0.86	21	130	143	84	114	140	13.6	20	Q
Nickel	34	4.3	21	8.4	121	83	113	33	4.63	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40481**

Sample ID:	**1606652-014FMSD**	Samp Type:	**MSD**	Test Code:	**SW_6010S**	Units:	**mg/Kg-dry**	Prep Date:	**7/19/2016**	RunNo:	**87852**
Client ID:	**ZZZZZZ**	Batch ID:	**40481**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**8/4/2016**	SeqNo:	**1707719**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,700	17	210	1,500	122	81	116	1,500	14.2	20	Q
Selenium	19	1.7	21	0	90.3	78	111	17	10.7	20	
Silver	21	0.86	21	0	98.2	82	112	20	3.49	20	
Sodium	360	43	210	120	109	83	118	320	11.0	20	
Vanadium	47	2.1	21	22	116	82	114	43	9.90	20	JQ
Zinc	36	4.3	21	16	93.4	82	113	34	6.93	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40483**

Sample ID:	1606601-008BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	ZZZZZZ	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699789

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.039	0.20	0	66.7	46	129				
Aroclor 1260	0.16	0.039	0.20	0	83.0	45	134				
Surr: Tetrachloro-m-xylene	6.3		9.865		64.2	44	130				
Surr: Decachlorobiphenyl	7.9		9.865		80.5	40	135				

Sample ID:	1606601-008BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	ZZZZZZ	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699790

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.039	0.20	0	75.5	46	129	0.13	11.2	25	
Aroclor 1260	0.18	0.039	0.20	0	93.9	45	134	0.16	11.2	25	
Surr: Tetrachloro-m-xylene	7.0		9.755		71.9	44	130		0	25	
Surr: Decachlorobiphenyl	8.7		9.755		89.7	40	135		0	25	

Sample ID:	LCS-40483	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	LCSS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699817

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.19	0.033	0.16	0	113	46	129				
Aroclor 1260	0.20	0.033	0.16	0	121	45	134				
Surr: Tetrachloro-m-xylene	8.6		8.234		105	44	130				
Surr: Decachlorobiphenyl	9.7		8.234		118	40	135				

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40483

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.5		8.297		90.5	44	130				
Surr: Decachlorobiphenyl	8.3		8.297		99.9	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40503**

Sample ID:	**1606601-008CMS**	Samp Type:	**MS**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/22/2016**	RunNo:	**87592**	
Client ID:	**ZZZZZZ**	Batch ID:	**40503**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/25/2016**	SeqNo:	**1701599**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	6.8	0.16	7.9	0.13	85.4	83	118				G	

Sample ID:	**LCS-40503**	Samp Type:	**LCS**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/22/2016**	RunNo:	**87592**	
Client ID:	**LCSS**	Batch ID:	**40503**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/25/2016**	SeqNo:	**1701600**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	9.7	0.20	10	0	97.4	83	118				G	

Sample ID:	**MB-40503**	Samp Type:	**MBLK**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/22/2016**	RunNo:	**87592**	
Client ID:	**PBS**	Batch ID:	**40503**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/25/2016**	SeqNo:	**1701601**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	0.20	0.20									UG	

Sample ID:	**1606601-008CMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/22/2016**	RunNo:	**87592**	
Client ID:	**ZZZZZZ**	Batch ID:	**40503**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/25/2016**	SeqNo:	**1701602**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Thallium	7.5	0.16	7.9	0.13	94.1	83	118	6.8	9.51	20	G	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86865**

Sample ID:	**1606601-008C DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/21/2016**	RunNo:	**86865**
Client ID:	**ZZZZZZ**	Batch ID:	**R86865**	TestNo:	**D2216**			Analysis Date:	**6/21/2016**	SeqNo:	**1685491**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	19	1.0						15.64	18.8	20	

Sample ID:	**1606603-010A DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/21/2016**	RunNo:	**86865**
Client ID:	**2010-SB01-04LR1**	Batch ID:	**R86865**	TestNo:	**D2216**			Analysis Date:	**6/21/2016**	SeqNo:	**1685502**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	13	1.0						14.85	11.2	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86985**

Sample ID:	**1606603-018A DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/27/2016**	RunNo:	**86985**
Client ID:	**2010-SB02-06LR1**	Batch ID:	**R86985**	TestNo:	**D2216**			Analysis Date:	**6/27/2016**	SeqNo:	**1687706**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	11	1.0						10.87	1.02	20	

Sample ID:	**1606605-003B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/27/2016**	RunNo:	**86985**
Client ID:	**ZZZZZZ**	Batch ID:	**R86985**	TestNo:	**D2216**			Analysis Date:	**6/27/2016**	SeqNo:	**1687718**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	17	1.0						16.62	0.276	20	

RTI Laboratories - Definitions and Acronyms

WO#: 1606603

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

16 06603

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061516-06
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
STB-SB01	04	05	N	1	STB-SB01-05	6/15/16	0955	SO	1	045						1						
STB-SB02	05	06	N	1	STB-SB02-06		0937	SO	1							1						
STB-SB03	05	06	N	1	STB-SB03-06		0930	SO	2							2						(2-125mL jars)*
STB-SB04	05	06	N	1	STB-SB04-06		1005	SO	1							1						
STB-SB04	05	06	FD	1	STB-SB04-06DUP		1005	SO	1							1						Field Dup
STB-SS05	00	01	N	1	STB-SS05-01		1030	SS	1							1						
STB-SS06	00	01	N	1	STB-SS06-01		1020	SS	1							1						
STB-SS07	00	01	N	1	STB-SS07-01		1025	SS	1							1						
WDS-SB20	05	06	N	1	WDS-SB20-06		0915	SO	3						1			1	1			
2010-SB01	00	04	N	1	2010-SB01-04		0900	SO	1											1		
	00	04	MS	1	2010-SB01-04MS		0900	SO	1											1		(2-250mL Jars For ms/msD
	00	04	SD	1	2010-SB01-04MSD		0900	SO	1**											0		
	04	05	N	1	2010-SB01-05		0905	SO	1											1		

1. Relinquished By / Company: Devon Chicoine / AECOM	Date: 6/15/16	Time: 1400	1. Received By / Company: FED EX TO FEDEX
2. Relinquished By / Company	Date	Time	2. Received By / Company: Phillip Hilton / RTI
3. Relinquished By / Company	Date	Time	3. Received By / Company

Received		
	Date: 6/15/16	Time: 1400
	Date: 6/17/16	Time: 0930
	Date	Time

Comments

Shipment Method/Airbill No.: 8105 0202 5670

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

D1

1.4°C

* Rec'd 1-8oz WM GC NM 2 Jars
** Rec'd 3-4oz WM GC for MS/MSD

1606603

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/15/16-06
Batch May16

	Database Information					Other Sample Information					Analysis												
	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
12	2010-SB01	05	06	N	1	2010-SB01-06	6/15/16	0907	SO	1	045										1		
13	2010-SB01	06	07	N	1	2010-SB01-07		0910	SO	1											1		
14	2010-SB02	00	04	N	1	2010-SB02-04		0840	SO	1											1		
15		00	04	FD	1	2010-SB02-04DUP		0840	SO	1											1		Field Dup
16		04	05	N	1	2010-SB02-05		0845	SO	1											1		
17		04	05	FD	1	2010-SB02-05DUP		0845	SO	1											1		Field Dup
18		05	06	N	1	2010-SB02-06		0850	SO	1											1		
19		06	07	N	1	2010-SB02-07		0855	SO	1											1		
20																							

	Relinquished By / Company	Date	Time	Received By / Company	Date	Time
1.	[signature]	6/15/16	1400	1. XFER TO FEDEX	6/15/16	1400
2.		Date	Time	2. [signature] / RTI	6/16/16	0950
3.		Date	Time	3.	Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5670

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

D1

Cooler
Temp 1.4°C

CUSTODY SEALS

Date 10/15/16

Signature [signature] Cooler ID: D1

CUSTODY SEALS

Date 10/15/16

Signature [signature]

Shipper Company:	AECOM GCP	Recipient Company:	RTI LABORATORIES ENV SCI DIV
Name:	AMANDA MARTIN	Name:	KATHY GRIFFIN
Address:	3101 WILSON BLVD STE 900	Address:	31628 GLENDALE STREET
Additional Address:		Additional Address:	
City:	ARLINGTON	City:	LIVONIA
State/Province:	VA	State/Province:	MI
Postal:	22201-4446	Postal:	48150
Country:	US - UNITED STATES	Country:	US - UNITED STATES
Shipper Phone:	4346648047	Recipient Phone:	7342922100

Original Address

PACKAGE TRACKING NUMBER: 810302025670

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606604

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606604-001A	H19-SS01-01		6/15/2016 11:45 AM	6/17/2016 9:50 AM	Soil
1606604-001B	H19-SS01-01		6/15/2016 11:45 AM	6/17/2016 9:50 AM	Soil
1606604-001C	H19-SS01-01		6/15/2016 11:45 AM	6/17/2016 9:50 AM	Soil
1606604-001D	H19-SS01-01		6/15/2016 11:45 AM	6/17/2016 9:50 AM	Soil
1606604-001E	H19-SS01-01		6/15/2016 11:45 AM	6/17/2016 9:50 AM	Soil
1606604-001F	H19-SS01-01		6/15/2016 11:45 AM	6/17/2016 9:50 AM	Soil
1606604-002A	H19-SS02-01		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-002B	H19-SS02-01		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-002C	H19-SS02-01		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-002D	H19-SS02-01		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-002E	H19-SS02-01		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-002F	H19-SS02-01		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-003A	H19-SS02-01 DUP		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-003B	H19-SS02-01 DUP		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-003C	H19-SS02-01 DUP		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-003D	H19-SS02-01 DUP		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-003E	H19-SS02-01 DUP		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-003F	H19-SS02-01 DUP		6/15/2016 11:50 AM	6/17/2016 9:50 AM	Soil
1606604-004A	H22-SS01-01		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Soil
1606604-004B	H22-SS01-01		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Soil
1606604-004C	H22-SS01-01		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Soil
1606604-004D	H22-SS01-01		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Soil
1606604-004E	H22-SS01-01		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Soil
1606604-004F	H22-SS01-01		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Soil
1606604-004G	H22-SS01-01		6/15/2016 12:35 PM	6/17/2016 9:50 AM	Soil
1606604-005A	H22-SS01-02		6/15/2016 12:45 PM	6/17/2016 9:50 AM	Soil
1606604-005B	H22-SS01-02		6/15/2016 12:45 PM	6/17/2016 9:50 AM	Soil
1606604-005C	H22-SS01-02		6/15/2016 12:45 PM	6/17/2016 9:50 AM	Soil
1606604-005D	H22-SS01-02		6/15/2016 12:45 PM	6/17/2016 9:50 AM	Soil
1606604-005E	H22-SS01-02		6/15/2016 12:45 PM	6/17/2016 9:50 AM	Soil
1606604-005F	H22-SS01-02		6/15/2016 12:45 PM	6/17/2016 9:50 AM	Soil
1606604-005G	H22-SS01-02		6/15/2016 12:45 PM	6/17/2016 9:50 AM	Soil
1606604-006A	H22-SS02-01		6/15/2016 1:00 PM	6/17/2016 9:50 AM	Soil
1606604-006B	H22-SS02-01		6/15/2016 1:00 PM	6/17/2016 9:50 AM	Soil
1606604-006C	H22-SS02-01		6/15/2016 1:00 PM	6/17/2016 9:50 AM	Soil
1606604-006D	H22-SS02-01		6/15/2016 1:00 PM	6/17/2016 9:50 AM	Soil
1606604-006E	H22-SS02-01		6/15/2016 1:00 PM	6/17/2016 9:50 AM	Soil
1606604-006F	H22-SS02-01		6/15/2016 1:00 PM	6/17/2016 9:50 AM	Soil
1606604-006G	H22-SS02-01		6/15/2016 1:00 PM	6/17/2016 9:50 AM	Soil
1606604-007A	H22-SS02-02		6/15/2016 1:05 PM	6/17/2016 9:50 AM	Soil
1606604-007B	H22-SS02-02		6/15/2016 1:05 PM	6/17/2016 9:50 AM	Soil
1606604-007C	H22-SS02-02		6/15/2016 1:05 PM	6/17/2016 9:50 AM	Soil
1606604-007D	H22-SS02-02		6/15/2016 1:05 PM	6/17/2016 9:50 AM	Soil
1606604-007E	H22-SS02-02		6/15/2016 1:05 PM	6/17/2016 9:50 AM	Soil
1606604-007F	H22-SS02-02		6/15/2016 1:05 PM	6/17/2016 9:50 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606604-007G	H22-SS02-02		6/15/2016 1:05 PM	6/17/2016 9:50 AM	Soil
1606604-008A	TB-SO-061516-02		6/15/2016 9:05 AM	6/17/2016 9:50 AM	Soil
1606604-008B	TB-SO-061516-02		6/15/2016 9:05 AM	6/17/2016 9:50 AM	Soil
1606604-008C	TB-SO-061516-02		6/15/2016 9:05 AM	6/17/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)
Project:	Camp Hero

Analytical report revision: 9/16/16: Update LOQ for Benzene for samples 1606604-001C, -002C, -003C, -004C, -005C, -006C, and -007C.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A-TL
- Polychlorinated Biphenyls - 8082A
- Volatile Organic Compounds - 8260C-ME
- Volatile Organic Compounds - 8260C
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM

Samples 1606604-001A through 007A were initially analyzed twice for Low-Level Volatile Organic Compounds. Responses for internal standards exceeded method specified criteria. Sample re-analyses were performed using the methanol preserved vials. The results for these samples were reported from the methanol vials with associated elevated reporting limits.

Analytical Comments for Test SW_8260S, Analytical Run No 86986, Batch ID R86986:
- Sample VOA11B ICV 062716: 1,2-Dibromo-3-Chloroporpane and Chlorodibromomethane exceed the 20% criteria.
- Sample VOA11B CCV 062816: Chloromethane exceeds the 20% criteria.
- Sample VOA11B LCS 06281: 1,1,1,2-Tetrachloroethane, Bromodichloromethane, chloroethane and styrene exceeds limits.
- Sample VOA11B CCVE 062816: Chloroethane exceeds the 50% criteria.
- Sample 1606588-019C MS/MSD: Several spike recoveries were outside the control limits

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86936, Batch ID R86936:
- Sample VOA10 ICV 062316: Acetone and vinyl acetate exceed limits.
- Sample VOA10 MBLK 06231: Methylene Chloride was > 1/2 LOQ. Surrogate recovery for Toluene-d8 exceeded QC limit.
- Sample VOA10 LCS 062316: Cis-1,3-dicloropropene, Methylene chloride, and styrene exceed limits.
- Sample VOA10 LCSD 06231: 2-Butanone, Cis-1,3-dichloropropene and trans-1,3-dichloropropene exceed limits. RPD for 2-Butanone was outside the control limits
- Sample 1606604-008A: Surrogate recovery for Toluene-d8 exceeded QC limit.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87828, Batch ID R87828:
- Sample ICV S8 080216: Bis-(2-chloroisopropyl) ether and ,4,6-Dinitro-2-methylphenol exceeded QC limits.
- Sample CCV S8 080316: Benzoic acid, Pentachlorophenol and 2-chloroisopropyl) ether exceeded QC limits

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87828, Batch ID 40244:
- Sample 1606604-005D: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5, and Terphenyl-d14 were outside the control limits. Sample extract was a waxy oil and sample was diluted.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87747, Batch ID R87747:
- Sample ICV S8 070216: Bis(2-chloroisopropyl) ether exceed 20% limit.
- Sample CCV S8 070816: 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitroaniline,2-Nitrophenol, 3-Nitroaniline,and 4,6-Dinitro-2-methylphenol, 4-Nitroaniline and 4-Nitropehenol exceed 20%

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87747, Batch ID 40244:
- Sample 1606601-008A MS/MSD: Multiple spike recoveries and RPDs were outside the control limits.
- Sample 1606601-008A MSD: Surrogate Terphenyl-d14 was outside the control limits.
- Sample LCS-40244: Spike recovery for Benzoic Acid and 3,3-Dichlorobenzidine were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87786, Batch ID 40280:
- Sample MB-40180: Surrogate recoveries for 2-Fluorbiphenyl and Nitrobenzene-d5 were outside the control limits.
- Sample LCS40280: Spike and surrogate recoveries for 1-Methylnaphthanele, 2-Fluorobiphenyl, Notrobenzene-d5 and Terphenyl-d14 were outside the control limits.
- Sample 1606601-008A MS: Spike and surrogate recoveries for 1-Methylnaphthalene, Fluoranthene and Inden1,2,3-cd)pyrene, 2-fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.
- Sample 1606601-008A MSD: Several spike recoveries and RPDs were outside the control limits. Surrogate recoveries for 2-fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87450, Batch ID 40376:
- Sample 1606606-002B MS: Spike recoveries for Al, Fe, Mn, K, Se and Zn were outside the control limits.
- Sample 1606606-002B MSD: Spike recoveries for Al, Fe, Mg, and Mn were outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606604-001	**Matrix:**	Soil
Client Sample ID:	H19-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	7,200		56	150	370	mg/Kg-dry	100	7/18/2016 1:04 PM
Antimony	1.4		0.28	0.37	0.74	mg/Kg-dry	1	7/18/2016 12:10 PM
Arsenic	1.4	J	0.54	0.74	1.5	mg/Kg-dry	1	7/18/2016 12:10 PM
Barium	15		0.22	3.7	7.4	mg/Kg-dry	1	7/18/2016 12:10 PM
Beryllium	0.051	J	0.0094	0.037	0.19	mg/Kg-dry	1	7/18/2016 12:10 PM
Cadmium	0.026	J	0.024	0.037	0.19	mg/Kg-dry	1	7/18/2016 12:10 PM
Calcium	420		2.2	7.4	37	mg/Kg-dry	1	7/18/2016 12:10 PM
Chromium	9.2		0.061	0.30	0.37	mg/Kg-dry	1	7/18/2016 12:10 PM
Cobalt	1.5		0.067	0.19	0.74	mg/Kg-dry	1	7/18/2016 12:10 PM
Copper	19		0.31	0.74	3.7	mg/Kg-dry	1	7/18/2016 12:10 PM
Iron	8,600		230	370	1,100	mg/Kg-dry	100	7/18/2016 1:04 PM
Lead	6.8		0.46	0.74	3.7	mg/Kg-dry	1	7/18/2016 12:10 PM
Magnesium	960		2.6	3.7	37	mg/Kg-dry	1	7/18/2016 12:10 PM
Manganese	87		0.14	0.19	0.74	mg/Kg-dry	1	7/18/2016 12:10 PM
Nickel	4.6		0.21	0.74	3.7	mg/Kg-dry	1	7/18/2016 12:10 PM
Potassium	310		1.7	7.4	15	mg/Kg-dry	1	7/18/2016 12:10 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/18/2016 12:10 PM
Silver	0.19	U	0.061	0.19	0.74	mg/Kg-dry	1	7/18/2016 12:10 PM
Sodium	73		1.5	3.7	37	mg/Kg-dry	1	7/18/2016 12:10 PM
Vanadium	13		0.094	0.74	1.9	mg/Kg-dry	1	7/18/2016 12:10 PM
Zinc	13		0.29	0.37	3.7	mg/Kg-dry	1	7/18/2016 12:10 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.058	J	0.037	0.038	0.15	mg/Kg-dry	10	7/12/2016 12:36 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
2-Methylnaphthalene	0.00079		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Acenaphthene	0.0017		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Acenaphthylene	0.0012		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Anthracene	0.0047		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Benzo(a)anthracene	0.027		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Benzo(a)pyrene	0.025		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Benzo(b)fluoranthene	0.037		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 4:07 PM
Benzo(g,h,i)perylene	0.0015		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Benzo(k)fluoranthene	0.016		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Chrysene	0.028		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Dibenzo(a,h)anthracene	0.00089		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Fluoranthene	0.063		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 4:07 PM
Fluorene	0.0020		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Naphthalene	0.00093		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Phenanthrene	0.029		0.00077	0.00077	0.00077	mg/Kg-dry	1	8/3/2016 11:09 PM
Pyrene	0.049		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 4:07 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606604-001	**Matrix:**	Soil
Client Sample ID:	H19-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	56.3			46-115		%Rec	1	8/3/2016 11:09 PM
Surr: Nitrobenzene-d5	66.4			44-125		%Rec	1	8/3/2016 11:09 PM
Surr: Terphenyl-d14	66.7			58-133		%Rec	1	8/3/2016 11:09 PM
Target Compound List for VOA Volatile Organic Compounds			**Method: 8260C-ME**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.078	UQ	0.031	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
1,1,1-Trichloroethane	0.078	U	0.021	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
1,1,2,2-Tetrachloroethane	0.078	U	0.040	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
1,1,2-Trichloroethane	0.078	U	0.027	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
1,1-Dichloroethane	0.078	U	0.027	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
1,1-Dichloroethene	0.078	U	0.028	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
1,2,3-Trichloropropane	0.078	U	0.061	0.078	0.26	mg/Kg-dry	111.8	6/28/2016 2:40 PM
1,2-Dibromo-3-chloropropane	0.13	UZ	0.11	0.13	0.26	mg/Kg-dry	111.8	6/28/2016 2:40 PM
1,2-Dibromoethane	0.078	U	0.030	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
1,2-Dichloroethane	0.078	U	0.024	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
1,2-Dichloropropane	0.078	U	0.035	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
2-Butanone [MEK]	0.65	U	0.088	0.65	1.3	mg/Kg-dry	111.8	6/28/2016 2:40 PM
2-Hexanone	0.078	U	0.044	0.078	0.65	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Acetone	0.28	J	0.070	0.52	0.65	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Benzene	0.078	U	0.021	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Bromodichloromethane	0.078	UQ	0.020	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Bromoform	0.078	U	0.027	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Carbon disulfide	0.078	U	0.059	0.078	0.26	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Carbon tetrachloride	0.078	U	0.025	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Chlorobenzene	0.078	U	0.022	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Chlorodibromomethane	0.078	UZ	0.022	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Chloroethane	0.52	UYQ	0.23	0.52	0.65	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Chloroform	0.078	U	0.021	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Chloromethane	0.16		0.029	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
cis-1,2-Dichloroethene	0.078	U	0.028	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
cis-1,3-Dichloropropene	0.078	U	0.018	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Dichlorodifluoromethane [Freon-12]	0.078	U	0.025	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Ethylbenzene	0.078	U	0.027	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Methylene chloride	0.061	J	0.056	0.078	0.26	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Styrene	0.078	UQ	0.021	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Tetrachloroethene	0.078	U	0.030	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Toluene	0.078	U	0.027	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
trans-1,2-Dichloroethene	0.078	U	0.021	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
trans-1,3-Dichloropropene	0.078	U	0.026	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Trichloroethene	0.078	U	0.050	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Trichlorofluoromethane [Freon-11]	0.078	U	0.026	0.078	0.13	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Vinyl acetate	0.078	U	0.053	0.078	3.2	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Vinyl chloride	0.078	U	0.025	0.078	0.10	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Xylene (Total)	0.19	U	0.079	0.19	0.39	mg/Kg-dry	111.8	6/28/2016 2:40 PM
Surr: 4-Bromofluorobenzene	95.1			79-119		%Rec	111.8	6/28/2016 2:40 PM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606604-001	**Matrix:**	Soil
Client Sample ID:	H19-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	92.7			78-119		%Rec	111.8	6/28/2016 2:40 PM
Surr: Toluene-d8	93.0			85-116		%Rec	111.8	6/28/2016 2:40 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:50:00 AM
Project:	Camp Hero		
Lab ID:	1606604-002	**Matrix:**	Soil
Client Sample ID:	H19-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	11,000		58	160	390	mg/Kg-dry	100	7/18/2016 1:05 PM
Antimony	3.3		0.29	0.39	0.78	mg/Kg-dry	1	7/18/2016 12:12 PM
Arsenic	2.2		0.56	0.78	1.6	mg/Kg-dry	1	7/18/2016 12:12 PM
Barium	24		0.23	3.9	7.8	mg/Kg-dry	1	7/18/2016 12:12 PM
Beryllium	0.083	J	0.0098	0.039	0.19	mg/Kg-dry	1	7/18/2016 12:12 PM
Cadmium	0.055	J	0.026	0.039	0.19	mg/Kg-dry	1	7/18/2016 12:12 PM
Calcium	560		2.3	7.8	39	mg/Kg-dry	1	7/18/2016 12:12 PM
Chromium	16		0.064	0.31	0.39	mg/Kg-dry	1	7/18/2016 12:12 PM
Cobalt	3.4		0.070	0.19	0.78	mg/Kg-dry	1	7/18/2016 12:12 PM
Copper	31		0.32	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:12 PM
Iron	14,000		240	390	1,200	mg/Kg-dry	100	7/18/2016 1:05 PM
Lead	12		0.48	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:12 PM
Magnesium	1,800		2.7	3.9	39	mg/Kg-dry	1	7/18/2016 12:12 PM
Manganese	150		0.14	0.19	0.78	mg/Kg-dry	1	7/18/2016 12:12 PM
Nickel	9.4		0.22	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:12 PM
Potassium	490		1.8	7.8	16	mg/Kg-dry	1	7/18/2016 12:12 PM
Selenium	1.2	U	0.90	1.2	1.6	mg/Kg-dry	1	7/18/2016 12:12 PM
Silver	0.19	U	0.063	0.19	0.78	mg/Kg-dry	1	7/18/2016 12:12 PM
Sodium	97		1.6	3.9	39	mg/Kg-dry	1	7/18/2016 12:12 PM
Vanadium	21		0.098	0.78	1.9	mg/Kg-dry	1	7/18/2016 12:12 PM
Zinc	19		0.30	0.39	3.9	mg/Kg-dry	1	7/18/2016 12:12 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.077	J	0.038	0.039	0.16	mg/Kg-dry	10	7/12/2016 12:37 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
2-Methylnaphthalene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Acenaphthene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Acenaphthylene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Anthracene	0.0023		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Benzo(a)anthracene	0.017		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Benzo(a)pyrene	0.018		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Benzo(b)fluoranthene	0.026		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Benzo(g,h,i)perylene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Benzo(k)fluoranthene	0.014		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Chrysene	0.019		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Dibenzo(a,h)anthracene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Fluoranthene	0.042		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Fluorene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Indeno(1,2,3-cd)pyrene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Naphthalene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Phenanthrene	0.019		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM
Pyrene	0.036		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/3/2016 11:36 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:50:00 AM
Project:	Camp Hero		
Lab ID:	1606604-002	**Matrix:**	Soil
Client Sample ID:	H19-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	56.8			46-115		%Rec	3	8/3/2016 11:36 PM
Surr: Nitrobenzene-d5	62.9			44-125		%Rec	3	8/3/2016 11:36 PM
Surr: Terphenyl-d14	64.9			58-133		%Rec	3	8/3/2016 11:36 PM
Target Compound List for VOA Volatile Organic Compounds			**Method: 8260C-ME**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.078	UQ	0.031	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
1,1,1-Trichloroethane	0.078	U	0.021	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
1,1,2,2-Tetrachloroethane	0.078	U	0.040	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
1,1,2-Trichloroethane	0.078	U	0.027	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
1,1-Dichloroethane	0.078	U	0.027	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
1,1-Dichloroethene	0.078	U	0.028	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
1,2,3-Trichloropropane	0.078	U	0.061	0.078	0.26	mg/Kg-dry	111.2	6/28/2016 3:05 PM
1,2-Dibromo-3-chloropropane	0.13	UZ	0.11	0.13	0.26	mg/Kg-dry	111.2	6/28/2016 3:05 PM
1,2-Dibromoethane	0.078	U	0.030	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
1,2-Dichloroethane	0.078	U	0.024	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
1,2-Dichloropropane	0.078	U	0.035	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
2-Butanone [MEK]	0.65	U	0.088	0.65	1.3	mg/Kg-dry	111.2	6/28/2016 3:05 PM
2-Hexanone	0.078	U	0.044	0.078	0.65	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Acetone	0.23	J	0.070	0.52	0.65	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Benzene	0.078	U	0.021	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Bromodichloromethane	0.078	UQ	0.020	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Bromoform	0.078	U	0.027	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Carbon disulfide	0.078	U	0.059	0.078	0.26	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Carbon tetrachloride	0.078	U	0.025	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Chlorobenzene	0.078	U	0.022	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Chlorodibromomethane	0.078	UZ	0.022	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Chloroethane	0.52	UYQ	0.23	0.52	0.65	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Chloroform	0.078	U	0.021	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Chloromethane	0.16		0.029	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
cis-1,2-Dichloroethene	0.078	U	0.028	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
cis-1,3-Dichloropropene	0.078	U	0.018	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Dichlorodifluoromethane [Freon-12]	0.078	U	0.025	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Ethylbenzene	0.078	U	0.027	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Methylene chloride	0.078	U	0.056	0.078	0.26	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Styrene	0.078	UQ	0.021	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Tetrachloroethene	0.078	U	0.030	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Toluene	0.078	U	0.027	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
trans-1,2-Dichloroethene	0.078	U	0.021	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
trans-1,3-Dichloropropene	0.078	U	0.026	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Trichloroethene	0.078	U	0.050	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Trichlorofluoromethane [Freon-11]	0.078	U	0.026	0.078	0.13	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Vinyl acetate	0.078	U	0.053	0.078	3.2	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Vinyl chloride	0.078	U	0.025	0.078	0.10	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Xylene (Total)	0.19	U	0.079	0.19	0.39	mg/Kg-dry	111.2	6/28/2016 3:05 PM
Surr: 4-Bromofluorobenzene	93.9			79-119		%Rec	111.2	6/28/2016 3:05 PM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:50:00 AM
Project:	Camp Hero		
Lab ID:	1606604-002	**Matrix:**	Soil
Client Sample ID:	H19-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	91.8			78-119		%Rec	111.2	6/28/2016 3:05 PM
Surr: Toluene-d8	93.4			85-116		%Rec	111.2	6/28/2016 3:05 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:50:00 AM
Project:	Camp Hero		
Lab ID:	1606604-003	**Matrix:**	Soil
Client Sample ID:	H19-SS02-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	11,000		58	150	380	mg/Kg-dry	100	7/18/2016 1:07 PM
Antimony	2.5		0.29	0.38	0.77	mg/Kg-dry	1	7/18/2016 12:13 PM
Arsenic	2.2		0.56	0.77	1.5	mg/Kg-dry	1	7/18/2016 12:13 PM
Barium	18		0.23	3.8	7.7	mg/Kg-dry	1	7/18/2016 12:13 PM
Beryllium	0.021	J	0.0097	0.038	0.19	mg/Kg-dry	1	7/18/2016 12:13 PM
Cadmium	0.041	J	0.025	0.038	0.19	mg/Kg-dry	1	7/18/2016 12:13 PM
Calcium	560		2.3	7.7	38	mg/Kg-dry	1	7/18/2016 12:13 PM
Chromium	15		0.063	0.31	0.38	mg/Kg-dry	1	7/18/2016 12:13 PM
Cobalt	2.5		0.069	0.19	0.77	mg/Kg-dry	1	7/18/2016 12:13 PM
Copper	27		0.32	0.77	3.8	mg/Kg-dry	1	7/18/2016 12:13 PM
Iron	12,000		240	380	1,200	mg/Kg-dry	100	7/18/2016 1:07 PM
Lead	10		0.48	0.77	3.8	mg/Kg-dry	1	7/18/2016 12:13 PM
Magnesium	1,700		2.7	3.8	38	mg/Kg-dry	1	7/18/2016 12:13 PM
Manganese	100		0.14	0.19	0.77	mg/Kg-dry	1	7/18/2016 12:13 PM
Nickel	7.5		0.22	0.77	3.8	mg/Kg-dry	1	7/18/2016 12:13 PM
Potassium	450		1.8	7.7	15	mg/Kg-dry	1	7/18/2016 12:13 PM
Selenium	1.2	U	0.89	1.2	1.5	mg/Kg-dry	1	7/18/2016 12:13 PM
Silver	0.19	U	0.063	0.19	0.77	mg/Kg-dry	1	7/18/2016 12:13 PM
Sodium	88		1.6	3.8	38	mg/Kg-dry	1	7/18/2016 12:13 PM
Vanadium	19		0.097	0.77	1.9	mg/Kg-dry	1	7/18/2016 12:13 PM
Zinc	16		0.30	0.38	3.8	mg/Kg-dry	1	7/18/2016 12:13 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.097	J	0.037	0.038	0.15	mg/Kg-dry	10	7/12/2016 12:38 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
2-Methylnaphthalene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Acenaphthene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Acenaphthylene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Anthracene	0.0025		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Benzo(a)anthracene	0.019		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Benzo(a)pyrene	0.019		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Benzo(b)fluoranthene	0.033		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Benzo(g,h,i)perylene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Benzo(k)fluoranthene	0.0094		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Chrysene	0.020		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Dibenzo(a,h)anthracene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Fluoranthene	0.046		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Fluorene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Indeno(1,2,3-cd)pyrene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Naphthalene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Phenanthrene	0.020		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM
Pyrene	0.039		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 12:03 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:50:00 AM
Project:	Camp Hero		
Lab ID:	1606604-003	**Matrix:**	Soil
Client Sample ID:	H19-SS02-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	66.4			46-115		%Rec	3	8/4/2016 12:03 AM
Surr: Nitrobenzene-d5	76.3			44-125		%Rec	3	8/4/2016 12:03 AM
Surr: Terphenyl-d14	74.1			58-133		%Rec	3	8/4/2016 12:03 AM
Target Compound List for VOA Volatile Organic Compounds			**Method: 8260C-ME**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.086	UQ	0.035	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
1,1,1-Trichloroethane	0.086	U	0.024	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
1,1,2,2-Tetrachloroethane	0.086	U	0.044	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
1,1,2-Trichloroethane	0.086	U	0.030	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
1,1-Dichloroethane	0.086	U	0.030	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
1,1-Dichloroethene	0.086	U	0.031	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
1,2,3-Trichloropropane	0.086	U	0.067	0.086	0.29	mg/Kg-dry	123.3	6/28/2016 3:30 PM
1,2-Dibromo-3-chloropropane	0.14	UZ	0.12	0.14	0.29	mg/Kg-dry	123.3	6/28/2016 3:30 PM
1,2-Dibromoethane	0.086	U	0.033	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
1,2-Dichloroethane	0.086	U	0.026	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
1,2-Dichloropropane	0.086	U	0.039	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
2-Butanone [MEK]	0.72	U	0.098	0.72	1.4	mg/Kg-dry	123.3	6/28/2016 3:30 PM
2-Hexanone	0.086	U	0.049	0.086	0.72	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Acetone	0.23	J	0.078	0.58	0.72	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Benzene	0.086	U	0.023	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Bromodichloromethane	0.086	UQ	0.023	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Bromoform	0.086	U	0.030	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Carbon disulfide	0.086	U	0.065	0.086	0.29	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Carbon tetrachloride	0.086	U	0.028	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Chlorobenzene	0.086	U	0.025	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Chlorodibromomethane	0.086	UZ	0.024	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Chloroethane	0.58	UYQ	0.26	0.58	0.72	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Chloroform	0.086	U	0.024	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Chloromethane	0.19		0.032	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
cis-1,2-Dichloroethene	0.086	U	0.031	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
cis-1,3-Dichloropropene	0.086	U	0.021	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Dichlorodifluoromethane [Freon-12]	0.086	U	0.028	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Ethylbenzene	0.086	U	0.030	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Methylene chloride	0.086	J	0.063	0.086	0.29	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Styrene	0.086	UQ	0.023	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Tetrachloroethene	0.086	U	0.034	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Toluene	0.086	U	0.030	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
trans-1,2-Dichloroethene	0.086	U	0.023	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
trans-1,3-Dichloropropene	0.086	U	0.029	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Trichloroethene	0.086	U	0.055	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Trichlorofluoromethane [Freon-11]	0.086	U	0.029	0.086	0.14	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Vinyl acetate	0.086	U	0.059	0.086	3.6	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Vinyl chloride	0.086	U	0.028	0.086	0.12	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Xylene (Total)	0.22	U	0.088	0.22	0.43	mg/Kg-dry	123.3	6/28/2016 3:30 PM
Surr: 4-Bromofluorobenzene	93.0			79-119		%Rec	123.3	6/28/2016 3:30 PM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:50:00 AM
Project:	Camp Hero		
Lab ID:	1606604-003	**Matrix:**	Soil
Client Sample ID:	H19-SS02-01 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Dibromofluoromethane	92.2			78-119		%Rec	123.3	6/28/2016 3:30 PM
Surr: Toluene-d8	93.2			85-116		%Rec	123.3	6/28/2016 3:30 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:35:00 PM
Project:	Camp Hero		
Lab ID:	1606604-004	**Matrix:**	Soil
Client Sample ID:	H22-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:01 AM
Aroclor 1221	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:01 AM
Aroclor 1232	0.0072	U	0.0049	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:01 AM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:01 AM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:01 AM
Aroclor 1254	0.0072	U	0.0046	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:01 AM
Aroclor 1260	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:01 AM
Aroclor 1262	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:01 AM
Aroclor 1268	0.0072	U	0.0026	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:01 AM
Surr: Tetrachloro-m-xylene	65.2			44-130		%Rec	1	7/21/2016 9:01 AM
Surr: Decachlorobiphenyl	79.0			60-125		%Rec	1	7/21/2016 9:01 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,500		53	140	350	mg/Kg-dry	100	7/18/2016 1:53 PM
Antimony	2.9		0.26	0.35	0.70	mg/Kg-dry	1	7/18/2016 12:27 PM
Arsenic	1.8		0.51	0.70	1.4	mg/Kg-dry	1	7/18/2016 12:27 PM
Barium	21		0.21	3.5	7.0	mg/Kg-dry	1	7/18/2016 12:27 PM
Beryllium	0.052	J	0.0089	0.035	0.18	mg/Kg-dry	1	7/18/2016 12:27 PM
Cadmium	0.035	U	0.023	0.035	0.18	mg/Kg-dry	1	7/18/2016 12:27 PM
Calcium	360		2.1	7.0	35	mg/Kg-dry	1	7/18/2016 12:27 PM
Chromium	12		0.058	0.28	0.35	mg/Kg-dry	1	7/18/2016 12:27 PM
Cobalt	2.9		0.063	0.18	0.70	mg/Kg-dry	1	7/18/2016 12:27 PM
Copper	24		0.29	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:27 PM
Iron	10,000		220	350	1,100	mg/Kg-dry	100	7/18/2016 1:53 PM
Lead	3.2	J	0.44	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:27 PM
Magnesium	1,300		2.5	3.5	35	mg/Kg-dry	1	7/18/2016 12:27 PM
Manganese	140		0.13	0.18	0.70	mg/Kg-dry	1	7/18/2016 12:27 PM
Nickel	6.1		0.20	0.70	3.5	mg/Kg-dry	1	7/18/2016 12:27 PM
Potassium	760		1.6	7.0	14	mg/Kg-dry	1	7/18/2016 12:27 PM
Selenium	1.1	U	0.82	1.1	1.4	mg/Kg-dry	1	7/18/2016 12:27 PM
Silver	0.18	U	0.057	0.18	0.70	mg/Kg-dry	1	7/18/2016 12:27 PM
Sodium	54		1.4	3.5	35	mg/Kg-dry	1	7/18/2016 12:27 PM
Vanadium	16		0.089	0.70	1.8	mg/Kg-dry	1	7/18/2016 12:27 PM
Zinc	13		0.27	0.35	3.5	mg/Kg-dry	1	7/18/2016 12:27 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.092	J	0.035	0.036	0.15	mg/Kg-dry	10	7/12/2016 12:43 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:35:00 PM
Project:	Camp Hero		
Lab ID:	1606604-004	**Matrix:**	Soil
Client Sample ID:	H22-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
2,4-Dichlorophenol	0.090	U	0.031	0.090	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
2,4-Dimethyl phenol	0.090	U	0.035	0.090	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
2,4-Dinitrophenol	0.18	U	0.10	0.18	0.90	mg/Kg-dry	1	8/3/2016 1:59 PM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
2-Chlorophenol	0.090	U	0.038	0.090	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
2-Methylphenol (o-Cresol)	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
2-Nitroaniline	0.018	U	0.0088	0.018	0.35	mg/Kg-dry	1	8/3/2016 1:59 PM
2-Nitrophenol	0.090	U	0.045	0.090	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
3,3´-Dichlorobenzidine	0.72	U	0.46	0.72	1.1	mg/Kg-dry	1	8/3/2016 1:59 PM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	8/3/2016 1:59 PM
3/4-Methylphenol [m/p-Cresol]	0.090	U	0.064	0.090	0.35	mg/Kg-dry	1	8/3/2016 1:59 PM
4,6-Dinitro-2-methylphenol	0.090	U	0.052	0.090	0.35	mg/Kg-dry	1	8/3/2016 1:59 PM
4-Bromophenyl phenyl ether	0.090	U	0.046	0.090	0.22	mg/Kg-dry	1	8/3/2016 1:59 PM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
4-Chloroaniline [p-Chloroaniline]	0.090	U	0.027	0.090	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
4-Nitroaniline	0.090	U	0.026	0.090	0.35	mg/Kg-dry	1	8/3/2016 1:59 PM
4-Nitrophenol	0.36	U	0.26	0.36	0.90	mg/Kg-dry	1	8/3/2016 1:59 PM
Benzoic acid	0.36	UY	0.15	0.36	1.1	mg/Kg-dry	1	8/3/2016 1:59 PM
Benzyl alcohol	0.018	U	0.0087	0.018	0.71	mg/Kg-dry	1	8/3/2016 1:59 PM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Bis(2-chloroisopropyl)ether	0.018	UYZ	0.0082	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Hexachlorobutadiene	0.018	U	0.016	0.018	0.054	mg/Kg-dry	1	8/3/2016 1:59 PM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
N-Nitrosodimethylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
N-Nitrosodiphenylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Pentachlorophenol	0.090	UY	0.068	0.090	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Phenol	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	8/3/2016 1:59 PM
Surr: 2,4,6-Tribromophenol	65.0			39-132		%Rec	1	8/3/2016 1:59 PM
Surr: 2-Fluorobiphenyl	59.5			44-115		%Rec	1	8/3/2016 1:59 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:35:00 PM
Project:	Camp Hero		
Lab ID:	1606604-004	**Matrix:**	Soil
Client Sample ID:	H22-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	56.8			35-115		%Rec	1	8/3/2016 1:59 PM
Surr: Nitrobenzene-d5	62.2			37-122		%Rec	1	8/3/2016 1:59 PM
Surr: Phenol-d5	57.5			33-122		%Rec	1	8/3/2016 1:59 PM
Surr: Terphenyl-d14	64.3			54-127		%Rec	1	8/3/2016 1:59 PM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
2-Methylnaphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Acenaphthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Acenaphthylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Anthracene	0.0025		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Benzo(a)anthracene	0.0095		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Benzo(a)pyrene	0.0089		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Benzo(b)fluoranthene	0.019		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Benzo(k)fluoranthene	0.0076		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Chrysene	0.013		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Fluoranthene	0.028		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Fluorene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Indeno(1,2,3-cd)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Naphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Phenanthrene	0.0086		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Pyrene	0.022		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 4:35 PM
Surr: 2-Fluorobiphenyl	66.5			46-115		%Rec	3	8/4/2016 4:35 PM
Surr: Nitrobenzene-d5	74.2			44-125		%Rec	3	8/4/2016 4:35 PM
Surr: Terphenyl-d14	71.0			58-133		%Rec	3	8/4/2016 4:35 PM
Target Compound List for VOA Volatile Organic Compounds			**Method: 8260C-ME**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.070	UQ	0.028	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
1,1,1-Trichloroethane	0.070	U	0.019	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
1,1,2,2-Tetrachloroethane	0.070	U	0.036	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
1,1,2-Trichloroethane	0.070	U	0.025	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
1,1-Dichloroethane	0.070	U	0.024	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
1,1-Dichloroethene	0.070	U	0.025	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
1,2,3-Trichloropropane	0.070	U	0.054	0.070	0.23	mg/Kg-dry	104.8	6/28/2016 3:55 PM
1,2-Dibromo-3-chloropropane	0.12	UZ	0.099	0.12	0.23	mg/Kg-dry	104.8	6/28/2016 3:55 PM
1,2-Dibromoethane	0.070	U	0.027	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
1,2-Dichloroethane	0.070	U	0.021	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
1,2-Dichloropropane	0.070	U	0.031	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
2-Butanone [MEK]	0.58	U	0.079	0.58	1.2	mg/Kg-dry	104.8	6/28/2016 3:55 PM
2-Hexanone	0.070	U	0.039	0.070	0.58	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Acetone	0.17	J	0.063	0.46	0.58	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Benzene	0.070	U	0.019	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Bromodichloromethane	0.070	UQ	0.018	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:35:00 PM
Project:	Camp Hero		
Lab ID:	1606604-004	**Matrix:**	Soil
Client Sample ID:	H22-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromoform	0.070	U	0.024	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Carbon disulfide	0.070	U	0.053	0.070	0.23	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Carbon tetrachloride	0.070	U	0.022	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Chlorobenzene	0.070	U	0.020	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Chlorodibromomethane	0.070	UZ	0.019	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Chloroethane	0.46	UYQ	0.21	0.46	0.58	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Chloroform	0.070	U	0.019	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Chloromethane	0.16		0.026	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
cis-1,2-Dichloroethene	0.070	U	0.025	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
cis-1,3-Dichloropropene	0.070	U	0.017	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Dichlorodifluoromethane [Freon-12]	0.070	U	0.023	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Ethylbenzene	0.070	U	0.024	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Methylene chloride	0.064	J	0.051	0.070	0.23	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Styrene	0.070	UQ	0.018	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Tetrachloroethene	0.070	U	0.027	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Toluene	0.070	U	0.024	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
trans-1,2-Dichloroethene	0.070	U	0.019	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
trans-1,3-Dichloropropene	0.070	U	0.024	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Trichloroethene	0.070	U	0.044	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Trichlorofluoromethane [Freon-11]	0.070	U	0.023	0.070	0.12	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Vinyl acetate	0.070	U	0.047	0.070	2.9	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Vinyl chloride	0.070	U	0.023	0.070	0.093	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Xylene (Total)	0.17	U	0.071	0.17	0.35	mg/Kg-dry	104.8	6/28/2016 3:55 PM
Surr: 4-Bromofluorobenzene	92.9			79-119		%Rec	104.8	6/28/2016 3:55 PM
Surr: Dibromofluoromethane	91.9			78-119		%Rec	104.8	6/28/2016 3:55 PM
Surr: Toluene-d8	93.0			85-116		%Rec	104.8	6/28/2016 3:55 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	9.8	1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:45:00 PM
Project:	Camp Hero		
Lab ID:	1606604-005	**Matrix:**	Soil
Client Sample ID:	H22-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:25 AM
Aroclor 1221	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:25 AM
Aroclor 1232	0.0072	U	0.0048	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:25 AM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:25 AM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:25 AM
Aroclor 1254	0.0072	U	0.0046	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:25 AM
Aroclor 1260	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:25 AM
Aroclor 1262	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:25 AM
Aroclor 1268	0.0072	U	0.0026	0.0072	0.036	mg/Kg-dry	1	7/21/2016 9:25 AM
Surr: Tetrachloro-m-xylene	53.8			44-130		%Rec	1	7/21/2016 9:25 AM
Surr: Decachlorobiphenyl	69.6			60-125		%Rec	1	7/21/2016 9:25 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	11,000		54	150	360	mg/Kg-dry	100	7/18/2016 1:54 PM
Antimony	4.3		0.27	0.36	0.73	mg/Kg-dry	1	7/18/2016 12:29 PM
Arsenic	1.9		0.53	0.73	1.5	mg/Kg-dry	1	7/18/2016 12:29 PM
Barium	32		0.22	3.6	7.3	mg/Kg-dry	1	7/18/2016 12:29 PM
Beryllium	0.055	J	0.0092	0.036	0.18	mg/Kg-dry	1	7/18/2016 12:29 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/18/2016 12:29 PM
Calcium	580		2.1	7.3	36	mg/Kg-dry	1	7/18/2016 12:29 PM
Chromium	16		0.060	0.29	0.36	mg/Kg-dry	1	7/18/2016 12:29 PM
Cobalt	4.3		0.065	0.18	0.73	mg/Kg-dry	1	7/18/2016 12:29 PM
Copper	31		0.30	0.73	3.6	mg/Kg-dry	1	7/18/2016 12:29 PM
Iron	12,000		23	36	110	mg/Kg-dry	10	7/18/2016 1:26 PM
Lead	3.4	J	0.45	0.73	3.6	mg/Kg-dry	1	7/18/2016 12:29 PM
Magnesium	2,200		25	36	360	mg/Kg-dry	10	7/18/2016 1:26 PM
Manganese	230		1.3	1.8	7.3	mg/Kg-dry	10	7/18/2016 1:26 PM
Nickel	8.8		0.20	0.73	3.6	mg/Kg-dry	1	7/18/2016 12:29 PM
Potassium	1,300		1.7	7.3	15	mg/Kg-dry	1	7/18/2016 12:29 PM
Selenium	1.1	U	0.84	1.1	1.5	mg/Kg-dry	1	7/18/2016 12:29 PM
Silver	0.18	U	0.059	0.18	0.73	mg/Kg-dry	1	7/18/2016 12:29 PM
Sodium	90		1.5	3.6	36	mg/Kg-dry	1	7/18/2016 12:29 PM
Vanadium	21		0.092	0.73	1.8	mg/Kg-dry	1	7/18/2016 12:29 PM
Zinc	18		0.28	0.36	3.6	mg/Kg-dry	1	7/18/2016 12:29 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	J	0.034	0.035	0.14	mg/Kg-dry	10	7/12/2016 12:43 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.054	U	0.030	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
1,2-Dichlorobenzene	0.054	U	0.023	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
1,3-Dichlorobenzene	0.054	U	0.022	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
1,4-Dichlorobenzene	0.054	U	0.017	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
2,4,5-Trichlorophenol	0.11	U	0.053	0.11	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:45:00 PM
Project:	Camp Hero		
Lab ID:	1606604-005	**Matrix:**	Soil
Client Sample ID:	H22-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.11	U	0.060	0.11	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
2,4-Dichlorophenol	0.27	U	0.092	0.27	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
2,4-Dimethyl phenol	0.27	U	0.10	0.27	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
2,4-Dinitrophenol	0.54	U	0.31	0.54	2.7	mg/Kg-dry	3	8/3/2016 2:23 PM
2,4-Dinitrotoluene	0.054	U	0.047	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
2,6-Dinitrotoluene	0.054	U	0.051	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
2-Chloronaphthalene	0.054	U	0.036	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
2-Chlorophenol	0.27	U	0.11	0.27	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
2-Methylphenol (o-Cresol)	0.27	U	0.12	0.27	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
2-Nitroaniline	0.054	U	0.026	0.054	1.0	mg/Kg-dry	3	8/3/2016 2:23 PM
2-Nitrophenol	0.27	U	0.13	0.27	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
3,3´-Dichlorobenzidine	2.1	U	1.4	2.1	3.2	mg/Kg-dry	3	8/3/2016 2:23 PM
3-Nitroaniline	0.054	U	0.038	0.054	1.0	mg/Kg-dry	3	8/3/2016 2:23 PM
3/4-Methylphenol [m/p-Cresol]	0.27	U	0.19	0.27	1.0	mg/Kg-dry	3	8/3/2016 2:23 PM
4,6-Dinitro-2-methylphenol	0.27	U	0.15	0.27	1.0	mg/Kg-dry	3	8/3/2016 2:23 PM
4-Bromophenyl phenyl ether	0.27	U	0.14	0.27	0.64	mg/Kg-dry	3	8/3/2016 2:23 PM
4-Chloro-3-methylphenol	0.11	U	0.056	0.11	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
4-Chloroaniline [p-Chloroaniline]	0.27	U	0.081	0.27	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
4-Chlorophenyl phenyl ether	0.054	U	0.033	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
4-Nitroaniline	0.27	U	0.077	0.27	1.0	mg/Kg-dry	3	8/3/2016 2:23 PM
4-Nitrophenol	1.1	U	0.77	1.1	2.7	mg/Kg-dry	3	8/3/2016 2:23 PM
Benzoic acid	1.1	UY	0.43	1.1	3.2	mg/Kg-dry	3	8/3/2016 2:23 PM
Benzyl alcohol	0.054	U	0.026	0.054	2.1	mg/Kg-dry	3	8/3/2016 2:23 PM
Bis(2-chloroethoxy) methane	0.054	U	0.022	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Bis(2-chloroethyl) ether	0.11	U	0.058	0.11	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Bis(2-chloroisopropyl)ether	0.054	UYZ	0.025	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Bis(2-ethylhexyl) phthalate	0.11	U	0.095	0.11	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Butyl benzyl phthalate	0.11	U	0.063	0.11	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Carbazole	0.054	U	0.037	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Di-n-butyl phthalate	0.11	U	0.058	0.11	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Di-n-octyl phthalate	0.054	U	0.037	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Dibenzofuran	0.054	U	0.027	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Diethyl phthalate	0.054	U	0.039	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Dimethyl phthalate	0.054	U	0.036	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Hexachlorobenzene	0.054	U	0.029	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Hexachlorobutadiene	0.054	U	0.049	0.054	0.16	mg/Kg-dry	3	8/3/2016 2:23 PM
Hexachloroethane	0.054	U	0.025	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Isophorone	0.054	U	0.022	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
N-Nitroso-di-n-propylamine	0.054	U	0.030	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
N-Nitrosodimethylamine	0.054	U	0.026	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
N-Nitrosodiphenylamine	0.054	U	0.026	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Nitrobenzene	0.054	U	0.033	0.054	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Pentachlorophenol	0.27	UY	0.20	0.27	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Phenol	0.27	U	0.12	0.27	0.52	mg/Kg-dry	3	8/3/2016 2:23 PM
Surr: 2,4,6-Tribromophenol	129			39-132		%Rec	3	8/3/2016 2:23 PM
Surr: 2-Fluorobiphenyl	122	Q		44-115		%Rec	3	8/3/2016 2:23 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 12:45:00 PM
Project: Camp Hero
Lab ID: 1606604-005 **Matrix:** Soil
Client Sample ID: H22-SS01-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	113	J		35-115		%Rec	3	8/3/2016 2:23 PM
Surr: Nitrobenzene-d5	124	Q		37-122		%Rec	3	8/3/2016 2:23 PM
Surr: Phenol-d5	116	J		33-122		%Rec	3	8/3/2016 2:23 PM
Surr: Terphenyl-d14	132	Q		54-127		%Rec	3	8/3/2016 2:23 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
2-Methylnaphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Acenaphthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Acenaphthylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Benzo(a)anthracene	0.0044		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Benzo(a)pyrene	0.0044		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Benzo(b)fluoranthene	0.010		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Benzo(k)fluoranthene	0.0023		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Chrysene	0.0054		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Fluoranthene	0.010		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Fluorene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Indeno(1,2,3-cd)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Naphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Phenanthrene	0.0029		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Pyrene	0.0087		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:03 PM
Surr: 2-Fluorobiphenyl	59.9			46-115		%Rec	3	8/4/2016 5:03 PM
Surr: Nitrobenzene-d5	69.2			44-125		%Rec	3	8/4/2016 5:03 PM
Surr: Terphenyl-d14	65.3			58-133		%Rec	3	8/4/2016 5:03 PM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.069	UQ	0.028	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
1,1,1-Trichloroethane	0.069	U	0.019	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
1,1,2,2-Tetrachloroethane	0.069	U	0.035	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
1,1,2-Trichloroethane	0.069	U	0.024	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
1,1-Dichloroethane	0.069	U	0.024	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
1,1-Dichloroethene	0.069	U	0.025	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
1,2,3-Trichloropropane	0.069	U	0.054	0.069	0.23	mg/Kg-dry	104.4	6/28/2016 4:20 PM
1,2-Dibromo-3-chloropropane	0.12	UZ	0.098	0.12	0.23	mg/Kg-dry	104.4	6/28/2016 4:20 PM
1,2-Dibromoethane	0.069	U	0.027	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
1,2-Dichloroethane	0.069	U	0.021	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
1,2-Dichloropropane	0.069	U	0.031	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
2-Butanone [MEK]	0.58	U	0.078	0.58	1.2	mg/Kg-dry	104.4	6/28/2016 4:20 PM
2-Hexanone	0.069	U	0.039	0.069	0.58	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Acetone	0.46	U	0.063	0.46	0.58	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Benzene	0.069	U	0.019	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Bromodichloromethane	0.069	UQ	0.018	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:45:00 PM
Project:	Camp Hero		
Lab ID:	1606604-005	**Matrix:**	Soil
Client Sample ID:	H22-SS01-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromoform	0.069	U	0.024	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Carbon disulfide	0.069	U	0.052	0.069	0.23	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Carbon tetrachloride	0.069	U	0.022	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Chlorobenzene	0.069	U	0.020	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Chlorodibromomethane	0.069	UZ	0.019	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Chloroethane	0.46	UYQ	0.21	0.46	0.58	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Chloroform	0.069	U	0.019	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Chloromethane	0.14		0.026	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
cis-1,2-Dichloroethene	0.069	U	0.025	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
cis-1,3-Dichloropropene	0.069	U	0.016	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Dichlorodifluoromethane [Freon-12]	0.069	U	0.023	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Ethylbenzene	0.069	U	0.024	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Methylene chloride	0.060	J	0.050	0.069	0.23	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Styrene	0.069	UQ	0.018	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Tetrachloroethene	0.069	U	0.027	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Toluene	0.069	U	0.024	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
trans-1,2-Dichloroethene	0.069	U	0.019	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
trans-1,3-Dichloropropene	0.069	U	0.023	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Trichloroethene	0.069	U	0.044	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Trichlorofluoromethane [Freon-11]	0.069	U	0.023	0.069	0.12	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Vinyl acetate	0.069	U	0.047	0.069	2.9	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Vinyl chloride	0.069	U	0.023	0.069	0.092	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Xylene (Total)	0.17	U	0.070	0.17	0.35	mg/Kg-dry	104.4	6/28/2016 4:20 PM
Surr: 4-Bromofluorobenzene	92.8			79-119		%Rec	104.4	6/28/2016 4:20 PM
Surr: Dibromofluoromethane	91.7			78-119		%Rec	104.4	6/28/2016 4:20 PM
Surr: Toluene-d8	94.3			85-116		%Rec	104.4	6/28/2016 4:20 PM

Percent Moisture — **Method: ASTM-D2216** — **Analyst: NS1**

Percent Moisture	9.3	1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:00:00 PM
Project:	Camp Hero		
Lab ID:	1606604-006	**Matrix:**	Soil
Client Sample ID:	H22-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/21/2016 9:49 AM
Aroclor 1221	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	7/21/2016 9:49 AM
Aroclor 1232	0.0075	U	0.0051	0.0075	0.037	mg/Kg-dry	1	7/21/2016 9:49 AM
Aroclor 1242	0.0075	U	0.0042	0.0075	0.037	mg/Kg-dry	1	7/21/2016 9:49 AM
Aroclor 1248	0.0075	U	0.0040	0.0075	0.037	mg/Kg-dry	1	7/21/2016 9:49 AM
Aroclor 1254	0.0075	U	0.0048	0.0075	0.037	mg/Kg-dry	1	7/21/2016 9:49 AM
Aroclor 1260	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/21/2016 9:49 AM
Aroclor 1262	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	7/21/2016 9:49 AM
Aroclor 1268	0.0075	U	0.0028	0.0075	0.037	mg/Kg-dry	1	7/21/2016 9:49 AM
Surr: Tetrachloro-m-xylene	61.1			44-130		%Rec	1	7/21/2016 9:49 AM
Surr: Decachlorobiphenyl	79.5			60-125		%Rec	1	7/21/2016 9:49 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,500		53	140	360	mg/Kg-dry	100	7/18/2016 1:55 PM
Antimony	1.3		0.27	0.36	0.71	mg/Kg-dry	1	7/18/2016 12:30 PM
Arsenic	1.4		0.52	0.71	1.4	mg/Kg-dry	1	7/18/2016 12:30 PM
Barium	13		0.21	3.6	7.1	mg/Kg-dry	1	7/18/2016 12:30 PM
Beryllium	0.029	J	0.0090	0.036	0.18	mg/Kg-dry	1	7/18/2016 12:30 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/18/2016 12:30 PM
Calcium	380		2.1	7.1	36	mg/Kg-dry	1	7/18/2016 12:30 PM
Chromium	9.4		0.059	0.29	0.36	mg/Kg-dry	1	7/18/2016 12:30 PM
Cobalt	1.4		0.064	0.18	0.71	mg/Kg-dry	1	7/18/2016 12:30 PM
Copper	19		0.30	0.71	3.6	mg/Kg-dry	1	7/18/2016 12:30 PM
Iron	8,900		220	360	1,100	mg/Kg-dry	100	7/18/2016 1:55 PM
Lead	4.4		0.44	0.71	3.6	mg/Kg-dry	1	7/18/2016 12:30 PM
Magnesium	700		2.5	3.6	36	mg/Kg-dry	1	7/18/2016 12:30 PM
Manganese	79		0.13	0.18	0.71	mg/Kg-dry	1	7/18/2016 12:30 PM
Nickel	4.0		0.20	0.71	3.6	mg/Kg-dry	1	7/18/2016 12:30 PM
Potassium	300		1.7	7.1	14	mg/Kg-dry	1	7/18/2016 12:30 PM
Selenium	1.1	U	0.83	1.1	1.4	mg/Kg-dry	1	7/18/2016 12:30 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	7/18/2016 12:30 PM
Sodium	52		1.5	3.6	36	mg/Kg-dry	1	7/18/2016 12:30 PM
Vanadium	13		0.090	0.71	1.8	mg/Kg-dry	1	7/18/2016 12:30 PM
Zinc	11		0.28	0.36	3.6	mg/Kg-dry	1	7/18/2016 12:30 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.056	J	0.036	0.038	0.15	mg/Kg-dry	10	7/12/2016 12:44 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
1,2-Dichlorobenzene	0.019	U	0.0082	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
1,3-Dichlorobenzene	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
1,4-Dichlorobenzene	0.019	U	0.0060	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 1:00:00 PM
Project: Camp Hero
Lab ID: 1606604-006 **Matrix:** Soil
Client Sample ID: H22-SS02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
2,4-Dichlorophenol	0.094	U	0.032	0.094	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
2,4-Dimethyl phenol	0.094	U	0.036	0.094	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
2,4-Dinitrophenol	0.19	U	0.11	0.19	0.94	mg/Kg-dry	1	8/3/2016 2:48 PM
2,4-Dinitrotoluene	0.019	U	0.016	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
2-Chlorophenol	0.094	U	0.039	0.094	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
2-Methylphenol (o-Cresol)	0.094	U	0.041	0.094	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
2-Nitroaniline	0.019	U	0.0092	0.019	0.36	mg/Kg-dry	1	8/3/2016 2:48 PM
2-Nitrophenol	0.094	U	0.047	0.094	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
3,3´-Dichlorobenzidine	0.75	U	0.48	0.75	1.1	mg/Kg-dry	1	8/3/2016 2:48 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.36	mg/Kg-dry	1	8/3/2016 2:48 PM
3/4-Methylphenol [m/p-Cresol]	0.094	U	0.067	0.094	0.36	mg/Kg-dry	1	8/3/2016 2:48 PM
4,6-Dinitro-2-methylphenol	0.094	U	0.054	0.094	0.36	mg/Kg-dry	1	8/3/2016 2:48 PM
4-Bromophenyl phenyl ether	0.094	U	0.048	0.094	0.23	mg/Kg-dry	1	8/3/2016 2:48 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
4-Chloroaniline [p-Chloroaniline]	0.094	U	0.028	0.094	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
4-Nitroaniline	0.094	U	0.027	0.094	0.36	mg/Kg-dry	1	8/3/2016 2:48 PM
4-Nitrophenol	0.38	U	0.27	0.38	0.94	mg/Kg-dry	1	8/3/2016 2:48 PM
Benzoic acid	0.38	UY	0.15	0.38	1.1	mg/Kg-dry	1	8/3/2016 2:48 PM
Benzyl alcohol	0.019	U	0.0091	0.019	0.75	mg/Kg-dry	1	8/3/2016 2:48 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0086	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.033	0.038	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Butyl benzyl phthalate	0.038	U	0.022	0.038	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Di-n-butyl phthalate	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Dibenzofuran	0.019	U	0.0096	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Hexachlorobutadiene	0.019	U	0.017	0.019	0.057	mg/Kg-dry	1	8/3/2016 2:48 PM
Hexachloroethane	0.019	U	0.0087	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Isophorone	0.019	U	0.0078	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
N-Nitroso-di-n-propylamine	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
N-Nitrosodimethylamine	0.019	U	0.0092	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
N-Nitrosodiphenylamine	0.019	U	0.0091	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Pentachlorophenol	0.094	UY	0.071	0.094	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Phenol	0.094	U	0.040	0.094	0.18	mg/Kg-dry	1	8/3/2016 2:48 PM
Surr: 2,4,6-Tribromophenol	70.3			39-132		%Rec	1	8/3/2016 2:48 PM
Surr: 2-Fluorobiphenyl	64.2			44-115		%Rec	1	8/3/2016 2:48 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:00:00 PM
Project:	Camp Hero		
Lab ID:	1606604-006	**Matrix:**	Soil
Client Sample ID:	H22-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	63.9			35-115		%Rec	1	8/3/2016 2:48 PM
Surr: Nitrobenzene-d5	65.1			37-122		%Rec	1	8/3/2016 2:48 PM
Surr: Phenol-d5	64.3			33-122		%Rec	1	8/3/2016 2:48 PM
Surr: Terphenyl-d14	68.6			54-127		%Rec	1	8/3/2016 2:48 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
2-Methylnaphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Acenaphthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Acenaphthylene	0.0030		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Anthracene	0.0057		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Benzo(a)anthracene	0.019		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Benzo(a)pyrene	0.020		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Benzo(b)fluoranthene	0.040		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Benzo(k)fluoranthene	0.0080		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Chrysene	0.021		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Fluoranthene	0.033		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Fluorene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Indeno(1,2,3-cd)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Naphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Phenanthrene	0.010		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Pyrene	0.027		0.0022	0.0022	0.0022	mg/Kg-dry	3	8/4/2016 5:32 PM
Surr: 2-Fluorobiphenyl	57.7			46-115		%Rec	3	8/4/2016 5:32 PM
Surr: Nitrobenzene-d5	64.9			44-125		%Rec	3	8/4/2016 5:32 PM
Surr: Terphenyl-d14	63.4			58-133		%Rec	3	8/4/2016 5:32 PM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.069	UQ	0.028	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
1,1,1-Trichloroethane	0.069	U	0.019	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
1,1,2,2-Tetrachloroethane	0.069	U	0.035	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
1,1,2-Trichloroethane	0.069	U	0.024	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
1,1-Dichloroethane	0.069	U	0.024	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
1,1-Dichloroethene	0.069	U	0.024	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
1,2,3-Trichloropropane	0.069	U	0.053	0.069	0.23	mg/Kg-dry	100.2	6/28/2016 4:45 PM
1,2-Dibromo-3-chloropropane	0.11	UZ	0.098	0.11	0.23	mg/Kg-dry	100.2	6/28/2016 4:45 PM
1,2-Dibromoethane	0.069	U	0.027	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
1,2-Dichloroethane	0.069	U	0.021	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
1,2-Dichloropropane	0.069	U	0.031	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
2-Butanone [MEK]	0.57	U	0.078	0.57	1.1	mg/Kg-dry	100.2	6/28/2016 4:45 PM
2-Hexanone	0.069	U	0.039	0.069	0.57	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Acetone	0.27	J	0.062	0.46	0.57	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Benzene	0.069	U	0.019	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Bromodichloromethane	0.069	UQ	0.018	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:00:00 PM
Project:	Camp Hero		
Lab ID:	1606604-006	**Matrix:**	Soil
Client Sample ID:	H22-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromoform	0.069	U	0.024	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Carbon disulfide	0.069	U	0.052	0.069	0.23	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Carbon tetrachloride	0.069	U	0.022	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Chlorobenzene	0.069	U	0.020	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Chlorodibromomethane	0.069	UZ	0.019	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Chloroethane	0.46	UYQ	0.20	0.46	0.57	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Chloroform	0.069	U	0.019	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Chloromethane	0.15		0.026	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
cis-1,2-Dichloroethene	0.069	U	0.024	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
cis-1,3-Dichloropropene	0.069	U	0.016	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Dichlorodifluoromethane [Freon-12]	0.069	U	0.022	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Ethylbenzene	0.069	U	0.024	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Methylene chloride	0.064	J	0.050	0.069	0.23	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Styrene	0.069	UQ	0.018	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Tetrachloroethene	0.069	U	0.027	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Toluene	0.069	U	0.024	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
trans-1,2-Dichloroethene	0.069	U	0.018	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
trans-1,3-Dichloropropene	0.069	U	0.023	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Trichloroethene	0.069	U	0.044	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Trichlorofluoromethane [Freon-11]	0.069	U	0.023	0.069	0.11	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Vinyl acetate	0.069	U	0.047	0.069	2.9	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Vinyl chloride	0.069	U	0.022	0.069	0.091	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Xylene (Total)	0.17	U	0.070	0.17	0.34	mg/Kg-dry	100.2	6/28/2016 4:45 PM
Surr: 4-Bromofluorobenzene	94.0			79-119		%Rec	100.2	6/28/2016 4:45 PM
Surr: Dibromofluoromethane	92.6			78-119		%Rec	100.2	6/28/2016 4:45 PM
Surr: Toluene-d8	93.5			85-116		%Rec	100.2	6/28/2016 4:45 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	12	1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:05:00 PM
Project:	Camp Hero		
Lab ID:	1606604-007	**Matrix:**	Soil
Client Sample ID:	H22-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	7/21/2016 10:14 AM
Aroclor 1221	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	7/21/2016 10:14 AM
Aroclor 1232	0.0077	U	0.0052	0.0077	0.038	mg/Kg-dry	1	7/21/2016 10:14 AM
Aroclor 1242	0.0077	U	0.0043	0.0077	0.038	mg/Kg-dry	1	7/21/2016 10:14 AM
Aroclor 1248	0.0077	U	0.0041	0.0077	0.038	mg/Kg-dry	1	7/21/2016 10:14 AM
Aroclor 1254	0.0077	U	0.0049	0.0077	0.038	mg/Kg-dry	1	7/21/2016 10:14 AM
Aroclor 1260	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	7/21/2016 10:14 AM
Aroclor 1262	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	7/21/2016 10:14 AM
Aroclor 1268	0.0077	U	0.0028	0.0077	0.038	mg/Kg-dry	1	7/21/2016 10:14 AM
Surr: Tetrachloro-m-xylene	56.0			44-130		%Rec	1	7/21/2016 10:14 AM
Surr: Decachlorobiphenyl	64.6			60-125		%Rec	1	7/21/2016 10:14 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,400		59	160	390	mg/Kg-dry	100	7/18/2016 1:56 PM
Antimony	1.3		0.29	0.39	0.78	mg/Kg-dry	1	7/18/2016 12:31 PM
Arsenic	1.6	J	0.57	0.78	1.6	mg/Kg-dry	1	7/18/2016 12:31 PM
Barium	13		0.23	3.9	7.8	mg/Kg-dry	1	7/18/2016 12:31 PM
Beryllium	0.019	J	0.0099	0.039	0.20	mg/Kg-dry	1	7/18/2016 12:31 PM
Cadmium	0.034	J	0.026	0.039	0.20	mg/Kg-dry	1	7/18/2016 12:31 PM
Calcium	420		2.3	7.8	39	mg/Kg-dry	1	7/18/2016 12:31 PM
Chromium	9.0		0.064	0.31	0.39	mg/Kg-dry	1	7/18/2016 12:31 PM
Cobalt	1.3		0.070	0.20	0.78	mg/Kg-dry	1	7/18/2016 12:31 PM
Copper	18		0.33	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:31 PM
Iron	9,000		240	390	1,200	mg/Kg-dry	100	7/18/2016 1:56 PM
Lead	3.8	J	0.49	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:31 PM
Magnesium	630		2.7	3.9	39	mg/Kg-dry	1	7/18/2016 12:31 PM
Manganese	83		0.14	0.20	0.78	mg/Kg-dry	1	7/18/2016 12:31 PM
Nickel	3.9	J	0.22	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:31 PM
Potassium	280		1.8	7.8	16	mg/Kg-dry	1	7/18/2016 12:31 PM
Selenium	1.2	U	0.91	1.2	1.6	mg/Kg-dry	1	7/18/2016 12:31 PM
Silver	0.20	U	0.064	0.20	0.78	mg/Kg-dry	1	7/18/2016 12:31 PM
Sodium	51		1.6	3.9	39	mg/Kg-dry	1	7/18/2016 12:31 PM
Vanadium	13		0.099	0.78	2.0	mg/Kg-dry	1	7/18/2016 12:31 PM
Zinc	11		0.30	0.39	3.9	mg/Kg-dry	1	7/18/2016 12:31 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.048	J	0.036	0.037	0.15	mg/Kg-dry	10	7/12/2016 12:45 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
1,2-Dichlorobenzene	0.019	U	0.0083	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
1,3-Dichlorobenzene	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
1,4-Dichlorobenzene	0.019	U	0.0062	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 1:05:00 PM
Project: Camp Hero
Lab ID: 1606604-007 **Matrix:** Soil
Client Sample ID: H22-SS02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
2,4-Dichlorophenol	0.096	U	0.033	0.096	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
2,4-Dimethyl phenol	0.096	U	0.037	0.096	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
2,4-Dinitrophenol	0.19	U	0.11	0.19	0.96	mg/Kg-dry	1	8/3/2016 3:12 PM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
2-Chlorophenol	0.096	U	0.040	0.096	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
2-Methylphenol (o-Cresol)	0.096	U	0.041	0.096	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
2-Nitroaniline	0.019	U	0.0094	0.019	0.37	mg/Kg-dry	1	8/3/2016 3:12 PM
2-Nitrophenol	0.096	U	0.048	0.096	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
3,3´-Dichlorobenzidine	0.77	U	0.49	0.77	1.2	mg/Kg-dry	1	8/3/2016 3:12 PM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	8/3/2016 3:12 PM
3/4-Methylphenol [m/p-Cresol]	0.096	U	0.069	0.096	0.37	mg/Kg-dry	1	8/3/2016 3:12 PM
4,6-Dinitro-2-methylphenol	0.096	U	0.055	0.096	0.37	mg/Kg-dry	1	8/3/2016 3:12 PM
4-Bromophenyl phenyl ether	0.096	U	0.049	0.096	0.23	mg/Kg-dry	1	8/3/2016 3:12 PM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
4-Chloroaniline [p-Chloroaniline]	0.096	U	0.029	0.096	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
4-Nitroaniline	0.096	U	0.028	0.096	0.37	mg/Kg-dry	1	8/3/2016 3:12 PM
4-Nitrophenol	0.38	U	0.28	0.38	0.96	mg/Kg-dry	1	8/3/2016 3:12 PM
Benzoic acid	0.38	UY	0.16	0.38	1.2	mg/Kg-dry	1	8/3/2016 3:12 PM
Benzyl alcohol	0.019	U	0.0093	0.019	0.76	mg/Kg-dry	1	8/3/2016 3:12 PM
Bis(2-chloroethoxy) methane	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Bis(2-chloroethyl) ether	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Bis(2-chloroisopropyl)ether	0.019	UYZ	0.0088	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Bis(2-ethylhexyl) phthalate	0.038	U	0.034	0.038	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Butyl benzyl phthalate	0.038	U	0.023	0.038	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Di-n-butyl phthalate	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Dibenzofuran	0.019	U	0.0098	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Hexachlorobutadiene	0.019	U	0.018	0.019	0.058	mg/Kg-dry	1	8/3/2016 3:12 PM
Hexachloroethane	0.019	U	0.0089	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Isophorone	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
N-Nitrosodimethylamine	0.019	U	0.0094	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
N-Nitrosodiphenylamine	0.019	U	0.0093	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Pentachlorophenol	0.096	UY	0.072	0.096	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Phenol	0.096	U	0.041	0.096	0.18	mg/Kg-dry	1	8/3/2016 3:12 PM
Surr: 2,4,6-Tribromophenol	70.0			39-132		%Rec	1	8/3/2016 3:12 PM
Surr: 2-Fluorobiphenyl	63.4			44-115		%Rec	1	8/3/2016 3:12 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:05:00 PM
Project:	Camp Hero		
Lab ID:	1606604-007	**Matrix:**	Soil
Client Sample ID:	H22-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorophenol	63.1			35-115		%Rec	1	8/3/2016 3:12 PM
Surr: Nitrobenzene-d5	64.2			37-122		%Rec	1	8/3/2016 3:12 PM
Surr: Phenol-d5	62.0			33-122		%Rec	1	8/3/2016 3:12 PM
Surr: Terphenyl-d14	68.4			54-127		%Rec	1	8/3/2016 3:12 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
2-Methylnaphthalene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Acenaphthene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Acenaphthylene	0.0026		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Anthracene	0.0046		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Benzo(a)anthracene	0.015		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Benzo(a)pyrene	0.015		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Benzo(b)fluoranthene	0.027		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Benzo(g,h,i)perylene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Benzo(k)fluoranthene	0.012		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Chrysene	0.016		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Dibenzo(a,h)anthracene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Fluoranthene	0.027		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Fluorene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Indeno(1,2,3-cd)pyrene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Naphthalene	0.0023	U	0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Phenanthrene	0.0078		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Pyrene	0.023		0.0023	0.0023	0.0023	mg/Kg-dry	3	8/4/2016 6:01 PM
Surr: 2-Fluorobiphenyl	57.7			46-115		%Rec	3	8/4/2016 6:01 PM
Surr: Nitrobenzene-d5	64.1			44-125		%Rec	3	8/4/2016 6:01 PM
Surr: Terphenyl-d14	63.1			58-133		%Rec	3	8/4/2016 6:01 PM
Target Compound List for VOA			**Method: 8260C-ME**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.075	UQ	0.030	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
1,1,1-Trichloroethane	0.075	U	0.020	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
1,1,2,2-Tetrachloroethane	0.075	U	0.038	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
1,1,2-Trichloroethane	0.075	U	0.026	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
1,1-Dichloroethane	0.075	U	0.026	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
1,1-Dichloroethene	0.075	U	0.026	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
1,2,3-Trichloropropane	0.075	U	0.058	0.075	0.25	mg/Kg-dry	105.7	6/28/2016 5:10 PM
1,2-Dibromo-3-chloropropane	0.12	UZ	0.11	0.12	0.25	mg/Kg-dry	105.7	6/28/2016 5:10 PM
1,2-Dibromoethane	0.075	U	0.029	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
1,2-Dichloroethane	0.075	U	0.023	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
1,2-Dichloropropane	0.075	U	0.034	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
2-Butanone [MEK]	0.62	U	0.084	0.62	1.2	mg/Kg-dry	105.7	6/28/2016 5:10 PM
2-Hexanone	0.075	U	0.042	0.075	0.62	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Acetone	0.50	U	0.067	0.50	0.62	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Benzene	0.075	U	0.020	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Bromodichloromethane	0.075	UQ	0.020	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:05:00 PM
Project:	Camp Hero		
Lab ID:	1606604-007	**Matrix:**	Soil
Client Sample ID:	H22-SS02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromoform	0.075	U	0.026	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Carbon disulfide	0.075	U	0.056	0.075	0.25	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Carbon tetrachloride	0.075	U	0.024	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Chlorobenzene	0.075	U	0.021	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Chlorodibromomethane	0.075	UZ	0.021	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Chloroethane	0.50	UYQ	0.22	0.50	0.62	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Chloroform	0.075	U	0.020	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Chloromethane	0.17		0.028	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
cis-1,2-Dichloroethene	0.075	U	0.027	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
cis-1,3-Dichloropropene	0.075	U	0.018	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Dichlorodifluoromethane [Freon-12]	0.075	U	0.024	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Ethylbenzene	0.075	U	0.026	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Methylene chloride	0.073	J	0.054	0.075	0.25	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Styrene	0.075	UQ	0.020	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Tetrachloroethene	0.075	U	0.029	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Toluene	0.075	U	0.026	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
trans-1,2-Dichloroethene	0.075	U	0.020	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
trans-1,3-Dichloropropene	0.075	U	0.025	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Trichloroethene	0.075	U	0.048	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Trichlorofluoromethane [Freon-11]	0.075	U	0.025	0.075	0.12	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Vinyl acetate	0.075	U	0.051	0.075	3.1	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Vinyl chloride	0.075	U	0.024	0.075	0.099	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Xylene (Total)	0.19	U	0.076	0.19	0.37	mg/Kg-dry	105.7	6/28/2016 5:10 PM
Surr: 4-Bromofluorobenzene	91.6			79-119		%Rec	105.7	6/28/2016 5:10 PM
Surr: Dibromofluoromethane	92.2			78-119		%Rec	105.7	6/28/2016 5:10 PM
Surr: Toluene-d8	93.7			85-116		%Rec	105.7	6/28/2016 5:10 PM

Percent Moisture **Method: ASTM-D2216** **Analyst: NS1**

Percent Moisture	15	1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 9:05:00 AM
Project:	Camp Hero		
Lab ID:	1606604-008	**Matrix:**	Soil
Client Sample ID:	TB-SO-061516-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00060	U	0.00029	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
1,1,1-Trichloroethane	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
1,1,2,2-Tetrachloroethane	0.00060	U	0.00053	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
1,1,2-Trichloroethane	0.00060	U	0.00039	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
1,1-Dichloroethane	0.00060	U	0.00015	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
1,1-Dichloroethene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
1,2,3-Trichloropropane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
1,2-Dibromo-3-chloropropane	0.0020	U	0.0014	0.0020	0.0050	mg/Kg	1	6/23/2016 3:10 PM
1,2-Dibromoethane	0.00060	U	0.00045	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
1,2-Dichloroethane	0.00060	U	0.00014	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
1,2-Dichloropropane	0.00060	U	0.00028	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
2-Butanone [MEK]	0.010	UQ	0.0059	0.010	0.020	mg/Kg	1	6/23/2016 3:10 PM
2-Hexanone	0.0020	U	0.00063	0.0020	0.0050	mg/Kg	1	6/23/2016 3:10 PM
Acetone	0.0013	JZ	0.00091	0.0020	0.010	mg/Kg	1	6/23/2016 3:10 PM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Bromodichloromethane	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Bromoform	0.00060	U	0.00033	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Carbon disulfide	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Carbon tetrachloride	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Chlorobenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Chlorodibromomethane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Chloroethane	0.0010	U	0.00076	0.0010	0.0020	mg/Kg	1	6/23/2016 3:10 PM
Chloroform	0.00060	U	0.00048	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Chloromethane	0.00060	U	0.00034	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
cis-1,2-Dichloroethene	0.00060	U	0.00056	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
cis-1,3-Dichloropropene	0.00060	UQ	0.00016	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Dichlorodifluoromethane [Freon-12]	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Methylene chloride	0.0081	BQ	0.0011	0.0020	0.0050	mg/Kg	1	6/23/2016 3:10 PM
Styrene	0.00060	UQ	0.00023	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Tetrachloroethene	0.00060	U	0.00032	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Toluene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
trans-1,2-Dichloroethene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
trans-1,3-Dichloropropene	0.00060	UQ	0.00023	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Trichloroethene	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Trichlorofluoromethane [Freon-11]	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/23/2016 3:10 PM
Vinyl acetate	0.00060	UZ	0.00047	0.00060	0.0050	mg/Kg	1	6/23/2016 3:10 PM
Vinyl chloride	0.00060	U	0.00031	0.00060	0.00080	mg/Kg	1	6/23/2016 3:10 PM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg	1	6/23/2016 3:10 PM
Surr: 4-Bromofluorobenzene	88.9			79-119		%Rec	1	6/23/2016 3:10 PM
Surr: Dibromofluoromethane	90.7			78-119		%Rec	1	6/23/2016 3:10 PM
Surr: Toluene-d8	84.0	Q		85-116		%Rec	1	6/23/2016 3:10 PM

RTI Laboratories - DATES REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606604-001C	H19-SS01-01	6/15/2016 11:45 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 2:40 PM	6/28/2016 2:40 PM
1606604-001D	H19-SS01-01	6/15/2016 11:45 AM	Soil				
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606604-001E	H19-SS01-01	6/15/2016 11:45 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/3/2016 11:09 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/28/2016 11:05 AM	8/4/2016 4:07 PM
1606604-001F	H19-SS01-01	6/15/2016 11:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:36 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:10 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:04 PM
1606604-002C	H19-SS02-01	6/15/2016 11:50 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 3:05 PM	6/28/2016 3:05 PM
1606604-002D	H19-SS02-01	6/15/2016 11:50 AM	Soil				
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606604-002E	H19-SS02-01	6/15/2016 11:50 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/1/2016 1:40 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/2/2016 1:42 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/3/2016 11:36 PM
1606604-002F	H19-SS02-01	6/15/2016 11:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:37 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:12 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:05 PM
1606604-003C	H19-SS02-01 DUP	6/15/2016 11:50 AM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 3:30 PM	6/28/2016 3:30 PM
1606604-003D	H19-SS02-01 DUP	6/15/2016 11:50 AM	Soil				
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606604-003E	H19-SS02-01 DUP	6/15/2016 11:50 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 12:03 AM
1606604-003F	H19-SS02-01 DUP	6/15/2016 11:50 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:38 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:13 PM

RTI Laboratories - DATES REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606604-003F	H19-SS02-01 DUP	6/15/2016 11:50 AM	Soil				
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:07 PM
1606604-004C	H22-SS01-01	6/15/2016 12:35 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 3:55 PM	6/28/2016 3:55 PM
1606604-004D	H22-SS01-01	6/15/2016 12:35 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	7/8/2016 12:00 AM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	8/3/2016 1:59 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 4:35 PM
1606604-004E	H22-SS01-01	6/15/2016 12:35 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 9:01 AM
1606604-004F	H22-SS01-01	6/15/2016 12:35 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:43 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:27 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:53 PM
1606604-004G	H22-SS01-01	6/15/2016 12:35 PM	Soil				
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606604-005C	H22-SS01-02	6/15/2016 12:45 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 4:20 PM	6/28/2016 4:20 PM
1606604-005D	H22-SS01-02	6/15/2016 12:45 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	8/3/2016 2:23 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 5:03 PM
1606604-005E	H22-SS01-02	6/15/2016 12:45 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 9:25 AM
1606604-005F	H22-SS01-02	6/15/2016 12:45 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:43 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:29 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:26 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:54 PM
1606604-005G	H22-SS01-02	6/15/2016 12:45 PM	Soil				
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606604-006C	H22-SS02-01	6/15/2016 1:00 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 4:45 PM	6/28/2016 4:45 PM

RTI Laboratories - DATES REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606604-006D	H22-SS02-01	6/15/2016 1:00 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	8/3/2016 2:48 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 5:32 PM
1606604-006E	H22-SS02-01	6/15/2016 1:00 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 9:49 AM
1606604-006F	H22-SS02-01	6/15/2016 1:00 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:44 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:30 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:55 PM
1606604-006G	H22-SS02-01	6/15/2016 1:00 PM	Soil				
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606604-007C	H22-SS02-02	6/15/2016 1:05 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/28/2016 5:10 PM	6/28/2016 5:10 PM
1606604-007D	H22-SS02-02	6/15/2016 1:05 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/24/2016 9:31 AM	8/3/2016 3:12 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	7/25/2016 8:05 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 6:01 PM
1606604-007E	H22-SS02-02	6/15/2016 1:05 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 10:14 AM
1606604-007F	H22-SS02-02	6/15/2016 1:05 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:45 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:31 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:56 PM
1606604-007G	H22-SS02-02	6/15/2016 1:05 PM	Soil				
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606604-008A	TB-SO-061516-02	6/15/2016 9:05 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/23/2016 3:10 PM	6/23/2016 3:10 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**MB-40244**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**PBS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1704980**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.017	0.16									U
1,2-Dichlorobenzene	0.017	0.16									U
1,3-Dichlorobenzene	0.017	0.16									U
1,4-Dichlorobenzene	0.017	0.16									U
2,4,5-Trichlorophenol	0.033	0.16									U
2,4,6-Trichlorophenol	0.033	0.16									UY
2,4-Dichlorophenol	0.083	0.16									U
2,4-Dimethyl phenol	0.083	0.16									U
2,4-Dinitrophenol	0.17	0.82									UY
2,4-Dinitrotoluene	0.017	0.16									UY
2,6-Dinitrotoluene	0.017	0.16									U
2-Chloronaphthalene	0.017	0.16									U
2-Chlorophenol	0.083	0.16									U
2-Methylphenol (o-Cresol)	0.083	0.16									U
2-Nitroaniline	0.017	0.32									UY
2-Nitrophenol	0.083	0.16									UY
3,3´-Dichlorobenzidine	0.66	0.99									U
3-Nitroaniline	0.017	0.32									UY
3/4-Methylphenol [m/p-Cresol]	0.083	0.32									U
4,6-Dinitro-2-methylphenol	0.083	0.32									UY
4-Bromophenyl phenyl ether	0.083	0.20									U
4-Chloro-3-methylphenol	0.033	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.083	0.16									U
4-Chlorophenyl phenyl ether	0.017	0.16									U
4-Nitroaniline	0.083	0.32									UY
4-Nitrophenol	0.33	0.82									UY
Benzoic acid	0.33	0.99									U
Benzyl alcohol	0.017	0.66									U
Bis(2-chloroethoxy) methane	0.017	0.16									U
Bis(2-chloroethyl) ether	0.033	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**MB-40244**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**PBS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1704980**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.017	0.16									UZ
Bis(2-ethylhexyl) phthalate	0.033	0.16									U
Butyl benzyl phthalate	0.033	0.16									U
Carbazole	0.017	0.16									U
Di-n-butyl phthalate	0.033	0.16									U
Di-n-octyl phthalate	0.017	0.16									U
Dibenzofuran	0.017	0.16									U
Diethyl phthalate	0.017	0.16									U
Dimethyl phthalate	0.017	0.16									U
Hexachlorobenzene	0.017	0.16									U
Hexachlorobutadiene	0.017	0.050									U
Hexachloroethane	0.017	0.16									U
Isophorone	0.017	0.16									U
N-Nitroso-di-n-propylamine	0.017	0.16									U
N-Nitrosodimethylamine	0.017	0.16									U
N-Nitrosodiphenylamine	0.017	0.16									U
Nitrobenzene	0.017	0.16									U
Pentachlorophenol	0.083	0.16									U
Phenol	0.083	0.16									U
Surr: 2,4,6-Tribromophenol	670		828.1		81.4	39	132				
Surr: 2-Fluorobiphenyl	720		828.1		87.4	44	115				
Surr: 2-Fluorophenol	720		828.1		86.6	35	115				
Surr: Nitrobenzene-d5	790		828.1		95.8	37	122				
Surr: Phenol-d5	750		828.1		90.5	33	122				
Surr: Terphenyl-d14	710		828.1		85.2	54	127				

Sample ID:	**LCS-40244**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**LCSS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711446**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.52	0.16	0.65	0	80.2	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**LCS-40244**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**LCSS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711446**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.50	0.16	0.65	0	76.1	33	117				
1,3-Dichlorobenzene	0.49	0.16	0.65	0	75.4	30	115				
1,4-Dichlorobenzene	0.49	0.16	0.65	0	74.5	31	115				
2,4,5-Trichlorophenol	0.60	0.16	0.65	0	91.6	41	124				
2,4,6-Trichlorophenol	0.63	0.16	0.65	0	96.5	39	126				Y
2,4-Dichlorophenol	0.60	0.16	0.65	0	91.9	40	122				
2,4-Dimethyl phenol	0.54	0.16	0.65	0	82.9	30	127				
2,4-Dinitrophenol	1.7	0.81	1.6	0	103	50	130				JY
2,4-Dinitrotoluene	0.65	0.16	0.65	0	99.2	48	126				Y
2,6-Dinitrotoluene	0.58	0.16	0.65	0	88.6	46	124				
2-Chloronaphthalene	0.52	0.16	0.65	0	79.6	41	114				
2-Chlorophenol	0.52	0.16	0.65	0	80.3	34	121				
2-Methylphenol (o-Cresol)	0.55	0.16	0.65	0	84.4	32	122				
2-Nitroaniline	0.64	0.31	0.65	0	98.5	44	127				Y
2-Nitrophenol	0.61	0.16	0.65	0	93.9	36	123				Y
3,3´-Dichlorobenzidine	0.56	0.98	0.65	0	85.6	22	121				J
3-Nitroaniline	0.62	0.31	0.65	0	95.6	33	119				Y
3/4-Methylphenol [m/p-Cresol]	1.1	0.31	1.3	0	87.7	34	119				
4,6-Dinitro-2-methylphenol	0.72	0.31	0.65	0	110	29	132				Y
4-Bromophenyl phenyl ether	0.54	0.20	0.65	0	82.9	46	124				
4-Chloro-3-methylphenol	0.60	0.16	0.65	0	91.1	45	122				
4-Chloroaniline [p-Chloroaniline]	0.56	0.16	0.65	0	86.4	17	106				
4-Chlorophenyl phenyl ether	0.55	0.16	0.65	0	84.0	45	121				
4-Nitroaniline	0.60	0.31	0.65	0	92.3	50	130				Y
4-Nitrophenol	1.2	0.81	1.6	0	72.1	30	132				Y
Benzoic acid	0.33	0.98	1.3	0	0	40	117				QU
Benzyl alcohol	0.51	0.65	0.65	0	77.8	29	122				J
Bis(2-chloroethoxy) methane	0.56	0.16	0.65	0	85.3	36	121				
Bis(2-chloroethyl) ether	0.50	0.16	0.65	0	76.0	31	120				
Bis(2-chloroisopropyl)ether	0.48	0.16	0.65	0	73.7	33	131				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**LCS-40244**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**LCSS**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711446**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.52	0.16	0.65	0	79.2	51	133				
Butyl benzyl phthalate	0.54	0.16	0.65	0	82.9	48	132				
Carbazole	0.55	0.16	0.65	0	84.2	50	123				
Di-n-butyl phthalate	0.51	0.16	0.65	0	77.5	51	128				
Di-n-octyl phthalate	0.56	0.16	0.65	0	85.4	45	140				
Dibenzofuran	0.54	0.16	0.65	0	82.4	44	120				
Diethyl phthalate	0.54	0.16	0.65	0	82.0	50	124				
Dimethyl phthalate	0.52	0.16	0.65	0	79.9	48	124				
Hexachlorobenzene	0.55	0.16	0.65	0	83.7	45	122				
Hexachlorobutadiene	0.54	0.049	0.65	0	82.7	32	123				
Hexachloroethane	0.51	0.16	0.65	0	77.9	28	117				
Isophorone	0.53	0.16	0.65	0	80.6	30	122				
N-Nitroso-di-n-propylamine	0.56	0.16	0.65	0	85.1	50	130				
N-Nitrosodimethylamine	0.52	0.16	0.65	0	79.2	23	120				
N-Nitrosodiphenylamine	0.53	0.16	0.65	0	81.4	38	127				
Nitrobenzene	0.55	0.16	0.65	0	83.7	34	122				
Pentachlorophenol	0.33	0.16	0.65	0	50.0	25	133				
Phenol	0.60	0.16	0.65	0	91.7	34	121				
Surr: 2,4,6-Tribromophenol	720		816.5		88.7	39	132				
Surr: 2-Fluorobiphenyl	710		816.5		86.7	44	115				
Surr: 2-Fluorophenol	720		816.5		88.7	35	115				
Surr: Nitrobenzene-d5	810		816.5		98.7	37	122				
Surr: Phenol-d5	740		816.5		90.8	33	122				
Surr: Terphenyl-d14	720		816.5		88.6	54	127				

Sample ID:	**1606601-008AMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**ZZZZZZ**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711447**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.54	0.20	0.82	0	65.6	34	118				
1,2-Dichlorobenzene	0.51	0.20	0.82	0	61.8	33	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**1606601-008AMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**ZZZZZZ**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711447**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	0.50	0.20	0.82	0	61.6	30	115				
1,4-Dichlorobenzene	0.49	0.20	0.82	0	60.2	31	115				
2,4,5-Trichlorophenol	0.69	0.20	0.82	0	84.7	41	124				
2,4,6-Trichlorophenol	0.72	0.20	0.82	0	88.4	39	126				Y
2,4-Dichlorophenol	0.64	0.20	0.82	0	78.6	40	122				
2,4-Dimethyl phenol	0.49	0.20	0.82	0	60.3	30	127				
2,4-Dinitrophenol	2.2	1.0	2.0	0	107	50	130				JY
2,4-Dinitrotoluene	0.71	0.20	0.82	0	86.1	48	126				Y
2,6-Dinitrotoluene	0.62	0.20	0.82	0	75.8	46	124				
2-Chloronaphthalene	0.56	0.20	0.82	0	67.9	41	114				
2-Chlorophenol	0.55	0.20	0.82	0	66.8	34	121				
2-Methylphenol (o-Cresol)	0.56	0.20	0.82	0	67.8	32	122				
2-Nitroaniline	0.70	0.39	0.82	0	85.2	44	127				Y
2-Nitrophenol	0.67	0.20	0.82	0	82.1	36	123				Y
3,3´-Dichlorobenzidine	0.82	1.2	0.82	0	0	22	121				QU
3-Nitroaniline	0.34	0.39	0.82	0	41.2	33	119				JY
3/4-Methylphenol [m/p-Cresol]	1.2	0.39	1.6	0	72.0	42	126				
4,6-Dinitro-2-methylphenol	0.91	0.39	0.82	0	112	29	132				Y
4-Bromophenyl phenyl ether	0.58	0.25	0.82	0	71.2	46	124				
4-Chloro-3-methylphenol	0.64	0.20	0.82	0	78.2	45	122				
4-Chloroaniline [p-Chloroaniline]	0.21	0.20	0.82	0	25.1	17	106				
4-Chlorophenyl phenyl ether	0.61	0.20	0.82	0	74.0	45	121				
4-Nitroaniline	0.33	0.39	0.82	0	40.4	50	130				JQY
4-Nitrophenol	1.6	1.0	2.0	0	77.3	30	132				Y
Benzoic acid	1.9	1.2	1.6	0	117	40	117				Q
Benzyl alcohol	0.53	0.81	0.82	0	64.8	29	122				J
Bis(2-chloroethoxy) methane	0.57	0.20	0.82	0	70.1	36	121				
Bis(2-chloroethyl) ether	0.52	0.20	0.82	0	63.3	31	120				
Bis(2-chloroisopropyl)ether	0.50	0.20	0.82	0	61.6	33	131				Z
Bis(2-ethylhexyl) phthalate	0.61	0.20	0.82	0	75.0	51	133				

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40244

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	ZZZZZZ	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711447

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	0.61	0.20	0.82	0	74.4	48	132				
Carbazole	0.61	0.20	0.82	0	74.5	50	123				
Di-n-butyl phthalate	0.56	0.20	0.82	0	68.4	51	128				
Di-n-octyl phthalate	0.65	0.20	0.82	0	79.5	45	140				
Dibenzofuran	0.59	0.20	0.82	0	71.7	44	120				
Diethyl phthalate	0.58	0.20	0.82	0	70.9	50	124				
Dimethyl phthalate	0.56	0.20	0.82	0	68.8	48	124				
Hexachlorobenzene	0.58	0.20	0.82	0	71.0	45	122				
Hexachlorobutadiene	0.57	0.061	0.82	0	70.1	32	123				
Hexachloroethane	0.50	0.20	0.82	0	60.7	28	117				
Isophorone	0.55	0.20	0.82	0	67.6	30	122				
N-Nitroso-di-n-propylamine	0.59	0.20	0.82	0	72.2	50	130				
N-Nitrosodimethylamine	0.52	0.20	0.82	0	63.8	23	120				
N-Nitrosodiphenylamine	0.56	0.20	0.82	0	68.6	38	127				
Nitrobenzene	0.57	0.20	0.82	0	69.1	34	122				
Pentachlorophenol	0.68	0.20	0.82	0	83.3	25	133				
Phenol	0.59	0.20	0.82	0	72.0	34	121				
Surr: 2,4,6-Tribromophenol	850		1,023		83.2	39	132				
Surr: 2-Fluorobiphenyl	740		1,023		72.3	44	115				
Surr: 2-Fluorophenol	710		1,023		69.2	35	115				
Surr: Nitrobenzene-d5	800		1,023		78.1	37	122				
Surr: Phenol-d5	730		1,023		71.6	33	122				
Surr: Terphenyl-d14	760		1,023		74.2	54	127				

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/24/2016	RunNo:	87747
Client ID:	ZZZZZZ	Batch ID:	40244	TestNo:	SW8270C	SW3546		Analysis Date:	7/8/2016	SeqNo:	1711448

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.34	0.20	0.81	0	42.1	34	118	0.54	44.2	25	R
1,2-Dichlorobenzene	0.32	0.20	0.81	0	39.3	33	117	0.51	45.0	25	R
1,3-Dichlorobenzene	0.31	0.20	0.81	0	38.3	30	115	0.50	47.1	25	R

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID: **1606601-008AMSD** Samp Type: **MSD** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/24/2016** RunNo: **87747**

Client ID: **ZZZZZZ** Batch ID: **40244** TestNo: **SW8270C** **SW3546** Analysis Date: **7/8/2016** SeqNo: **1711448**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.31	0.20	0.81	0	38.3	31	115	0.49	45.1	25	R
2,4,5-Trichlorophenol	0.42	0.20	0.81	0	51.4	41	124	0.69	49.5	25	R
2,4,6-Trichlorophenol	0.42	0.20	0.81	0	52.2	39	126	0.72	52.1	25	RY
2,4-Dichlorophenol	0.39	0.20	0.81	0	48.1	40	122	0.64	48.8	25	R
2,4-Dimethyl phenol	0.28	0.20	0.81	0	34.8	30	127	0.49	54.3	25	R
2,4-Dinitrophenol	1.4	1.0	2.0	0	70.6	50	130	2.2	41.9	25	RY
2,4-Dinitrotoluene	0.41	0.20	0.81	0	50.5	48	126	0.71	52.7	25	RY
2,6-Dinitrotoluene	0.36	0.20	0.81	0	44.4	46	124	0.62	52.9	25	RQ
2-Chloronaphthalene	0.34	0.20	0.81	0	42.0	41	114	0.56	47.6	25	R
2-Chlorophenol	0.33	0.20	0.81	0	40.6	34	121	0.55	49.5	25	R
2-Methylphenol (o-Cresol)	0.34	0.20	0.81	0	41.4	32	122	0.56	49.0	25	R
2-Nitroaniline	0.41	0.39	0.81	0	50.2	44	127	0.70	52.2	25	RY
2-Nitrophenol	0.42	0.20	0.81	0	51.9	36	123	0.67	45.7	25	RY
3,3´-Dichlorobenzidine	0.81	1.2	0.81	0	0	22	121	0	0	25	QU
3-Nitroaniline	0.24	0.39	0.81	0	29.6	33	119	0.34	33.3	25	JRQY
3/4-Methylphenol [m/p-Cresol]	0.68	0.39	1.6	0	41.6	42	126	1.2	54.2	25	RQ
4,6-Dinitro-2-methylphenol	0.54	0.39	0.81	0	66.4	29	132	0.91	51.4	25	RY
4-Bromophenyl phenyl ether	0.36	0.24	0.81	0	44.5	46	124	0.58	46.7	25	RQ
4-Chloro-3-methylphenol	0.38	0.20	0.81	0	47.3	45	122	0.64	49.8	25	R
4-Chloroaniline [p-Chloroaniline]	0.15	0.20	0.81	0	18.5	17	106	0.21	30.6	25	JR
4-Chlorophenyl phenyl ether	0.36	0.20	0.81	0	44.7	45	121	0.61	49.9	25	RQ
4-Nitroaniline	0.25	0.39	0.81	0	30.5	50	130	0.33	28.5	25	JRQY
4-Nitrophenol	0.96	1.0	2.0	0	47.4	30	132	1.6	48.5	25	JRY
Benzoic acid	1.1	1.2	1.6	0	66.8	40	117	1.9	55.4	25	JR
Benzyl alcohol	0.32	0.81	0.81	0	38.8	29	122	0.53	50.9	25	JR
Bis(2-chloroethoxy) methane	0.36	0.20	0.81	0	44.7	36	121	0.57	44.8	25	R
Bis(2-chloroethyl) ether	0.32	0.20	0.81	0	39.7	31	120	0.52	46.4	25	R
Bis(2-chloroisopropyl)ether	0.31	0.20	0.81	0	38.2	33	131	0.50	47.6	25	RZ
Bis(2-ethylhexyl) phthalate	0.36	0.20	0.81	0	44.2	51	133	0.61	52.2	25	RQ
Butyl benzyl phthalate	0.35	0.20	0.81	0	43.5	48	132	0.61	53.1	25	RQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40244**

Sample ID:	**1606601-008AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/24/2016**	RunNo:	**87747**
Client ID:	**ZZZZZZ**	Batch ID:	**40244**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/8/2016**	SeqNo:	**1711448**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	0.38	0.20	0.81	0	46.9	50	123	0.61	46.1	25	RQ
Di-n-butyl phthalate	0.35	0.20	0.81	0	42.4	51	128	0.56	47.5	25	RQ
Di-n-octyl phthalate	0.39	0.20	0.81	0	47.4	45	140	0.65	51.2	25	R
Dibenzofuran	0.36	0.20	0.81	0	44.2	44	120	0.59	47.9	25	R
Diethyl phthalate	0.35	0.20	0.81	0	43.1	50	124	0.58	49.3	25	RQ
Dimethyl phthalate	0.34	0.20	0.81	0	42.0	48	124	0.56	49.0	25	RQ
Hexachlorobenzene	0.36	0.20	0.81	0	44.3	45	122	0.58	46.8	25	RQ
Hexachlorobutadiene	0.36	0.061	0.81	0	43.6	32	123	0.57	47.2	25	R
Hexachloroethane	0.30	0.20	0.81	0	36.6	28	117	0.50	50.1	25	R
Isophorone	0.34	0.20	0.81	0	42.1	30	122	0.55	47.0	25	R
N-Nitroso-di-n-propylamine	0.34	0.20	0.81	0	42.1	50	130	0.59	53.3	25	RQ
N-Nitrosodimethylamine	0.34	0.20	0.81	0	41.4	23	120	0.52	43.3	25	R
N-Nitrosodiphenylamine	0.35	0.20	0.81	0	43.2	38	127	0.56	45.9	25	R
Nitrobenzene	0.36	0.20	0.81	0	44.3	34	122	0.57	44.2	25	R
Pentachlorophenol	0.36	0.20	0.81	0	44.2	25	133	0.68	62.0	25	R
Phenol	0.36	0.20	0.81	0	44.1	34	121	0.59	48.5	25	R
Surr: 2,4,6-Tribromophenol	500		1,017		49.6	39	132		0	25	
Surr: 2-Fluorobiphenyl	470		1,017		46.3	44	115		0	25	
Surr: 2-Fluorophenol	440		1,017		43.1	35	115		0	25	
Surr: Nitrobenzene-d5	500		1,017		49.0	37	122		0	25	
Surr: Phenol-d5	450		1,017		44.4	33	122		0	25	
Surr: Terphenyl-d14	460		1,017		45.2	54	127		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	**LCS-40258**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**%Rec**	Prep Date:	**6/26/2016**	RunNo:	**87786**
Client ID:	**LCSS**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/1/2016**	SeqNo:	**1706011**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	20		16.26		124	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		145	44	125				Q
Surr: Terphenyl-d14	22		16.26		134	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	MB-40280	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	PBS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706006

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00065	0.00065									U
2-Methylnaphthalene	0.00065	0.00065									U
Acenaphthene	0.00065	0.00065									U
Acenaphthylene	0.00065	0.00065									U
Anthracene	0.00065	0.00065									U
Benzo(a)anthracene	0.00065	0.00065									U
Benzo(a)pyrene	0.00065	0.00065									U
Benzo(b)fluoranthene	0.00065	0.00065									U
Benzo(g,h,i)perylene	0.00065	0.00065									U
Benzo(k)fluoranthene	0.00065	0.00065									U
Chrysene	0.00065	0.00065									U
Dibenzo(a,h)anthracene	0.00065	0.00065									U
Fluoranthene	0.00065	0.00065									U
Fluorene	0.00065	0.00065									U
Indeno(1,2,3-cd)pyrene	0.00065	0.00065									U
Naphthalene	0.00065	0.00065									U
Phenanthrene	0.00065	0.00065									U
Pyrene	0.00065	0.00065									U
Surr: 2-Fluorobiphenyl	19		16.27		116	46	115				Q
Surr: Nitrobenzene-d5	21		16.27		126	44	125				Q
Surr: Terphenyl-d14	21		16.27		128	58	133				

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.015	0.00067	0.013	0	115	43	111				Q
2-Methylnaphthalene	0.014	0.00067	0.013	0	104	39	114				
Acenaphthene	0.014	0.00067	0.013	0	107	44	111				
Acenaphthylene	0.014	0.00067	0.013	0	105	39	116				
Anthracene	0.014	0.00067	0.013	0	108	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.015	0.00067	0.013	0	114	54	122				
Benzo(a)pyrene	0.014	0.00067	0.013	0	103	50	125				
Benzo(b)fluoranthene	0.016	0.00067	0.013	0	122	53	128				
Benzo(g,h,i)perylene	0.014	0.00067	0.013	0	107	49	127				
Benzo(k)fluoranthene	0.014	0.00067	0.013	0	107	56	123				
Chrysene	0.015	0.00067	0.013	0	110	57	118				
Dibenzo(a,h)anthracene	0.014	0.00067	0.013	0	108	50	129				
Fluoranthene	0.015	0.00067	0.013	0	113	55	119				
Fluorene	0.014	0.00067	0.013	0	104	47	114				
Indeno(1,2,3-cd)pyrene	0.014	0.00067	0.013	0	107	49	130				
Naphthalene	0.014	0.00067	0.013	0	103	38	111				
Phenanthrene	0.014	0.00067	0.013	0	103	49	113				
Pyrene	0.015	0.00067	0.013	0	111	55	117				
Surr: 2-Fluorobiphenyl	21		16.66		125	46	115				Q
Surr: Nitrobenzene-d5	23		16.66		140	44	125				Q
Surr: Terphenyl-d14	22		16.66		133	58	133				Q

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.019	0.00079	0.016	0.0010	115	43	111				Q
2-Methylnaphthalene	0.018	0.00079	0.016	0.0019	103	39	114				
Acenaphthene	0.017	0.00079	0.016	0.0012	101	44	111				
Acenaphthylene	0.018	0.00079	0.016	0.00090	107	39	116				
Anthracene	0.019	0.00079	0.016	0.0024	106	50	114				
Benzo(a)anthracene	0.027	0.00079	0.016	0.014	83.7	54	122				
Benzo(a)pyrene	0.024	0.00079	0.016	0.013	70.8	50	125				
Benzo(b)fluoranthene	0.040	0.00079	0.016	0.023	108	53	128				J
Benzo(g,h,i)perylene	0.012	0.00079	0.016	0	74.6	49	127				
Benzo(k)fluoranthene	0.018	0.00079	0.016	0.0053	80.4	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.027	0.00079	0.016	0.014	83.1	57	118				
Dibenzo(a,h)anthracene	0.011	0.00079	0.016	0	69.2	50	129				
Fluoranthene	0.036	0.00079	0.016	0.028	52.5	55	119				Q
Fluorene	0.017	0.00079	0.016	0.0013	99.8	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00079	0.016	0.0053	41.0	49	130				Q
Naphthalene	0.017	0.00079	0.016	0.0014	101	38	111				
Phenanthrene	0.027	0.00079	0.016	0.015	76.3	49	113				
Pyrene	0.033	0.00079	0.016	0.023	64.8	55	117				
Surr: 2-Fluorobiphenyl	23		19.72		119	46	115				Q
Surr: Nitrobenzene-d5	28		19.72		142	44	125				Q
Surr: Terphenyl-d14	28		19.72		144	58	133				Q

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706920

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.019	0.00078	0.016	0.0010	117	43	111	0.019	0.248	25	Q
2-Methylnaphthalene	0.018	0.00078	0.016	0.0019	102	39	114	0.018	2.87	25	
Acenaphthene	0.018	0.00078	0.016	0.0012	108	44	111	0.017	4.58	25	
Acenaphthylene	0.018	0.00078	0.016	0.00090	111	39	116	0.018	2.02	25	
Anthracene	0.021	0.00078	0.016	0.0024	121	50	114	0.019	10.1	25	Q
Benzo(a)anthracene	0.045	0.00078	0.016	0.014	200	54	122	0.027	49.5	25	JRQ
Benzo(a)pyrene	0.034	0.00078	0.016	0.013	141	50	125	0.024	36.8	25	RQ
Benzo(b)fluoranthene	0.050	0.00078	0.016	0.023	175	53	128	0.040	22.4	25	JQ
Benzo(g,h,i)perylene	0.015	0.00078	0.016	0	97.2	49	127	0.012	24.8	25	
Benzo(k)fluoranthene	0.027	0.00078	0.016	0.0053	142	56	123	0.018	41.4	25	RQ
Chrysene	0.038	0.00078	0.016	0.014	152	57	118	0.027	32.4	25	RQ
Dibenzo(a,h)anthracene	0.0013	0.00078	0.016	0	8.49	50	129	0.011	157	25	RQ
Fluoranthene	0.066	0.00078	0.016	0.028	245	55	119	0.036	58.1	25	JRQ
Fluorene	0.018	0.00078	0.016	0.0013	106	47	114	0.017	4.53	25	
Indeno(1,2,3-cd)pyrene	0.015	0.00078	0.016	0.0053	63.1	49	130	0.012	24.8	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	**1606601-008AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/28/2016**	RunNo:	**87818**
Client ID:	**ZZZZZZ**	Batch ID:	**40280**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/2/2016**	SeqNo:	**1706920**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.017	0.00078	0.016	0.0014	100	38	111	0.017	1.78	25	
Phenanthrene	0.034	0.00078	0.016	0.015	124	49	113	0.027	23.6	25	Q
Pyrene	0.059	0.00078	0.016	0.023	232	55	117	0.033	56.2	25	JRQ
Surr: 2-Fluorobiphenyl	25		19.41		129	46	115		0	25	Q
Surr: Nitrobenzene-d5	29		19.41		151	44	125		0	25	Q
Surr: Terphenyl-d14	29		19.41		150	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40290**

Sample ID:	**MB-40290**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87974**
Client ID:	**PBS**	Batch ID:	**40290**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/25/2016**	SeqNo:	**1710405**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00065	0.00065									UY
2-Methylnaphthalene	0.00065	0.00065									U
Acenaphthene	0.00065	0.00065									U
Acenaphthylene	0.00065	0.00065									U
Anthracene	0.00065	0.00065									U
Benzo(a)anthracene	0.00065	0.00065									U
Benzo(a)pyrene	0.00065	0.00065									U
Benzo(b)fluoranthene	0.00065	0.00065									UY
Benzo(g,h,i)perylene	0.00065	0.00065									U
Benzo(k)fluoranthene	0.00065	0.00065									U
Chrysene	0.00065	0.00065									U
Dibenzo(a,h)anthracene	0.00065	0.00065									U
Fluoranthene	0.00065	0.00065									U
Fluorene	0.00065	0.00065									U
Indeno(1,2,3-cd)pyrene	0.00065	0.00065									U
Naphthalene	0.00065	0.00065									U
Phenanthrene	0.00065	0.00065									U
Pyrene	0.00065	0.00065									U
Surr: 2-Fluorobiphenyl	15		16.26		94.0	46	115				
Surr: Nitrobenzene-d5	15		16.26		94.1	44	125				
Surr: Terphenyl-d14	17		16.26		107	58	133				

Sample ID:	**LCS-40290**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87974**
Client ID:	**LCSS**	Batch ID:	**40290**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/25/2016**	SeqNo:	**1710406**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.018	0.00067	0.013	0	138	43	111				QY
2-Methylnaphthalene	0.012	0.00067	0.013	0	88.8	39	114				
Acenaphthene	0.011	0.00067	0.013	0	84.9	44	111				
Acenaphthylene	0.012	0.00067	0.013	0	86.8	39	116				
Anthracene	0.011	0.00067	0.013	0	83.6	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40290**

Sample ID:	LCS-40290	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87974
Client ID:	LCSS	Batch ID:	40290	TestNo:	SW8270C	SW3550C		Analysis Date:	7/25/2016	SeqNo:	1710406

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.012	0.00067	0.013	0	87.9	54	122				
Benzo(a)pyrene	0.011	0.00067	0.013	0	80.6	50	125				
Benzo(b)fluoranthene	0.012	0.00067	0.013	0	88.4	53	128				Y
Benzo(g,h,i)perylene	0.011	0.00067	0.013	0	85.7	49	127				
Benzo(k)fluoranthene	0.012	0.00067	0.013	0	89.2	56	123				
Chrysene	0.012	0.00067	0.013	0	86.8	57	118				
Dibenzo(a,h)anthracene	0.012	0.00067	0.013	0	88.5	50	129				
Fluoranthene	0.012	0.00067	0.013	0	91.3	55	119				
Fluorene	0.011	0.00067	0.013	0	83.3	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00067	0.013	0	88.4	49	130				
Naphthalene	0.011	0.00067	0.013	0	82.8	38	111				
Phenanthrene	0.011	0.00067	0.013	0	82.3	49	113				
Pyrene	0.011	0.00067	0.013	0	84.1	55	117				
Surr: 2-Fluorobiphenyl	17		16.63		104	46	115				
Surr: Nitrobenzene-d5	18		16.63		106	44	125				
Surr: Terphenyl-d14	19		16.63		117	58	133				

Sample ID:	1606605-003AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87974
Client ID:	ZZZZZZ	Batch ID:	40290	TestNo:	SW8270C	SW3550C		Analysis Date:	7/25/2016	SeqNo:	1710413

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.0024	0.016	0	129	43	111				QY
2-Methylnaphthalene	0.012	0.0024	0.016	0	73.6	39	114				
Acenaphthene	0.011	0.0024	0.016	0	70.0	44	111				
Acenaphthylene	0.011	0.0024	0.016	0	71.4	39	116				
Anthracene	0.011	0.0024	0.016	0	67.2	50	114				
Benzo(a)anthracene	0.012	0.0024	0.016	0	73.9	54	122				
Benzo(a)pyrene	0.011	0.0024	0.016	0	67.7	50	125				
Benzo(b)fluoranthene	0.011	0.0024	0.016	0	69.5	53	128				Y
Benzo(g,h,i)perylene	0.0098	0.0024	0.016	0	62.3	49	127				
Benzo(k)fluoranthene	0.011	0.0024	0.016	0	71.5	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40290**

Sample ID:	1606605-003AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87974
Client ID:	ZZZZZZ	Batch ID:	40290	TestNo:	SW8270C	SW3550C		Analysis Date:	7/25/2016	SeqNo:	1710413

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.011	0.0024	0.016	0	69.7	57	118				
Dibenzo(a,h)anthracene	0.010	0.0024	0.016	0	65.9	50	129				
Fluoranthene	0.011	0.0024	0.016	0	71.6	55	119				
Fluorene	0.010	0.0024	0.016	0	66.2	47	114				
Indeno(1,2,3-cd)pyrene	0.010	0.0024	0.016	0	66.0	49	130				
Naphthalene	0.011	0.0024	0.016	0	68.5	38	111				
Phenanthrene	0.011	0.0024	0.016	0	68.4	49	113				
Pyrene	0.011	0.0024	0.016	0	71.7	55	117				
Surr: 2-Fluorobiphenyl	16		19.69		80.5	46	115				
Surr: Nitrobenzene-d5	16		19.69		83.0	44	125				
Surr: Terphenyl-d14	18		19.69		92.7	58	133				

Sample ID:	1606605-003AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87974
Client ID:	ZZZZZZ	Batch ID:	40290	TestNo:	SW8270C	SW3550C		Analysis Date:	7/25/2016	SeqNo:	1710414

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.034	0.0024	0.016	0	216	43	111	0.020	50.5	25	RQY
2-Methylnaphthalene	0.013	0.0024	0.016	0	81.4	39	114	0.012	10.3	25	
Acenaphthene	0.011	0.0024	0.016	0	72.1	44	111	0.011	3.19	25	
Acenaphthylene	0.012	0.0024	0.016	0	75.9	39	116	0.011	6.38	25	
Anthracene	0.012	0.0024	0.016	0	73.2	50	114	0.011	8.78	25	
Benzo(a)anthracene	0.012	0.0024	0.016	0	78.6	54	122	0.012	6.37	25	
Benzo(a)pyrene	0.010	0.0024	0.016	0	65.2	50	125	0.011	3.42	25	
Benzo(b)fluoranthene	0.012	0.0024	0.016	0	73.7	53	128	0.011	6.03	25	Y
Benzo(g,h,i)perylene	0.010	0.0024	0.016	0	63.8	49	127	0.0098	2.64	25	
Benzo(k)fluoranthene	0.012	0.0024	0.016	0	75.0	56	123	0.011	5.06	25	
Chrysene	0.012	0.0024	0.016	0	73.7	57	118	0.011	5.91	25	
Dibenzo(a,h)anthracene	0.011	0.0024	0.016	0	68.9	50	129	0.010	4.70	25	
Fluoranthene	0.012	0.0024	0.016	0	74.7	55	119	0.011	4.54	25	
Fluorene	0.011	0.0024	0.016	0	67.3	47	114	0.010	1.93	25	
Indeno(1,2,3-cd)pyrene	0.011	0.0024	0.016	0	68.6	49	130	0.010	4.12	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40290**

Sample ID:	**1606605-003AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/29/2016**	RunNo:	**87974**
Client ID:	**ZZZZZZ**	Batch ID:	**40290**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/25/2016**	SeqNo:	**1710414**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.011	0.0024	0.016	0	72.1	38	111	0.011	5.49	25	
Phenanthrene	0.011	0.0024	0.016	0	69.1	49	113	0.011	1.19	25	
Pyrene	0.012	0.0024	0.016	0	76.7	55	117	0.011	7.08	25	
Surr: 2-Fluorobiphenyl	17		19.75		86.3	46	115		0	25	
Surr: Nitrobenzene-d5	18		19.75		91.2	44	125		0	25	
Surr: Terphenyl-d14	20		19.75		101	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40376**

Sample ID:	MB-40376	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	PBS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698120

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	2.0	5.0									U
Antimony	0.50	1.0									U
Arsenic	1.0	2.0									U
Barium	5.0	10									U
Beryllium	0.050	0.25									U
Cadmium	0.050	0.25									U
Calcium	10	50									U
Chromium	0.40	0.50									U
Cobalt	0.25	1.0									U
Copper	1.0	5.0									U
Iron	5.0	15									U
Lead	1.0	5.0									U
Magnesium	5.0	50									U
Manganese	0.25	1.0									U
Nickel	1.0	5.0									U
Potassium	10	20									U
Selenium	1.5	2.0									U
Silver	0.25	1.0									U
Sodium	5.0	50									U
Vanadium	1.0	2.5									U
Zinc	0.50	5.0									U

Sample ID:	LCS-40376	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	LCSS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698121

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	111	74	119				
Antimony	24	1.0	25	0	96.1	79	114				
Arsenic	22	2.0	25	0	89.4	82	111				
Barium	25	10	25	0	101	83	113				
Beryllium	25	0.25	25	0	99.4	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40376

Sample ID:	LCS-40376	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	LCSS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698121

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	90.1	82	113				
Calcium	230	50	250	0	91.9	81	116				
Chromium	25	0.50	25	0	98.1	85	113				
Cobalt	24	1.0	25	0	96.2	85	112				
Copper	25	5.0	25	0	99.4	81	117				
Iron	240	15	250	0	94.9	81	118				
Lead	24	5.0	25	0	95.4	81	112				
Magnesium	240	50	250	0	96.2	78	115				
Manganese	25	1.0	25	0	101	84	114				
Nickel	23	5.0	25	0	93.8	83	113				
Potassium	240	20	250	0	95.6	81	116				
Selenium	23	2.0	25	0	93.3	78	111				
Silver	23	1.0	25	0	90.3	82	112				
Sodium	250	50	250	0	98.0	83	118				
Vanadium	24	2.5	25	0	95.9	82	114				
Zinc	24	5.0	25	0	94.5	82	113				

Sample ID:	1606606-002BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	ZZZZZZ	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698123

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,100	3.5	18	7,300	4,700	74	119				Q
Antimony	19	0.70	18	2.9	90.2	79	114				
Arsenic	17	1.4	18	1.7	87.1	82	111				
Barium	56	7.0	18	38	102	83	113				
Beryllium	17	0.18	18	0.072	94.8	83	113				
Cadmium	16	0.18	18	0	90.9	82	113				
Calcium	810	35	180	620	104	81	116				
Chromium	31	0.35	18	14	96.6	85	113				
Cobalt	18	0.70	18	3.0	87.2	85	112				
Copper	47	3.5	18	29	99.1	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40376

Sample ID:	1606606-002BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	ZZZZZZ	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698123

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,800	11	180	9,700	55.7	81	118				JQ
Lead	18	3.5	18	2.6	89.8	81	112				
Magnesium	2,400	35	180	2,200	113	78	115				J
Manganese	180	0.70	18	170	50.8	84	114				Q
Nickel	23	3.5	18	6.8	90.5	83	113				
Potassium	1,700	14	180	1,500	135	81	116				Q
Selenium	13	1.4	18	0	73.0	78	111				Q
Silver	16	0.70	18	0	90.1	82	112				
Sodium	280	35	180	110	99.2	83	118				
Vanadium	34	1.8	18	18	89.3	82	114				
Zinc	31	3.5	18	17	78.5	82	113				Q

Sample ID:	1606606-002BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	ZZZZZZ	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698124

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,500	3.5	18	7,300	1,420	74	119	8,100	7.34	20	Q
Antimony	19	0.71	18	2.9	90.6	79	114	19	0.932	20	
Arsenic	18	1.4	18	1.7	90.6	82	111	17	4.13	20	
Barium	53	7.1	18	38	87.3	83	113	56	4.70	20	
Beryllium	18	0.18	18	0.072	98.8	83	113	17	4.73	20	
Cadmium	16	0.18	18	0	91.2	82	113	16	1.05	20	
Calcium	790	35	180	620	95.5	81	116	810	1.65	20	
Chromium	30	0.35	18	14	90.6	85	113	31	3.11	20	
Cobalt	19	0.71	18	3.0	87.6	85	112	18	0.831	20	
Copper	46	3.5	18	29	92.2	81	117	47	2.40	20	
Iron	9,300	11	180	9,700	-230	81	118	9,800	5.27	20	JQ
Lead	19	3.5	18	2.6	90.3	81	112	18	1.01	20	
Magnesium	2,200	35	180	2,200	36.5	78	115	2,400	5.80	20	JQ
Manganese	180	0.71	18	170	81.1	84	114	180	3.04	20	JQ
Nickel	23	3.5	18	6.8	89.9	83	113	23	0.0527	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40376

Sample ID:	1606606-002BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	ZZZZZZ	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698124

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,700	14	180	1,500	109	81	116	1,700	2.59	20	
Selenium	14	1.4	18	0	80.9	78	111	13	10.9	20	
Silver	16	0.71	18	0	90.9	82	112	16	1.46	20	
Sodium	290	35	180	110	106	83	118	280	4.30	20	
Vanadium	33	1.8	18	18	86.4	82	114	34	1.26	20	
Zinc	31	3.5	18	17	76.0	82	113	31	1.14	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40379

Sample ID:	MB-40379	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	PBS	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694102

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.050	0.20									U

Sample ID:	1606606-002BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	ZZZZZZ	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.0	0.14	7.1	0.16	97.0	83	118				

Sample ID:	1606606-002BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	ZZZZZZ	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694109

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.6	0.14	7.0	0.16	106	83	118	7.0	7.60	20	

Sample ID:	LCS-40379	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	LCSS	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694110

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	10	0.20	10	0	105	83	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40483

Sample ID:	1606601-008BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	ZZZZZZ	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699789

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.039	0.20	0	66.7	46	129				
Aroclor 1260	0.16	0.039	0.20	0	83.0	45	134				
Surr: Tetrachloro-m-xylene	6.3		9.865		64.2	44	130				
Surr: Decachlorobiphenyl	7.9		9.865		80.5	40	135				

Sample ID:	1606601-008BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	ZZZZZZ	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699790

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.039	0.20	0	75.5	46	129	0.13	11.2	25	
Aroclor 1260	0.18	0.039	0.20	0	93.9	45	134	0.16	11.2	25	
Surr: Tetrachloro-m-xylene	7.0		9.755		71.9	44	130		0	25	
Surr: Decachlorobiphenyl	8.7		9.755		89.7	40	135		0	25	

Sample ID:	LCS-40483	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	LCSS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699817

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.19	0.033	0.16	0	113	46	129				
Aroclor 1260	0.20	0.033	0.16	0	121	45	134				
Surr: Tetrachloro-m-xylene	8.6		8.234		105	44	130				
Surr: Decachlorobiphenyl	9.7		8.234		118	40	135				

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.0066	0.033									U
Aroclor 1221	0.0066	0.033									U
Aroclor 1232	0.0066	0.033									U
Aroclor 1242	0.0066	0.033									U
Aroclor 1248	0.0066	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40483

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.0066	0.033									U
Aroclor 1260	0.0066	0.033									U
Aroclor 1262	0.0066	0.033									U
Aroclor 1268	0.0066	0.033									U
Surr: Tetrachloro-m-xylene	7.5		8.297		90.5	44	130				
Surr: Decachlorobiphenyl	8.3		8.297		99.9	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86936

Sample ID:	VOA10 LCS 062316	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	86936
Client ID:	LCSS	Batch ID:	R86936	TestNo:	SW8260B			Analysis Date:	6/23/2016	SeqNo:	1686684

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0093	0.0010	0.010	0	93.4	78	125				
1,1,1-Trichloroethane	0.0086	0.0010	0.010	0	85.9	73	130				
1,1,2,2-Tetrachloroethane	0.0093	0.0010	0.010	0	93.2	70	124				
1,1,2-Trichloroethane	0.0098	0.0010	0.010	0	98.4	78	121				
1,1-Dichloroethane	0.0094	0.0010	0.010	0	93.7	76	125				
1,1-Dichloroethene	0.0091	0.0010	0.010	0	90.9	70	131				
1,2,3-Trichloropropane	0.0094	0.0010	0.010	0	93.7	73	125				
1,2-Dibromo-3-chloropropane	0.011	0.0050	0.010	0	111	61	132				
1,2-Dibromoethane	0.0099	0.0010	0.010	0	98.6	78	122				
1,2-Dichloroethane	0.0098	0.0010	0.010	0	97.6	73	128				
1,2-Dichloropropane	0.0095	0.0010	0.010	0	95.0	76	123				
2-Butanone [MEK]	0.011	0.020	0.010	0	111	51	148				J
2-Hexanone	0.0075	0.0050	0.010	0	75.2	53	145				
Acetone	0.0054	0.010	0.010	0	54.3	36	164				JZ
Benzene	0.0092	0.0010	0.010	0	92.1	77	121				
Bromodichloromethane	0.0095	0.0010	0.010	0	95.1	75	127				
Bromoform	0.0072	0.0010	0.010	0	71.6	67	132				
Carbon disulfide	0.0094	0.0010	0.010	0	93.8	63	132				
Carbon tetrachloride	0.0090	0.0010	0.010	0	90.4	70	135				
Chlorobenzene	0.0091	0.0010	0.010	0	91.3	79	120				
Chlorodibromomethane	0.0076	0.0010	0.010	0	76.3	74	126				
Chloroethane	0.0096	0.0020	0.010	0	96.2	59	139				
Chloroform	0.0090	0.0010	0.010	0	90.0	78	123				
Chloromethane	0.010	0.0010	0.010	0	104	50	136				
cis-1,2-Dichloroethene	0.0090	0.0010	0.010	0	90.4	77	123				
cis-1,3-Dichloropropene	0.0074	0.0010	0.010	0	73.9	74	126				Q
Dichlorodifluoromethane [Freon-12]	0.012	0.0010	0.010	0	116	29	149				
Ethylbenzene	0.0086	0.0010	0.010	0	86.4	76	122				
Methylene chloride	0.013	0.0050	0.010	0	130	70	128				QB
Styrene	0.0073	0.0010	0.010	0	73.1	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86936

Sample ID:	VOA10 LCS 062316	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	86936
Client ID:	LCSS	Batch ID:	R86936	TestNo:	SW8260B			Analysis Date:	6/23/2016	SeqNo:	1686684

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0088	0.0010	0.010	0	88.2	73	128				
Toluene	0.0085	0.0010	0.010	0	84.5	77	121				
trans-1,2-Dichloroethene	0.0096	0.0010	0.010	0	95.5	74	125				
trans-1,3-Dichloropropene	0.0074	0.0010	0.010	0	73.9	71	130				
Trichloroethene	0.0092	0.0010	0.010	0	92.0	77	123				
Trichlorofluoromethane [Freon-11]	0.0080	0.0010	0.010	0	80.1	62	140				
Vinyl acetate	0.011	0.0050	0.010	0	115	50	151				Z
Vinyl chloride	0.010	0.00080	0.010	0	102	56	135				
Xylene (Total)	0.024	0.0030	0.030	0	81.5	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.3	79	119				
Surr: Dibromofluoromethane	56		60.00		92.5	78	119				
Surr: Toluene-d8	55		60.00		91.9	85	116				

Sample ID:	VOA10 LCSD 06231	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	86936
Client ID:	LCSS02	Batch ID:	R86936	TestNo:	SW8260B			Analysis Date:	6/23/2016	SeqNo:	1686685

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0093	0.0010	0.010	0	93.0	78	125	0.0093	0.429	25	
1,1,1-Trichloroethane	0.0086	0.0010	0.010	0	85.8	73	130	0.0086	0.116	25	
1,1,2,2-Tetrachloroethane	0.0094	0.0010	0.010	0	94.1	70	124	0.0093	0.961	25	
1,1,2-Trichloroethane	0.0093	0.0010	0.010	0	92.8	78	121	0.0098	5.86	25	
1,1-Dichloroethane	0.0093	0.0010	0.010	0	92.6	76	125	0.0094	1.18	25	
1,1-Dichloroethene	0.0087	0.0010	0.010	0	87.4	70	131	0.0091	3.93	25	
1,2,3-Trichloropropane	0.010	0.0010	0.010	0	104	73	125	0.0094	10.0	25	
1,2-Dibromo-3-chloropropane	0.0099	0.0050	0.010	0	99.2	61	132	0.011	11.2	25	
1,2-Dibromoethane	0.0092	0.0010	0.010	0	91.7	78	122	0.0099	7.25	25	
1,2-Dichloroethane	0.0092	0.0010	0.010	0	92.2	73	128	0.0098	5.69	25	
1,2-Dichloropropane	0.0091	0.0010	0.010	0	91.2	76	123	0.0095	4.08	25	
2-Butanone [MEK]	0.010	0.020	0.010	0	0	51	148	0.011	200	25	RQU
2-Hexanone	0.0071	0.0050	0.010	0	70.6	53	145	0.0075	6.31	25	
Acetone	0.0047	0.010	0.010	0	47.2	36	164	0.0054	14.0	25	JZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86936

Sample ID:	VOA10 LCSD 06231	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	86936
Client ID:	LCSS02	Batch ID:	R86936	TestNo:	SW8260B			Analysis Date:	6/23/2016	SeqNo:	1686685

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0093	0.0010	0.010	0	92.9	77	121	0.0092	0.865	25	
Bromodichloromethane	0.0095	0.0010	0.010	0	94.9	75	127	0.0095	0.211	25	
Bromoform	0.0072	0.0010	0.010	0	71.6	67	132	0.0072	0	25	
Carbon disulfide	0.0092	0.0010	0.010	0	91.9	63	132	0.0094	2.05	25	
Carbon tetrachloride	0.0090	0.0010	0.010	0	89.7	70	135	0.0090	0.777	25	
Chlorobenzene	0.0090	0.0010	0.010	0	90.1	79	120	0.0091	1.32	25	
Chlorodibromomethane	0.0074	0.0010	0.010	0	74.4	74	126	0.0076	2.52	25	
Chloroethane	0.0095	0.0020	0.010	0	95.2	59	139	0.0096	1.04	25	
Chloroform	0.0092	0.0010	0.010	0	92.0	78	123	0.0090	2.20	25	
Chloromethane	0.010	0.0010	0.010	0	104	50	136	0.010	0.384	25	
cis-1,2-Dichloroethene	0.0087	0.0010	0.010	0	87.0	77	123	0.0090	3.83	25	
cis-1,3-Dichloropropene	0.0073	0.0010	0.010	0	73.0	74	126	0.0074	1.23	25	Q
Dichlorodifluoromethane [Freon-12]	0.012	0.0010	0.010	0	115	29	149	0.012	1.04	25	
Ethylbenzene	0.0088	0.0010	0.010	0	87.8	76	122	0.0086	1.61	25	
Methylene chloride	0.013	0.0050	0.010	0	126	70	128	0.013	3.12	25	
Styrene	0.0076	0.0010	0.010	0	76.1	76	124	0.0073	4.02	25	
Tetrachloroethene	0.0088	0.0010	0.010	0	87.6	73	128	0.0088	0.683	25	
Toluene	0.0086	0.0010	0.010	0	85.7	77	121	0.0085	1.41	25	
trans-1,2-Dichloroethene	0.0096	0.0010	0.010	0	96.3	74	125	0.0096	0.834	25	
trans-1,3-Dichloropropene	0.0071	0.0010	0.010	0	70.6	71	130	0.0074	4.57	25	Q
Trichloroethene	0.0090	0.0010	0.010	0	90.1	77	123	0.0092	2.09	25	
Trichlorofluoromethane [Freon-11]	0.0090	0.0010	0.010	0	89.9	62	140	0.0080	11.5	25	
Vinyl acetate	0.010	0.0050	0.010	0	105	50	151	0.011	9.38	25	Z
Vinyl chloride	0.010	0.00080	0.010	0	102	56	135	0.010	0.0984	25	
Xylene (Total)	0.025	0.0030	0.030	0	82.5	78	124	0.024	1.26	25	
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119		0	25	
Surr: Dibromofluoromethane	55		60.00		91.3	78	119		0	25	
Surr: Toluene-d8	55		60.00		91.1	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86936

Sample ID:	VOA10 MBLK 06231	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	86936
Client ID:	PBS	Batch ID:	R86936	TestNo:	SW8260B			Analysis Date:	6/23/2016	SeqNo:	1686687

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.00060	0.0010									U
1,1,1-Trichloroethane	0.00060	0.0010									U
1,1,2,2-Tetrachloroethane	0.00060	0.0010									U
1,1,2-Trichloroethane	0.00060	0.0010									U
1,1-Dichloroethane	0.00060	0.0010									U
1,1-Dichloroethene	0.00060	0.0010									U
1,2,3-Trichloropropane	0.00060	0.0010									U
1,2-Dibromo-3-chloropropane	0.0020	0.0050									U
1,2-Dibromoethane	0.00060	0.0010									U
1,2-Dichloroethane	0.00060	0.0010									U
1,2-Dichloropropane	0.00060	0.0010									U
2-Butanone [MEK]	0.010	0.020									U
2-Hexanone	0.0020	0.0050									U
Acetone	0.0020	0.010									UZ
Benzene	0.00060	0.0010									U
Bromodichloromethane	0.00060	0.0010									U
Bromoform	0.00060	0.0010									U
Carbon disulfide	0.00060	0.0010									U
Carbon tetrachloride	0.00060	0.0010									U
Chlorobenzene	0.00060	0.0010									U
Chlorodibromomethane	0.00060	0.0010									U
Chloroethane	0.0010	0.0020									U
Chloroform	0.00060	0.0010									U
Chloromethane	0.00060	0.0010									U
cis-1,2-Dichloroethene	0.00060	0.0010									U
cis-1,3-Dichloropropene	0.00060	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.00060	0.0010									U
Ethylbenzene	0.00060	0.0010									U
Methylene chloride	0.0045	0.0050									JT
Styrene	0.00060	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86936**

Sample ID:	**VOA10 MBLK 06231**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/23/2016**	RunNo:	**86936**
Client ID:	**PBS**	Batch ID:	**R86936**	TestNo:	**SW8260B**			Analysis Date:	**6/23/2016**	SeqNo:	**1686687**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.00060	0.0010									U
Toluene	0.00060	0.0010									U
trans-1,2-Dichloroethene	0.00060	0.0010									U
trans-1,3-Dichloropropene	0.00060	0.0010									U
Trichloroethene	0.00060	0.0010									U
Trichlorofluoromethane [Freon-11]	0.00060	0.0010									U
Vinyl acetate	0.00060	0.0050									UZ
Vinyl chloride	0.00060	0.00080									U
Xylene (Total)	0.0018	0.0030									U
Surr: 4-Bromofluorobenzene	43		50.00		85.7	79	119				
Surr: Dibromofluoromethane	42		50.00		84.8	78	119				
Surr: Toluene-d8	42		50.00		84.9	85	116				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86985**

Sample ID:	**1606603-018A DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/27/2016**	RunNo:	**86985**
Client ID:	**ZZZZZZ**	Batch ID:	**R86985**	TestNo:	**D2216**			Analysis Date:	**6/27/2016**	SeqNo:	**1687706**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	11	1.0						10.87	1.02	20	

Sample ID:	**1606605-003B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/27/2016**	RunNo:	**86985**
Client ID:	**ZZZZZZ**	Batch ID:	**R86985**	TestNo:	**D2216**			Analysis Date:	**6/27/2016**	SeqNo:	**1687718**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	17	1.0						16.62	0.276	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID: **VOA11B LCS 06281** Samp Type: **LCS** Test Code: **SW_8260S** Units: **mg/Kg** Prep Date: **6/28/2016** RunNo: **86986**

Client ID: **LCSS** Batch ID: **R86986** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687730**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.38	0.050	0.50	0	76.0	78	125				Q
1,1,1-Trichloroethane	0.46	0.050	0.50	0	91.3	73	130				
1,1,2,2-Tetrachloroethane	0.48	0.050	0.50	0	95.0	70	124				
1,1,2-Trichloroethane	0.46	0.050	0.50	0	91.2	78	121				
1,1-Dichloroethane	0.48	0.050	0.50	0	95.1	76	125				
1,1-Dichloroethene	0.47	0.050	0.50	0	94.1	70	131				
1,2,3-Trichloropropane	0.45	0.10	0.50	0	90.9	73	125				
1,2-Dibromo-3-chloropropane	0.52	0.10	0.50	0	104	61	132				Z
1,2-Dibromoethane	0.41	0.050	0.50	0	82.4	78	122				
1,2-Dichloroethane	0.46	0.050	0.50	0	91.9	73	128				
1,2-Dichloropropane	0.48	0.050	0.50	0	95.5	76	123				
2-Butanone [MEK]	0.47	0.50	0.50	0	94.9	51	148				J
2-Hexanone	0.42	0.25	0.50	0	83.5	53	145				
Acetone	0.54	0.25	0.50	0	109	36	164				
Benzene	0.48	0.050	0.50	0	96.4	77	121				
Bromodichloromethane	0.36	0.050	0.50	0	71.8	75	127				Q
Bromoform	0.49	0.050	0.50	0	98.9	67	132				
Carbon disulfide	0.40	0.10	0.50	0	80.6	63	132				
Carbon tetrachloride	0.41	0.050	0.50	0	82.4	70	135				
Chlorobenzene	0.47	0.050	0.50	0	93.4	79	120				
Chlorodibromomethane	0.50	0.050	0.50	0	101	74	126				Z
Chloroethane	0.13	0.25	0.50	0	26.2	59	139				JQY
Chloroform	0.48	0.050	0.50	0	95.9	78	123				
Chloromethane	0.57	0.050	0.50	0	113	50	136				
cis-1,2-Dichloroethene	0.48	0.050	0.50	0	96.7	77	123				
cis-1,3-Dichloropropene	0.39	0.050	0.50	0	77.9	74	126				
Dichlorodifluoromethane [Freon-12]	0.50	0.050	0.50	0	99.3	29	149				
Ethylbenzene	0.45	0.050	0.50	0	90.8	76	122				
Methylene chloride	0.53	0.10	0.50	0	106	70	128				
Styrene	0.37	0.050	0.50	0	73.4	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID:	VOA11B LCS 06281	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	86986
Client ID:	LCSS	Batch ID:	R86986	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1687730

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.46	0.050	0.50	0	92.0	73	128				
Toluene	0.45	0.050	0.50	0	90.9	77	121				
trans-1,2-Dichloroethene	0.50	0.050	0.50	0	100	74	125				
trans-1,3-Dichloropropene	0.38	0.050	0.50	0	75.4	71	130				
Trichloroethene	0.47	0.050	0.50	0	93.3	77	123				
Trichlorofluoromethane [Freon-11]	0.57	0.050	0.50	0	113	62	140				
Vinyl acetate	0.52	1.2	0.50	0	104	50	151				J
Vinyl chloride	0.45	0.040	0.50	0	90.7	56	135				
Xylene (Total)	1.4	0.15	1.5	0	91.3	78	124				
Surr: 4-Bromofluorobenzene	2,900		3,000		96.2	79	119				
Surr: Dibromofluoromethane	3,000		3,000		99.4	78	119				
Surr: Toluene-d8	2,900		3,000		95.4	85	116				

Sample ID:	VOA11B MBLK 0628	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	86986
Client ID:	PBS	Batch ID:	R86986	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1687732

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.030	0.050									U
1,1,1-Trichloroethane	0.030	0.050									U
1,1,2,2-Tetrachloroethane	0.030	0.050									U
1,1,2-Trichloroethane	0.030	0.050									U
1,1-Dichloroethane	0.030	0.050									U
1,1-Dichloroethene	0.030	0.050									U
1,2,3-Trichloropropane	0.030	0.10									U
1,2-Dibromo-3-chloropropane	0.050	0.10									UZ
1,2-Dibromoethane	0.030	0.050									U
1,2-Dichloroethane	0.030	0.050									U
1,2-Dichloropropane	0.030	0.050									U
2-Butanone [MEK]	0.25	0.50									U
2-Hexanone	0.030	0.25									U
Acetone	0.20	0.25									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID:	VOA11B MBLK 0628	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/28/2016	RunNo:	86986
Client ID:	PBS	Batch ID:	R86986	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1687732

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.030	0.050									U
Bromodichloromethane	0.030	0.050									U
Bromoform	0.030	0.050									U
Carbon disulfide	0.030	0.10									U
Carbon tetrachloride	0.030	0.050									U
Chlorobenzene	0.030	0.050									U
Chlorodibromomethane	0.030	0.050									UZ
Chloroethane	0.20	0.25									UY
Chloroform	0.030	0.050									U
Chloromethane	0.020	0.050									J
cis-1,2-Dichloroethene	0.030	0.050									U
cis-1,3-Dichloropropene	0.030	0.050									U
Dichlorodifluoromethane [Freon-12]	0.030	0.050									U
Ethylbenzene	0.030	0.050									U
Methylene chloride	0.030	0.10									U
Styrene	0.030	0.050									U
Tetrachloroethene	0.030	0.050									U
Toluene	0.030	0.050									U
trans-1,2-Dichloroethene	0.030	0.050									U
trans-1,3-Dichloropropene	0.030	0.050									U
Trichloroethene	0.030	0.050									U
Trichlorofluoromethane [Freon-11]	0.030	0.050									U
Vinyl acetate	0.030	1.2									U
Vinyl chloride	0.030	0.040									U
Xylene (Total)	0.090	0.15									U
Surr: 4-Bromofluorobenzene	2,400		2,500		94.2	79	119				
Surr: Dibromofluoromethane	2,400		2,500		97.1	78	119				
Surr: Toluene-d8	2,300		2,500		92.9	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID: **1606588-019CMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **86986**

Client ID: **ZZZZZZ** Batch ID: **R86986** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1688188**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.81	0.11	1.1	0	76.6	78	125				Q
1,1,1-Trichloroethane	0.99	0.11	1.1	0	94.3	73	130				
1,1,2,2-Tetrachloroethane	1.0	0.11	1.1	0	97.2	70	124				
1,1,2-Trichloroethane	1.0	0.11	1.1	0	95.2	78	121				
1,1-Dichloroethane	1.0	0.11	1.1	0	99.6	76	125				
1,1-Dichloroethene	1.1	0.11	1.1	0	101	70	131				
1,2,3-Trichloropropane	0.82	0.21	1.1	0	78.0	73	125				
1,2-Dibromo-3-chloropropane	0.99	0.21	1.1	0	94.3	61	132				Z
1,2-Dibromoethane	0.87	0.11	1.1	0	82.2	78	122				
1,2-Dichlorobenzene	1.0	0.11	1.1	0	98.5	78	121				
1,2-Dichloroethane	1.0	0.11	1.1	0	98.4	73	128				
1,2-Dichloropropane	1.0	0.11	1.1	0	97.2	76	123				
1,3-Dichlorobenzene	0.99	0.11	1.1	0	94.2	77	121				
2-Butanone [MEK]	1.1	1.1	1.1	0	107	51	148				
2-Hexanone	0.90	0.53	1.1	0	85.6	53	145				
2-Methylnaphthalene	0.61	0.53	1.1	0	58.1	50	150				Y
Acetone	1.3	0.53	1.1	0.11	116	36	164				
Benzene	1.1	0.11	1.1	0	101	77	121				
Bromodichloromethane	0.72	0.11	1.1	0	68.7	75	127				Q
Bromoform	1.0	0.11	1.1	0	95.1	67	132				
Carbon disulfide	0.82	0.21	1.1	0	78.1	63	132				
Carbon tetrachloride	0.87	0.11	1.1	0	82.3	70	135				
Chlorobenzene	1.0	0.11	1.1	0	94.5	79	120				
Chlorodibromomethane	0.99	0.11	1.1	0	93.6	74	126				Z
Chloroethane	0.34	0.53	1.1	0	32.6	59	139				JQY
Chloroform	1.1	0.11	1.1	0	101	78	123				
Chloromethane	1.2	0.11	1.1	0.13	104	50	136				
cis-1,2-Dichloroethene	1.0	0.11	1.1	0	94.5	77	123				
cis-1,3-Dichloropropene	0.72	0.11	1.1	0	68.2	74	126				Q
Dichlorodifluoromethane [Freon-12]	1.3	0.11	1.1	0	120	29	149				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID: **1606588-019CMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **86986**

Client ID: **ZZZZZZ** Batch ID: **R86986** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1688188**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Ethylbenzene	0.98	0.11	1.1	0	92.6	76	122				
Methylene chloride	1.1	0.21	1.1	0	108	70	128				
Naphthalene	0.83	0.53	1.1	0	78.9	62	129				
Styrene	0.75	0.11	1.1	0	70.9	76	124				Q
Tetrachloroethene	0.94	0.11	1.1	0	89.3	73	128				
Toluene	0.99	0.11	1.1	0	94.0	77	121				
trans-1,2-Dichloroethene	1.1	0.11	1.1	0	104	74	125				
trans-1,3-Dichloropropene	0.69	0.11	1.1	0	65.5	71	130				Q
Trichloroethene	0.99	0.11	1.1	0	94.0	77	123				
Trichlorofluoromethane [Freon-11]	1.4	0.11	1.1	0	133	62	140				
Vinyl acetate	1.1	2.6	1.1	0	103	50	151				J
Vinyl chloride	1.1	0.084	1.1	0	100	56	135				
Xylene (Total)	2.9	0.32	3.2	0	91.5	78	124				
Surr: 4-Bromofluorobenzene	6,100		6,323		96.6	79	119				
Surr: Dibromofluoromethane	6,400		6,323		101	78	119				
Surr: Toluene-d8	6,100		6,323		96.2	85	116				

Sample ID: **1606588-019CMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **86986**

Client ID: **ZZZZZZ** Batch ID: **R86986** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1688189**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.75	0.11	1.1	0	71.2	78	125	0.81	7.31	25	Q
1,1,1-Trichloroethane	0.98	0.11	1.1	0	92.8	73	130	0.99	1.60	25	
1,1,2,2-Tetrachloroethane	1.0	0.11	1.1	0	97.5	70	124	1.0	0.308	25	
1,1,2-Trichloroethane	0.97	0.11	1.1	0	92.1	78	121	1.0	3.31	25	
1,1-Dichloroethane	1.0	0.11	1.1	0	97.9	76	125	1.0	1.72	25	
1,1-Dichloroethene	1.0	0.11	1.1	0	96.5	70	131	1.1	4.75	25	
1,2,3-Trichloropropane	0.91	0.21	1.1	0	86.5	73	125	0.82	10.3	25	
1,2-Dibromo-3-chloropropane	0.94	0.21	1.1	0	89.4	61	132	0.99	5.33	25	Z
1,2-Dibromoethane	0.88	0.11	1.1	0	83.3	78	122	0.87	1.33	25	
1,2-Dichlorobenzene	1.0	0.11	1.1	0	97.8	78	121	1.0	0.713	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID: **1606588-019CMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/28/2016** RunNo: **86986**

Client ID: **ZZZZZZ** Batch ID: **R86986** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1688189**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichloroethane	1.0	0.11	1.1	0	98.1	73	128	1.0	0.305	25	
1,2-Dichloropropane	1.0	0.11	1.1	0	96.1	76	123	1.0	1.14	25	
1,3-Dichlorobenzene	0.98	0.11	1.1	0	92.7	77	121	0.99	1.61	25	
2-Butanone [MEK]	1.1	1.1	1.1	0	103	51	148	1.1	3.33	25	
2-Hexanone	0.92	0.53	1.1	0	86.9	53	145	0.90	1.51	25	
2-Methylnaphthalene	1.1	0.53	1.1	0	105	50	150	0.61	57.6	25	RY
Acetone	1.3	0.53	1.1	0.11	116	36	164	1.3	0.476	25	
Benzene	1.0	0.11	1.1	0	97.2	77	121	1.1	3.64	25	
Bromodichloromethane	0.74	0.11	1.1	0	70.2	75	127	0.72	2.16	25	Q
Bromoform	0.98	0.11	1.1	0	93.1	67	132	1.0	2.13	25	
Carbon disulfide	0.80	0.21	1.1	0	75.9	63	132	0.82	2.86	25	
Carbon tetrachloride	0.84	0.11	1.1	0	79.4	70	135	0.87	3.59	25	
Chlorobenzene	0.97	0.11	1.1	0	92.3	79	120	1.0	2.36	25	
Chlorodibromomethane	1.0	0.11	1.1	0	95.1	74	126	0.99	1.59	25	Z
Chloroethane	0.33	0.53	1.1	0	31.5	59	139	0.34	3.43	25	JQY
Chloroform	1.0	0.11	1.1	0	98.7	78	123	1.1	2.50	25	
Chloromethane	1.2	0.11	1.1	0.13	98.8	50	136	1.2	4.93	25	
cis-1,2-Dichloroethene	0.95	0.11	1.1	0	90.4	77	123	1.0	4.43	25	
cis-1,3-Dichloropropene	0.71	0.11	1.1	0	67.8	74	126	0.72	0.588	25	Q
Dichlorodifluoromethane [Freon-12]	1.2	0.11	1.1	0	116	29	149	1.3	3.57	25	
Ethylbenzene	0.94	0.11	1.1	0	89.4	76	122	0.98	3.52	25	
Methylene chloride	1.1	0.21	1.1	0	104	70	128	1.1	3.50	25	
Naphthalene	0.90	0.53	1.1	0	85.6	62	129	0.83	8.15	25	
Styrene	0.73	0.11	1.1	0	69.1	76	124	0.75	2.57	25	Q
Tetrachloroethene	0.92	0.11	1.1	0	87.5	73	128	0.94	2.04	25	
Toluene	0.97	0.11	1.1	0	92.4	77	121	0.99	1.72	25	
trans-1,2-Dichloroethene	1.1	0.11	1.1	0	101	74	125	1.1	2.63	25	
trans-1,3-Dichloropropene	0.68	0.11	1.1	0	64.7	71	130	0.69	1.23	25	Q
Trichloroethene	0.97	0.11	1.1	0	91.9	77	123	0.99	2.26	25	
Trichlorofluoromethane [Freon-11]	1.3	0.11	1.1	0	128	62	140	1.4	4.21	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86986

Sample ID:	1606588-019CMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/28/2016	RunNo:	86986
Client ID:	ZZZZZZ	Batch ID:	R86986	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1688189

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Vinyl acetate	1.1	2.6	1.1	0	101	50	151	1.1	1.18	25	J
Vinyl chloride	1.0	0.084	1.1	0	95.1	56	135	1.1	5.32	25	
Xylene (Total)	2.8	0.32	3.2	0	88.1	78	124	2.9	3.79	25	
Surr: 4-Bromofluorobenzene	6,000		6,323		94.7	79	119		0	25	
Surr: Dibromofluoromethane	6,400		6,323		101	78	119		0	25	
Surr: Toluene-d8	6,100		6,323		96.7	85	116		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606604

Date Reported: 8/25/2016
Revision v2

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606004

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061616-02
Batch May16

	Database Information					Other Sample Information					Analysis											
	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	% Moisture	Comment
1	H19-SS01	00	01	N	1	H19-SS01-01	6/15/16	1145	SS	7	047	4					1		1			1	
2	H19-SS02	00	01	N	1	H19-SS02-01	"	1150	"	7	"	"					1		"			"	
3	H19-SS02	00	01	FD	1	H19-SS02-01DUP	"	1150	"	7	"	"					1		"			"	Field Dup
4	H22-SS01	00	01	N	1	H22-SS01-01	"	1235	"	8	"	"			1			1	"			"	
5	H22-SS01	01	02	N	1	H22-SS01-02	"	1245	"	8	"	"			1			1	"			"	
6	H22-SS02	00	01	N	1	H22-SS02-01	"	1300	"	8	"	"			1			1	"			"	
7	H22-SS02	01	02	N	1	H22-SS02-02	"	1305	"	8	"	"			1			1	"			"	
8	FIELDQC	—	—	TB	1	TB-SO-061516-02	6/15/16	0905	WQ	4	↓	4											

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
Amanda Martin AECOM	6/16/16	1200	XFER TO FEDEX	6/16/16	1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			Phillip Lindsey	6/17/16	0900
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

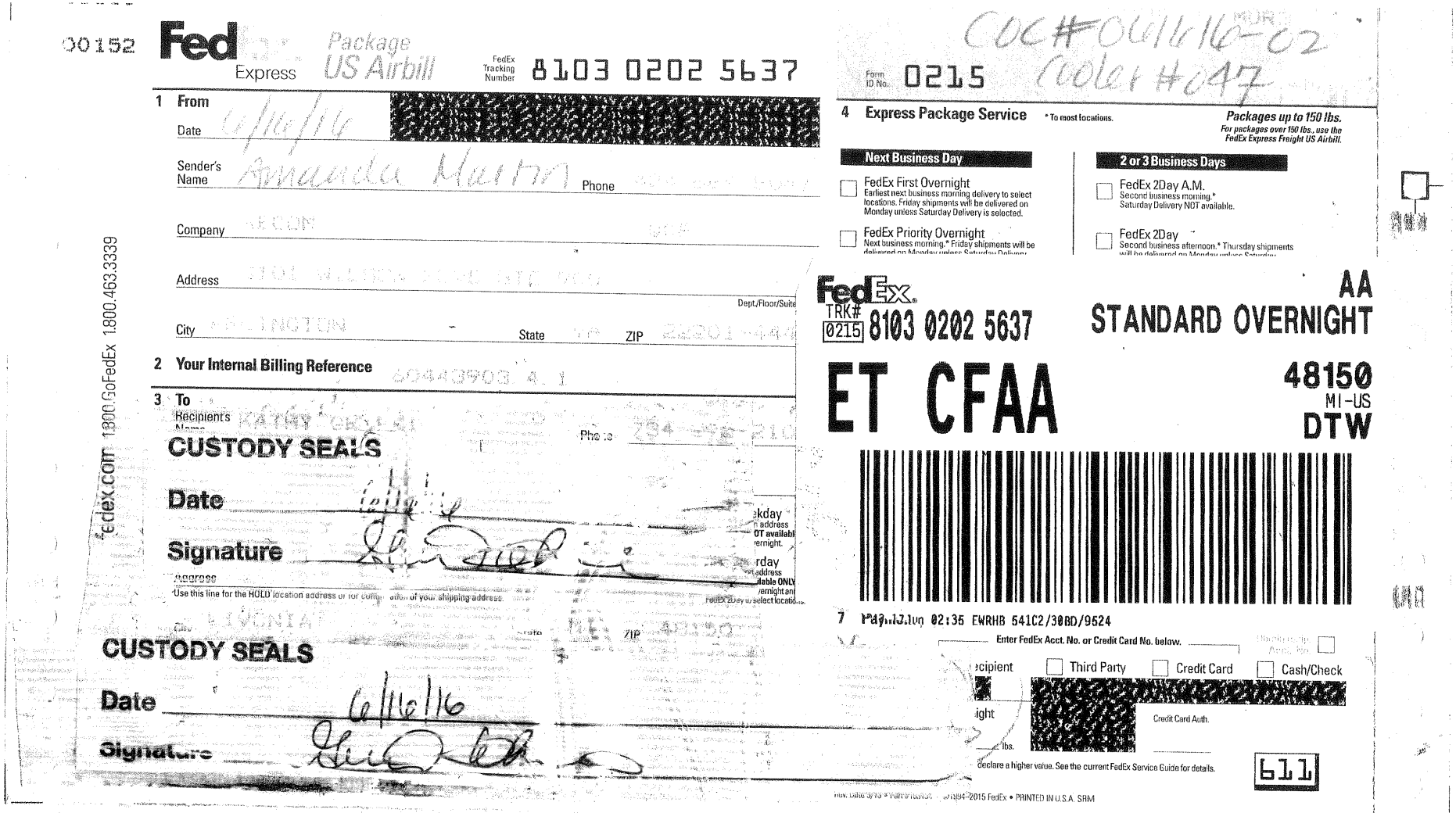
Comments

Shipment Method/Airbill No. 8105 0202 5637

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

7/13 TIME



Cooler: Time Client ID: #047

Temp Blank: 58°C

RTI LABORATORIES, INC.

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Livonia, MI 48150
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Thursday, August 25, 2016

Devon Chicoine
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TEL:
FAX:

RE: Camp Hero

Work Order #: 1606605

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606605-001A	BG04-SB01-05		6/15/2016 11:40 AM	6/17/2016 9:50 AM	Soil
1606605-001B	BG04-SB01-05		6/15/2016 11:40 AM	6/17/2016 9:50 AM	Soil
1606605-002A	BG04-SB01-10		6/15/2016 11:45 AM	6/17/2016 9:50 AM	Soil
1606605-002B	BG04-SB01-10		6/15/2016 11:45 AM	6/17/2016 9:50 AM	Soil
1606605-003A	BG04-SB02-05		6/15/2016 12:20 PM	6/17/2016 9:50 AM	Soil
1606605-003B	BG04-SB02-05		6/15/2016 12:20 PM	6/17/2016 9:50 AM	Soil
1606605-004A	BG04-SB02-10		6/15/2016 12:25 PM	6/17/2016 9:50 AM	Soil
1606605-004B	BG04-SB02-10		6/15/2016 12:25 PM	6/17/2016 9:50 AM	Soil
1606605-005A	BG04-SB03-05		6/15/2016 12:05 PM	6/17/2016 9:50 AM	Soil
1606605-005B	BG04-SB03-05		6/15/2016 12:05 PM	6/17/2016 9:50 AM	Soil
1606605-006A	BG04-SB03-10		6/15/2016 12:10 PM	6/17/2016 9:50 AM	Soil
1606605-006B	BG04-SB03-10		6/15/2016 12:10 PM	6/17/2016 9:50 AM	Soil
1606605-007A	BG04-SB04-05		6/15/2016 11:15 AM	6/17/2016 9:50 AM	Soil
1606605-007B	BG04-SB04-05		6/15/2016 11:15 AM	6/17/2016 9:50 AM	Soil
1606605-008A	BG04-SB04-05 DUP		6/15/2016 11:15 AM	6/17/2016 9:50 AM	Soil
1606605-008B	BG04-SB04-05 DUP		6/15/2016 11:15 AM	6/17/2016 9:50 AM	Soil
1606605-009A	BG04-SB04-10		6/15/2016 11:20 AM	6/17/2016 9:50 AM	Soil
1606605-009B	BG04-SB04-10		6/15/2016 11:20 AM	6/17/2016 9:50 AM	Soil
1606605-010A	BG04-SS01-01		6/15/2016 11:35 AM	6/17/2016 9:50 AM	Soil
1606605-010B	BG04-SS01-01		6/15/2016 11:35 AM	6/17/2016 9:50 AM	Soil
1606605-011A	BG04-SS02-01		6/15/2016 12:15 PM	6/17/2016 9:50 AM	Soil
1606605-011B	BG04-SS02-01		6/15/2016 12:15 PM	6/17/2016 9:50 AM	Soil
1606605-012A	BG04-SS03-01		6/15/2016 12:00 PM	6/17/2016 9:50 AM	Soil
1606605-012B	BG04-SS03-01		6/15/2016 12:00 PM	6/17/2016 9:50 AM	Soil
1606605-013A	BG04-SS04-01		6/15/2016 11:10 AM	6/17/2016 9:50 AM	Soil
1606605-013B	BG04-SS04-01		6/15/2016 11:10 AM	6/17/2016 9:50 AM	Soil
1606605-014A	BG04-SS05-01		6/15/2016 11:20 AM	6/17/2016 9:50 AM	Soil
1606605-014B	BG04-SS05-01		6/15/2016 11:20 AM	6/17/2016 9:50 AM	Soil
1606605-015A	BG04-SS06-01		6/15/2016 11:25 AM	6/17/2016 9:50 AM	Soil
1606605-015B	BG04-SS06-01		6/15/2016 11:25 AM	6/17/2016 9:50 AM	Soil
1606605-016A	BG04-SS07-01		6/15/2016 11:55 AM	6/17/2016 9:50 AM	Soil
1606605-016B	BG04-SS07-01		6/15/2016 11:55 AM	6/17/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A-TL
- Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_6010S, Analytical Run No 87697, Batch ID 40406:
- Sample 1606605-003BMS: Recoveries for several analytes exceeded control limits. Suspected matrix interference for Selenium.
- Sample 1606605-003BMSD: Recoveries for several analytes exceeded control limits. RPD results for Selenium exceeded control limits.

Suspected matrix interference for Selenium.

Analytical Comments for Test SW_6010S, Analytical Run No 87792, Batch ID 40406:
- Sample 1606605-003BMS: Recoveries for Chromium and Zinc exceeded control limits.
- Sample 1606605-003BMSD: Recovery for Zinc exceeded control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87450, Batch ID 40376:
- Samples 1606606-002B MS/MSD: Spike recoveries for several analytes were outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87746, Batch ID 40430:
- Samples 1606652-005F MS/MSD: Spike recoveries for several analytes were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87753, Batch ID R87753:
- Sample CCV 072616 S7: 1-methylnaphthalene exceeded QC limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87753, Batch ID 40291:
- Samples 1606652-014D MS/MSD: Spike recoveries, surrogates and several RPDs were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87854, Batch ID 40290:
- Sample 1606605-011A: Surrogate recoveries for Terphenyl-d14, Nitrobenzene-d5 and 2-Fluorobiphenyl were outside the control limits.
- Sample 1606605-0141A: Surrogate recovery for Terphenyl-d14 was slightly below the control limits.
- Sample LCS-40290, Batch ID 40290 : LCS results for 1-Methylnaphthalene exceeded QC limits

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 887974, Batch ID R87974:
- Sample CCV SIM S8 072516: CCV results for Benzo(g,h,i)perylene and 1-Methylnaphthalene exceeded QC limits

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:40:00 AM
Project:	Camp Hero		
Lab ID:	1606605-001	**Matrix:**	Soil
Client Sample ID:	BG04-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	15,000		61	160	410	mg/Kg-dry	100	7/18/2016 1:58 PM
Antimony	2.8		0.31	0.41	0.81	mg/Kg-dry	1	7/18/2016 12:33 PM
Arsenic	3.3		0.59	0.81	1.6	mg/Kg-dry	1	7/18/2016 12:33 PM
Barium	28		0.24	4.1	8.1	mg/Kg-dry	1	7/18/2016 12:33 PM
Beryllium	0.041	U	0.010	0.041	0.20	mg/Kg-dry	1	7/18/2016 12:33 PM
Cadmium	0.041	U	0.027	0.041	0.20	mg/Kg-dry	1	7/18/2016 12:33 PM
Calcium	520		2.4	8.1	41	mg/Kg-dry	1	7/18/2016 12:33 PM
Chromium	18		0.067	0.33	0.41	mg/Kg-dry	1	7/18/2016 12:33 PM
Cobalt	2.9		0.073	0.20	0.81	mg/Kg-dry	1	7/18/2016 12:33 PM
Copper	33		0.34	0.81	4.1	mg/Kg-dry	1	7/18/2016 12:33 PM
Iron	14,000		25	41	120	mg/Kg-dry	10	7/18/2016 1:27 PM
Lead	4.0	J	0.51	0.81	4.1	mg/Kg-dry	1	7/18/2016 12:33 PM
Magnesium	2,400		28	41	410	mg/Kg-dry	10	7/18/2016 1:27 PM
Manganese	150		0.15	0.20	0.81	mg/Kg-dry	1	7/18/2016 12:33 PM
Nickel	7.6		0.23	0.81	4.1	mg/Kg-dry	1	7/18/2016 12:33 PM
Potassium	1,200		1.9	8.1	16	mg/Kg-dry	1	7/18/2016 12:33 PM
Selenium	1.2	U	0.95	1.2	1.6	mg/Kg-dry	1	7/18/2016 12:33 PM
Silver	0.20	U	0.066	0.20	0.81	mg/Kg-dry	1	7/18/2016 12:33 PM
Sodium	83		1.7	4.1	41	mg/Kg-dry	1	7/18/2016 12:33 PM
Vanadium	23		0.10	0.81	2.0	mg/Kg-dry	1	7/18/2016 12:33 PM
Zinc	18		0.31	0.41	4.1	mg/Kg-dry	1	7/18/2016 12:33 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.14	J	0.039	0.040	0.16	mg/Kg-dry	10	7/12/2016 12:46 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
2-Methylnaphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Acenaphthene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Acenaphthylene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Anthracene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Benz(a)anthracene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Benzo(a)pyrene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Benzo(b)fluoranthene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Benzo(g,h,i)perylene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Benzo(k)fluoranthene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Chrysene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Dibenzo(a,h)anthracene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Fluoranthene	0.0011		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Fluorene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Indeno(1,2,3-cd)pyrene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Naphthalene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Phenanthrene	0.00081	U	0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM
Pyrene	0.00081		0.00081	0.00081	0.00081	mg/Kg-dry	1	8/4/2016 7:52 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:40:00 AM
Project:	Camp Hero		
Lab ID:	1606605-001	**Matrix:**	Soil
Client Sample ID:	BG04-SB01-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	56.6			46-115		%Rec	1	8/4/2016 7:52 PM
Surr: Nitrobenzene-d5	68.6			44-125		%Rec	1	8/4/2016 7:52 PM
Surr: Terphenyl-d14	62.2			58-133		%Rec	1	8/4/2016 7:52 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	18		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 11:45:00 AM
Project: Camp Hero
Lab ID: 1606605-002 **Matrix:** Soil
Client Sample ID: BG04-SB01-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	29,000		110	300	750	mg/Kg-dry	200	7/18/2016 1:59 PM
Antimony	9.8		0.28	0.38	0.75	mg/Kg-dry	1	7/18/2016 12:34 PM
Arsenic	3.5		0.55	0.75	1.5	mg/Kg-dry	1	7/18/2016 12:34 PM
Barium	140		0.22	3.8	7.5	mg/Kg-dry	1	7/18/2016 12:34 PM
Beryllium	0.18	J	0.0095	0.038	0.19	mg/Kg-dry	1	7/18/2016 12:34 PM
Cadmium	0.067	J	0.025	0.038	0.19	mg/Kg-dry	1	7/18/2016 12:34 PM
Calcium	2,500		22	75	380	mg/Kg-dry	10	7/18/2016 1:28 PM
Chromium	41		0.062	0.30	0.38	mg/Kg-dry	1	7/18/2016 12:34 PM
Cobalt	9.8		0.068	0.19	0.75	mg/Kg-dry	1	7/18/2016 12:34 PM
Copper	76		0.31	0.75	3.8	mg/Kg-dry	1	7/18/2016 12:34 PM
Iron	36,000		470	750	2,300	mg/Kg-dry	200	7/18/2016 1:59 PM
Lead	5.3		0.47	0.75	3.8	mg/Kg-dry	1	7/18/2016 12:34 PM
Magnesium	8,800		26	38	380	mg/Kg-dry	10	7/18/2016 1:28 PM
Manganese	530		1.4	1.9	7.5	mg/Kg-dry	10	7/18/2016 1:28 PM
Nickel	25		0.21	0.75	3.8	mg/Kg-dry	1	7/18/2016 12:34 PM
Potassium	6,100		18	75	150	mg/Kg-dry	10	7/18/2016 1:28 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	7/18/2016 12:34 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	7/18/2016 12:34 PM
Sodium	320		1.5	3.8	38	mg/Kg-dry	1	7/18/2016 12:34 PM
Vanadium	59		0.95	7.5	19	mg/Kg-dry	10	7/18/2016 1:28 PM
Zinc	50		0.29	0.38	3.8	mg/Kg-dry	1	7/18/2016 12:34 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.45		0.039	0.040	0.16	mg/Kg-dry	10	7/12/2016 12:47 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
2-Methylnaphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Acenaphthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Acenaphthylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Benz(a)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Benzo(a)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Benzo(b)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Benzo(g,h,i)perylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Benzo(k)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Chrysene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Dibenzo(a,h)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Fluorene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Indeno(1,2,3-cd)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Naphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Phenanthrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM
Pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:20 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606605-002	**Matrix:**	Soil
Client Sample ID:	BG04-SB01-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	58.2			46-115		%Rec	1	8/4/2016 8:20 PM
Surr: Nitrobenzene-d5	69.0			44-125		%Rec	1	8/4/2016 8:20 PM
Surr: Terphenyl-d14	65.2			58-133		%Rec	1	8/4/2016 8:20 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 12:20:00 PM
Project: Camp Hero
Lab ID: 1606605-003 **Matrix:** Soil
Client Sample ID: BG04-SB02-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	17,000		57	150	380	mg/Kg-dry	100	7/28/2016 2:05 PM
Antimony	3.2		0.28	0.38	0.75	mg/Kg-dry	1	7/28/2016 12:46 PM
Arsenic	3.7		0.55	0.75	1.5	mg/Kg-dry	1	7/28/2016 12:46 PM
Barium	38	X	0.22	3.8	7.5	mg/Kg-dry	1	7/28/2016 12:46 PM
Beryllium	0.17	J	0.0096	0.038	0.19	mg/Kg-dry	1	7/28/2016 12:46 PM
Cadmium	0.063	J	0.025	0.038	0.19	mg/Kg-dry	1	7/28/2016 12:46 PM
Calcium	620	X	2.2	7.5	38	mg/Kg-dry	1	7/28/2016 12:46 PM
Chromium	19	X	0.062	0.30	0.38	mg/Kg-dry	1	8/2/2016 12:25 PM
Cobalt	3.4		0.068	0.19	0.75	mg/Kg-dry	1	7/28/2016 12:46 PM
Copper	38	X	0.31	0.75	3.8	mg/Kg-dry	1	7/28/2016 12:46 PM
Iron	19,000		240	380	1,100	mg/Kg-dry	100	7/28/2016 2:05 PM
Lead	5.8		0.47	0.75	3.8	mg/Kg-dry	1	7/28/2016 12:46 PM
Magnesium	2,500		26	38	380	mg/Kg-dry	10	7/28/2016 2:04 PM
Manganese	160	X	0.14	0.19	0.75	mg/Kg-dry	1	7/28/2016 12:46 PM
Nickel	10	X	0.21	0.75	3.8	mg/Kg-dry	1	7/28/2016 12:46 PM
Potassium	1,100	X	1.8	7.5	15	mg/Kg-dry	1	7/28/2016 12:46 PM
Selenium	1.1	UX	0.88	1.1	1.5	mg/Kg-dry	1	7/28/2016 12:46 PM
Silver	0.19	U	0.062	0.19	0.75	mg/Kg-dry	1	7/28/2016 12:46 PM
Sodium	91	X	1.5	3.8	38	mg/Kg-dry	1	7/28/2016 12:46 PM
Vanadium	27		0.096	0.75	1.9	mg/Kg-dry	1	7/28/2016 12:46 PM
Zinc	28	X	0.29	0.38	3.8	mg/Kg-dry	1	8/2/2016 12:25 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.096	J	0.038	0.039	0.16	mg/Kg-dry	10	7/15/2016 1:55 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
2-Methylnaphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Acenaphthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Acenaphthylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Benz(a)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Benzo(a)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Benzo(b)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Benzo(g,h,i)perylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Benzo(k)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Chrysene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Dibenzo(a,h)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Fluorene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Indeno(1,2,3-cd)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Naphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Phenanthrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM
Pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 8:47 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:20:00 PM
Project:	Camp Hero		
Lab ID:	1606605-003	**Matrix:**	Soil
Client Sample ID:	BG04-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	62.3			46-115		%Rec	1	8/4/2016 8:47 PM
Surr: Nitrobenzene-d5	74.3			44-125		%Rec	1	8/4/2016 8:47 PM
Surr: Terphenyl-d14	70.1			58-133		%Rec	1	8/4/2016 8:47 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606605-004	**Matrix:**	Soil
Client Sample ID:	BG04-SB02-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	19,000		59	160	390	mg/Kg-dry	100	7/18/2016 2:00 PM
Antimony	9.7		0.29	0.39	0.78	mg/Kg-dry	1	7/18/2016 12:36 PM
Arsenic	5.0		0.57	0.78	1.6	mg/Kg-dry	1	7/18/2016 12:36 PM
Barium	75		0.23	3.9	7.8	mg/Kg-dry	1	7/18/2016 12:36 PM
Beryllium	0.63		0.0099	0.039	0.20	mg/Kg-dry	1	7/18/2016 12:36 PM
Cadmium	0.070	J	0.026	0.039	0.20	mg/Kg-dry	1	7/18/2016 12:36 PM
Calcium	1,100		2.3	7.8	39	mg/Kg-dry	1	7/18/2016 12:36 PM
Chromium	38		0.064	0.31	0.39	mg/Kg-dry	1	7/18/2016 12:36 PM
Cobalt	9.6		0.070	0.20	0.78	mg/Kg-dry	1	7/18/2016 12:36 PM
Copper	65		0.33	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:36 PM
Iron	30,000		240	390	1,200	mg/Kg-dry	100	7/18/2016 2:00 PM
Lead	4.9		0.49	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:36 PM
Magnesium	5,500		27	39	390	mg/Kg-dry	10	7/18/2016 1:30 PM
Manganese	760		1.4	2.0	7.8	mg/Kg-dry	10	7/18/2016 1:30 PM
Nickel	17		0.22	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:36 PM
Potassium	3,800		18	78	160	mg/Kg-dry	10	7/18/2016 1:30 PM
Selenium	1.2	U	0.91	1.2	1.6	mg/Kg-dry	1	7/18/2016 12:36 PM
Silver	0.20	U	0.064	0.20	0.78	mg/Kg-dry	1	7/18/2016 12:36 PM
Sodium	170		1.6	3.9	39	mg/Kg-dry	1	7/18/2016 12:36 PM
Vanadium	56		0.99	7.8	20	mg/Kg-dry	10	7/18/2016 1:30 PM
Zinc	34		0.30	0.39	3.9	mg/Kg-dry	1	7/18/2016 12:36 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.31		0.037	0.039	0.15	mg/Kg-dry	10	7/12/2016 12:47 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
2-Methylnaphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Acenaphthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Acenaphthylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Benz(a)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Benzo(a)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Benzo(b)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Benzo(g,h,i)perylene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Benzo(k)fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Chrysene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Dibenzo(a,h)anthracene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Fluoranthene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Fluorene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Indeno(1,2,3-cd)pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Naphthalene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Phenanthrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM
Pyrene	0.00079	U	0.00079	0.00079	0.00079	mg/Kg-dry	1	8/4/2016 9:15 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:25:00 PM
Project:	Camp Hero		
Lab ID:	1606605-004	**Matrix:**	Soil
Client Sample ID:	BG04-SB02-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	66.4			46-115		%Rec	1	8/4/2016 9:15 PM
Surr: Nitrobenzene-d5	80.3			44-125		%Rec	1	8/4/2016 9:15 PM
Surr: Terphenyl-d14	74.8			58-133		%Rec	1	8/4/2016 9:15 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:05:00 PM
Project:	Camp Hero		
Lab ID:	1606605-005	**Matrix:**	Soil
Client Sample ID:	BG04-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	31,000		120	310	780	mg/Kg-dry	200	7/18/2016 2:02 PM
Antimony	8.4		0.29	0.39	0.78	mg/Kg-dry	1	7/18/2016 12:37 PM
Arsenic	4.0		0.57	0.78	1.6	mg/Kg-dry	1	7/18/2016 12:37 PM
Barium	110		0.23	3.9	7.8	mg/Kg-dry	1	7/18/2016 12:37 PM
Beryllium	0.34		0.0099	0.039	0.20	mg/Kg-dry	1	7/18/2016 12:37 PM
Cadmium	0.060	J	0.026	0.039	0.20	mg/Kg-dry	1	7/18/2016 12:37 PM
Calcium	1,200		2.3	7.8	39	mg/Kg-dry	1	7/18/2016 12:37 PM
Chromium	40		0.064	0.31	0.39	mg/Kg-dry	1	7/18/2016 12:37 PM
Cobalt	8.6		0.070	0.20	0.78	mg/Kg-dry	1	7/18/2016 12:37 PM
Copper	72		0.32	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:37 PM
Iron	38,000		490	780	2,300	mg/Kg-dry	200	7/18/2016 2:02 PM
Lead	5.3		0.49	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:37 PM
Magnesium	8,400		27	39	390	mg/Kg-dry	10	7/18/2016 1:31 PM
Manganese	420		1.4	2.0	7.8	mg/Kg-dry	10	7/18/2016 1:31 PM
Nickel	23		0.22	0.78	3.9	mg/Kg-dry	1	7/18/2016 12:37 PM
Potassium	5,700		18	78	160	mg/Kg-dry	10	7/18/2016 1:31 PM
Selenium	1.2	U	0.91	1.2	1.6	mg/Kg-dry	1	7/18/2016 12:37 PM
Silver	0.20	U	0.064	0.20	0.78	mg/Kg-dry	1	7/18/2016 12:37 PM
Sodium	200		1.6	3.9	39	mg/Kg-dry	1	7/18/2016 12:37 PM
Vanadium	60		0.99	7.8	20	mg/Kg-dry	10	7/18/2016 1:31 PM
Zinc	45		0.30	0.39	3.9	mg/Kg-dry	1	7/18/2016 12:37 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.43		0.036	0.037	0.15	mg/Kg-dry	10	7/12/2016 12:48 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
2-Methylnaphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Acenaphthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Acenaphthylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Benz(a)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Benzo(a)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Benzo(b)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Benzo(g,h,i)perylene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Benzo(k)fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Chrysene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Dibenzo(a,h)anthracene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Fluoranthene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Fluorene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Indeno(1,2,3-cd)pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Naphthalene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Phenanthrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM
Pyrene	0.00078	U	0.00078	0.00078	0.00078	mg/Kg-dry	1	8/4/2016 9:43 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:05:00 PM
Project:	Camp Hero		
Lab ID:	1606605-005	**Matrix:**	Soil
Client Sample ID:	BG04-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	56.5			46-115		%Rec	1	8/4/2016 9:43 PM
Surr: Nitrobenzene-d5	68.4			44-125		%Rec	1	8/4/2016 9:43 PM
Surr: Terphenyl-d14	64.9			58-133		%Rec	1	8/4/2016 9:43 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	15		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 12:10:00 PM
Project: Camp Hero
Lab ID: 1606605-006 **Matrix:** Soil
Client Sample ID: BG04-SB03-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	27,000		120	310	770	mg/Kg-dry	200	7/18/2016 2:03 PM
Antimony	9.0		0.29	0.39	0.77	mg/Kg-dry	1	7/18/2016 12:38 PM
Arsenic	2.5		0.56	0.77	1.5	mg/Kg-dry	1	7/18/2016 12:38 PM
Barium	110		0.23	3.9	7.7	mg/Kg-dry	1	7/18/2016 12:38 PM
Beryllium	0.099	J	0.0098	0.039	0.19	mg/Kg-dry	1	7/18/2016 12:38 PM
Cadmium	0.036	J	0.026	0.039	0.19	mg/Kg-dry	1	7/18/2016 12:38 PM
Calcium	1,400		2.3	7.7	39	mg/Kg-dry	1	7/18/2016 12:38 PM
Chromium	36		0.064	0.31	0.39	mg/Kg-dry	1	7/18/2016 12:38 PM
Cobalt	9.1		0.070	0.19	0.77	mg/Kg-dry	1	7/18/2016 12:38 PM
Copper	64		0.32	0.77	3.9	mg/Kg-dry	1	7/18/2016 12:38 PM
Iron	29,000		480	770	2,300	mg/Kg-dry	200	7/18/2016 2:03 PM
Lead	5.4		0.48	0.77	3.9	mg/Kg-dry	1	7/18/2016 12:38 PM
Magnesium	7,200		27	39	390	mg/Kg-dry	10	7/18/2016 1:32 PM
Manganese	440		1.4	1.9	7.7	mg/Kg-dry	10	7/18/2016 1:32 PM
Nickel	21		0.22	0.77	3.9	mg/Kg-dry	1	7/18/2016 12:38 PM
Potassium	4,500		18	77	150	mg/Kg-dry	10	7/18/2016 1:32 PM
Selenium	1.2	U	0.90	1.2	1.5	mg/Kg-dry	1	7/18/2016 12:38 PM
Silver	0.19	U	0.063	0.19	0.77	mg/Kg-dry	1	7/18/2016 12:38 PM
Sodium	210		1.6	3.9	39	mg/Kg-dry	1	7/18/2016 12:38 PM
Vanadium	52		0.98	7.7	19	mg/Kg-dry	10	7/18/2016 1:32 PM
Zinc	42		0.30	0.39	3.9	mg/Kg-dry	1	7/18/2016 12:38 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.37		0.037	0.038	0.15	mg/Kg-dry	10	7/12/2016 12:49 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
2-Methylnaphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Acenaphthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Acenaphthylene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Benz(a)anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Benzo(a)pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Benzo(b)fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Benzo(g,h,i)perylene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Benzo(k)fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Chrysene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Dibenzo(a,h)anthracene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Fluoranthene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Fluorene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Indeno(1,2,3-cd)pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Naphthalene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Phenanthrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM
Pyrene	0.00080	U	0.00080	0.00080	0.00080	mg/Kg-dry	1	8/4/2016 10:10 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:10:00 PM
Project:	Camp Hero		
Lab ID:	1606605-006	**Matrix:**	Soil
Client Sample ID:	BG04-SB03-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	63.0			46-115		%Rec	1	8/4/2016 10:10 PM
Surr: Nitrobenzene-d5	74.4			44-125		%Rec	1	8/4/2016 10:10 PM
Surr: Terphenyl-d14	69.5			58-133		%Rec	1	8/4/2016 10:10 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:15:00 AM
Project:	Camp Hero		
Lab ID:	1606605-007	**Matrix:**	Soil
Client Sample ID:	BG04-SB04-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		56	150	370	mg/Kg-dry	100	7/18/2016 1:51 PM
Antimony	2.7		0.28	0.37	0.75	mg/Kg-dry	1	7/18/2016 12:40 PM
Arsenic	3.2		0.54	0.75	1.5	mg/Kg-dry	1	7/18/2016 12:40 PM
Barium	24		0.22	3.7	7.5	mg/Kg-dry	1	7/18/2016 12:40 PM
Beryllium	0.037	U	0.0094	0.037	0.19	mg/Kg-dry	1	7/18/2016 12:40 PM
Cadmium	0.032	J	0.025	0.037	0.19	mg/Kg-dry	1	7/18/2016 12:40 PM
Calcium	610		2.2	7.5	37	mg/Kg-dry	1	7/18/2016 12:40 PM
Chromium	17		0.061	0.30	0.37	mg/Kg-dry	1	7/18/2016 12:40 PM
Cobalt	2.8		0.067	0.19	0.75	mg/Kg-dry	1	7/18/2016 12:40 PM
Copper	35		0.31	0.75	3.7	mg/Kg-dry	1	7/18/2016 12:40 PM
Iron	16,000		23	37	110	mg/Kg-dry	10	7/18/2016 2:15 PM
Lead	3.8		0.46	0.75	3.7	mg/Kg-dry	1	7/18/2016 12:40 PM
Magnesium	2,100		26	37	370	mg/Kg-dry	10	7/18/2016 2:15 PM
Manganese	140		0.14	0.19	0.75	mg/Kg-dry	1	7/18/2016 12:40 PM
Nickel	6.3		0.21	0.75	3.7	mg/Kg-dry	1	7/18/2016 12:40 PM
Potassium	790		1.7	7.5	15	mg/Kg-dry	1	7/18/2016 12:40 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	7/18/2016 12:40 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	7/18/2016 12:40 PM
Sodium	66		1.5	3.7	37	mg/Kg-dry	1	7/18/2016 12:40 PM
Vanadium	23		0.095	0.75	1.9	mg/Kg-dry	1	7/18/2016 12:40 PM
Zinc	18		0.29	0.37	3.7	mg/Kg-dry	1	7/18/2016 12:40 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.11	J	0.037	0.039	0.15	mg/Kg-dry	10	7/12/2016 12:50 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
2-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Benz(a)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Benzo(a)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Benzo(b)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Benzo(g,h,i)perylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Benzo(k)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Chrysene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Naphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Phenanthrene	0.00077	UG	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM
Pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	8/5/2016 11:09 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:15:00 AM
Project:	Camp Hero		
Lab ID:	1606605-007	**Matrix:**	Soil
Client Sample ID:	BG04-SB04-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	61.2			46-115		%Rec	1	8/5/2016 11:09 AM
Surr: Nitrobenzene-d5	72.7			44-125		%Rec	1	8/5/2016 11:09 AM
Surr: Terphenyl-d14	68.6			58-133		%Rec	1	8/5/2016 11:09 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	13		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:15:00 AM
Project:	Camp Hero		
Lab ID:	1606605-008	**Matrix:**	Soil
Client Sample ID:	BG04-SB04-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	10,000		56	150	380	mg/Kg-dry	100	7/28/2016 2:17 PM
Antimony	2.5		0.28	0.38	0.75	mg/Kg-dry	1	7/28/2016 1:14 PM
Arsenic	2.5		0.55	0.75	1.5	mg/Kg-dry	1	7/28/2016 1:14 PM
Barium	21		0.22	3.8	7.5	mg/Kg-dry	1	7/28/2016 1:14 PM
Beryllium	0.039	J	0.0095	0.038	0.19	mg/Kg-dry	1	7/28/2016 1:14 PM
Cadmium	0.037	J	0.025	0.038	0.19	mg/Kg-dry	1	7/28/2016 1:14 PM
Calcium	620		2.2	7.5	38	mg/Kg-dry	1	7/28/2016 1:14 PM
Chromium	13		0.062	0.30	0.38	mg/Kg-dry	1	8/2/2016 12:50 PM
Cobalt	2.6		0.068	0.19	0.75	mg/Kg-dry	1	7/28/2016 1:14 PM
Copper	27		0.31	0.75	3.8	mg/Kg-dry	1	7/28/2016 1:14 PM
Iron	11,000		24	38	110	mg/Kg-dry	10	7/28/2016 2:16 PM
Lead	3.4	J	0.47	0.75	3.8	mg/Kg-dry	1	7/28/2016 1:14 PM
Magnesium	2,100		26	38	380	mg/Kg-dry	10	7/28/2016 2:16 PM
Manganese	120		0.14	0.19	0.75	mg/Kg-dry	1	7/28/2016 1:14 PM
Nickel	6.8		0.21	0.75	3.8	mg/Kg-dry	1	7/28/2016 1:14 PM
Potassium	840		1.8	7.5	15	mg/Kg-dry	1	7/28/2016 1:14 PM
Selenium	1.1	U	0.88	1.1	1.5	mg/Kg-dry	1	7/28/2016 1:14 PM
Silver	0.19	U	0.062	0.19	0.75	mg/Kg-dry	1	7/28/2016 1:14 PM
Sodium	66		1.5	3.8	38	mg/Kg-dry	1	7/28/2016 1:14 PM
Vanadium	19		0.095	0.75	1.9	mg/Kg-dry	1	7/28/2016 1:14 PM
Zinc	16		0.29	0.38	3.8	mg/Kg-dry	1	8/2/2016 12:50 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.081	J	0.035	0.036	0.15	mg/Kg-dry	10	7/15/2016 2:04 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
2-Methylnaphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Acenaphthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Acenaphthylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Benz(a)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Benzo(a)pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Benzo(b)fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Benzo(g,h,i)perylene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Benzo(k)fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Chrysene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Dibenzo(a,h)anthracene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Fluoranthene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Fluorene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Indeno(1,2,3-cd)pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Naphthalene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Phenanthrene	0.00075	UG	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM
Pyrene	0.00075	U	0.00075	0.00075	0.00075	mg/Kg-dry	1	8/5/2016 11:37 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:15:00 AM
Project:	Camp Hero		
Lab ID:	1606605-008	**Matrix:**	Soil
Client Sample ID:	BG04-SB04-05 DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	56.5			46-115		%Rec	1	8/5/2016 11:37 AM
Surr: Nitrobenzene-d5	65.1			44-125		%Rec	1	8/5/2016 11:37 AM
Surr: Terphenyl-d14	61.9			58-133		%Rec	1	8/5/2016 11:37 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:20:00 AM
Project:	Camp Hero		
Lab ID:	1606605-009	**Matrix:**	Soil
Client Sample ID:	BG04-SB04-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	3,000		53	140	350	mg/Kg-dry	100	7/29/2016 1:13 PM
Antimony	1.4		0.26	0.35	0.70	mg/Kg-dry	1	7/29/2016 12:00 PM
Arsenic	0.74	J	0.51	0.70	1.4	mg/Kg-dry	1	7/29/2016 12:00 PM
Barium	12		0.21	3.5	7.0	mg/Kg-dry	1	7/29/2016 12:00 PM
Beryllium	0.063	J	0.0089	0.035	0.18	mg/Kg-dry	1	7/29/2016 12:00 PM
Cadmium	0.035	U	0.023	0.035	0.18	mg/Kg-dry	1	7/29/2016 12:00 PM
Calcium	250		2.1	7.0	35	mg/Kg-dry	1	7/29/2016 12:00 PM
Chromium	3.6		0.058	0.28	0.35	mg/Kg-dry	1	8/1/2016 4:10 PM
Cobalt	1.4		0.063	0.18	0.70	mg/Kg-dry	1	7/29/2016 12:00 PM
Copper	11		0.29	0.70	3.5	mg/Kg-dry	1	7/29/2016 12:00 PM
Iron	5,000		220	350	1,100	mg/Kg-dry	100	7/29/2016 1:13 PM
Lead	0.87	J	0.44	0.70	3.5	mg/Kg-dry	1	7/29/2016 12:00 PM
Magnesium	560		2.5	3.5	35	mg/Kg-dry	1	7/29/2016 12:00 PM
Manganese	65		0.13	0.18	0.70	mg/Kg-dry	1	7/29/2016 12:00 PM
Nickel	2.2	J	0.20	0.70	3.5	mg/Kg-dry	1	7/29/2016 12:00 PM
Potassium	330		1.6	7.0	14	mg/Kg-dry	1	7/29/2016 12:00 PM
Selenium	1.1	U	0.82	1.1	1.4	mg/Kg-dry	1	7/29/2016 12:00 PM
Silver	0.18	U	0.057	0.18	0.70	mg/Kg-dry	1	7/29/2016 12:00 PM
Sodium	55		1.4	3.5	35	mg/Kg-dry	1	7/29/2016 12:00 PM
Vanadium	7.4		0.089	0.70	1.8	mg/Kg-dry	1	7/29/2016 12:00 PM
Zinc	5.2		0.27	0.35	3.5	mg/Kg-dry	1	8/1/2016 4:10 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.053	J	0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 3:18 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
2-Methylnaphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Acenaphthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Acenaphthylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Benz(a)anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Benzo(a)pyrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Benzo(b)fluoranthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Benzo(g,h,i)perylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Benzo(k)fluoranthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Chrysene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Dibenzo(a,h)anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Fluoranthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Fluorene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Indeno(1,2,3-cd)pyrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Naphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Phenanthrene	0.00071	UG	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM
Pyrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	8/5/2016 12:05 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:20:00 AM
Project:	Camp Hero		
Lab ID:	1606605-009	**Matrix:**	Soil
Client Sample ID:	BG04-SB04-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	65.8			46-115		%Rec	1	8/5/2016 12:05 PM
Surr: Nitrobenzene-d5	77.9			44-125		%Rec	1	8/5/2016 12:05 PM
Surr: Terphenyl-d14	71.5			58-133		%Rec	1	8/5/2016 12:05 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	5.6		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:35:00 AM
Project:	Camp Hero		
Lab ID:	1606605-010	**Matrix:**	Soil
Client Sample ID:	BG04-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	17,000		60	160	400	mg/Kg-dry	100	7/29/2016 1:15 PM
Antimony	2.5		0.30	0.40	0.81	mg/Kg-dry	1	7/29/2016 12:01 PM
Arsenic	3.5		0.58	0.81	1.6	mg/Kg-dry	1	7/29/2016 12:01 PM
Barium	35		0.24	4.0	8.1	mg/Kg-dry	1	7/29/2016 12:01 PM
Beryllium	0.19	J	0.010	0.040	0.20	mg/Kg-dry	1	7/29/2016 12:01 PM
Cadmium	0.046	J	0.027	0.040	0.20	mg/Kg-dry	1	7/29/2016 12:01 PM
Calcium	490		2.4	8.1	40	mg/Kg-dry	1	7/29/2016 12:01 PM
Chromium	16		0.066	0.32	0.40	mg/Kg-dry	1	8/1/2016 4:12 PM
Cobalt	2.7		0.072	0.20	0.81	mg/Kg-dry	1	7/29/2016 12:01 PM
Copper	32		0.33	0.81	4.0	mg/Kg-dry	1	7/29/2016 12:01 PM
Iron	16,000		250	400	1,200	mg/Kg-dry	100	7/29/2016 1:15 PM
Lead	7.7		0.50	0.81	4.0	mg/Kg-dry	1	7/29/2016 12:01 PM
Magnesium	1,900		2.8	4.0	40	mg/Kg-dry	1	7/29/2016 12:01 PM
Manganese	150		0.15	0.20	0.81	mg/Kg-dry	1	7/29/2016 12:01 PM
Nickel	7.9		0.23	0.81	4.0	mg/Kg-dry	1	7/29/2016 12:01 PM
Potassium	710		1.9	8.1	16	mg/Kg-dry	1	7/29/2016 12:01 PM
Selenium	1.2	U	0.94	1.2	1.6	mg/Kg-dry	1	7/29/2016 12:01 PM
Silver	0.20	U	0.066	0.20	0.81	mg/Kg-dry	1	7/29/2016 12:01 PM
Sodium	71		1.6	4.0	40	mg/Kg-dry	1	7/29/2016 12:01 PM
Vanadium	24		0.10	0.81	2.0	mg/Kg-dry	1	7/29/2016 12:01 PM
Zinc	20		0.31	0.40	4.0	mg/Kg-dry	1	8/1/2016 4:12 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	J	0.038	0.039	0.16	mg/Kg-dry	10	7/15/2016 3:19 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0079	U	0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
2-Methylnaphthalene	0.0079	U	0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Acenaphthene	0.0079	U	0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Acenaphthylene	0.0079	U	0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Anthracene	0.015		0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Benz(a)anthracene	0.058		0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Benzo(a)pyrene	0.049		0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Benzo(b)fluoranthene	0.071		0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Benzo(g,h,i)perylene	0.031		0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Benzo(k)fluoranthene	0.030		0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Chrysene	0.058		0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Dibenzo(a,h)anthracene	0.0079	U	0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Fluoranthene	0.15		0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Fluorene	0.0079	U	0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Indeno(1,2,3-cd)pyrene	0.031		0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Naphthalene	0.0079	U	0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Phenanthrene	0.083	G	0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM
Pyrene	0.12		0.0079	0.0079	0.0079	mg/Kg-dry	10	8/5/2016 12:33 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:35:00 AM
Project:	Camp Hero		
Lab ID:	1606605-010	**Matrix:**	Soil
Client Sample ID:	BG04-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	66.6			46-115		%Rec	10	8/5/2016 12:33 PM
Surr: Nitrobenzene-d5	60.1			44-125		%Rec	10	8/5/2016 12:33 PM
Surr: Terphenyl-d14	73.0			58-133		%Rec	10	8/5/2016 12:33 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	17		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:15:00 PM
Project:	Camp Hero		
Lab ID:	1606605-011	**Matrix:**	Soil
Client Sample ID:	BG04-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	15,000		59	160	390	mg/Kg-dry	100	7/29/2016 1:18 PM
Antimony	3.2		0.30	0.39	0.79	mg/Kg-dry	1	7/29/2016 12:03 PM
Arsenic	2.4		0.57	0.79	1.6	mg/Kg-dry	1	7/29/2016 12:03 PM
Barium	32		0.23	3.9	7.9	mg/Kg-dry	1	7/29/2016 12:03 PM
Beryllium	0.086	J	0.010	0.039	0.20	mg/Kg-dry	1	7/29/2016 12:03 PM
Cadmium	0.031	J	0.026	0.039	0.20	mg/Kg-dry	1	7/29/2016 12:03 PM
Calcium	1,700		2.3	7.9	39	mg/Kg-dry	1	7/29/2016 12:03 PM
Chromium	30		0.065	0.32	0.39	mg/Kg-dry	1	8/1/2016 4:14 PM
Cobalt	3.4		0.071	0.20	0.79	mg/Kg-dry	1	7/29/2016 12:03 PM
Copper	31		0.33	0.79	3.9	mg/Kg-dry	1	7/29/2016 12:03 PM
Iron	13,000		25	39	120	mg/Kg-dry	10	7/29/2016 1:16 PM
Lead	6.2		0.49	0.79	3.9	mg/Kg-dry	1	7/29/2016 12:03 PM
Magnesium	2,900		28	39	390	mg/Kg-dry	10	7/29/2016 1:16 PM
Manganese	180		0.15	0.20	0.79	mg/Kg-dry	1	7/29/2016 12:03 PM
Nickel	12		0.22	0.79	3.9	mg/Kg-dry	1	7/29/2016 12:03 PM
Potassium	940		1.8	7.9	16	mg/Kg-dry	1	7/29/2016 12:03 PM
Selenium	1.2	U	0.92	1.2	1.6	mg/Kg-dry	1	7/29/2016 12:03 PM
Silver	0.20	U	0.064	0.20	0.79	mg/Kg-dry	1	7/29/2016 12:03 PM
Sodium	200		1.6	3.9	39	mg/Kg-dry	1	7/29/2016 12:03 PM
Vanadium	24		0.10	0.79	2.0	mg/Kg-dry	1	7/29/2016 12:03 PM
Zinc	25		0.30	0.39	3.9	mg/Kg-dry	1	8/1/2016 4:14 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.15	J	0.038	0.039	0.16	mg/Kg-dry	10	7/15/2016 3:20 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.016	U	0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
2-Methylnaphthalene	0.016	U	0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Acenaphthene	0.025		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Acenaphthylene	0.016	U	0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Anthracene	0.065		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Benz(a)anthracene	0.22		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Benzo(a)pyrene	0.17		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Benzo(b)fluoranthene	0.25		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Benzo(g,h,i)perylene	0.10		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Benzo(k)fluoranthene	0.086		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Chrysene	0.20		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Dibenzo(a,h)anthracene	0.016	U	0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Fluoranthene	0.54		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Fluorene	0.024		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Indeno(1,2,3-cd)pyrene	0.10		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Naphthalene	0.016	U	0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Phenanthrene	0.31	G	0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM
Pyrene	0.41		0.016	0.016	0.016	mg/Kg-dry	20	8/5/2016 1:01 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:15:00 PM
Project:	Camp Hero		
Lab ID:	1606605-011	**Matrix:**	Soil
Client Sample ID:	BG04-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	0	QU		46-115		%Rec	20	8/5/2016 1:01 PM
Surr: Nitrobenzene-d5	0	QU		44-125		%Rec	20	8/5/2016 1:01 PM
Surr: Terphenyl-d14	0	QU		58-133		%Rec	20	8/5/2016 1:01 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/27/2016 11:00 AM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:00:00 PM
Project:	Camp Hero		
Lab ID:	1606605-012	**Matrix:**	Soil
Client Sample ID:	BG04-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	16,000		61	160	410	mg/Kg-dry	100	7/29/2016 1:19 PM
Antimony	2.0		0.31	0.41	0.82	mg/Kg-dry	1	7/29/2016 12:04 PM
Arsenic	3.1		0.59	0.82	1.6	mg/Kg-dry	1	7/29/2016 12:04 PM
Barium	32		0.24	4.1	8.2	mg/Kg-dry	1	7/29/2016 12:04 PM
Beryllium	0.23		0.010	0.041	0.20	mg/Kg-dry	1	7/29/2016 12:04 PM
Cadmium	0.034	J	0.027	0.041	0.20	mg/Kg-dry	1	7/29/2016 12:04 PM
Calcium	560		2.4	8.2	41	mg/Kg-dry	1	7/29/2016 12:04 PM
Chromium	13		0.067	0.33	0.41	mg/Kg-dry	1	8/1/2016 4:15 PM
Cobalt	2.2		0.074	0.20	0.82	mg/Kg-dry	1	7/29/2016 12:04 PM
Copper	33		0.34	0.82	4.1	mg/Kg-dry	1	7/29/2016 12:04 PM
Iron	18,000		260	410	1,200	mg/Kg-dry	100	7/29/2016 1:19 PM
Lead	4.6		0.51	0.82	4.1	mg/Kg-dry	1	7/29/2016 12:04 PM
Magnesium	1,500		2.9	4.1	41	mg/Kg-dry	1	7/29/2016 12:04 PM
Manganese	120		0.15	0.20	0.82	mg/Kg-dry	1	7/29/2016 12:04 PM
Nickel	7.3		0.23	0.82	4.1	mg/Kg-dry	1	7/29/2016 12:04 PM
Potassium	550		1.9	8.2	16	mg/Kg-dry	1	7/29/2016 12:04 PM
Selenium	1.2	U	0.95	1.2	1.6	mg/Kg-dry	1	7/29/2016 12:04 PM
Silver	0.20	U	0.067	0.20	0.82	mg/Kg-dry	1	7/29/2016 12:04 PM
Sodium	65		1.7	4.1	41	mg/Kg-dry	1	7/29/2016 12:04 PM
Vanadium	23		0.10	0.82	2.0	mg/Kg-dry	1	7/29/2016 12:04 PM
Zinc	22		0.32	0.41	4.1	mg/Kg-dry	1	8/1/2016 4:15 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.11	J	0.040	0.041	0.17	mg/Kg-dry	10	7/15/2016 3:36 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
2-Methylnaphthalene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Acenaphthene	0.0034		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Acenaphthylene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Anthracene	0.0064		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Benz(a)anthracene	0.026		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Benzo(a)pyrene	0.022		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Benzo(b)fluoranthene	0.030		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Benzo(g,h,i)perylene	0.013		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Benzo(k)fluoranthene	0.016		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Chrysene	0.026		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Dibenzo(a,h)anthracene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Fluoranthene	0.069		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Fluorene	0.0032		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Indeno(1,2,3-cd)pyrene	0.013		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Naphthalene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Phenanthrene	0.043	G	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM
Pyrene	0.053		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 1:29 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 12:00:00 PM
Project:	Camp Hero		
Lab ID:	1606605-012	**Matrix:**	Soil
Client Sample ID:	BG04-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	59.5			46-115		%Rec	3	8/5/2016 1:29 PM
Surr: Nitrobenzene-d5	67.2			44-125		%Rec	3	8/5/2016 1:29 PM
Surr: Terphenyl-d14	63.5			58-133		%Rec	3	8/5/2016 1:29 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:10:00 AM
Project:	Camp Hero		
Lab ID:	1606605-013	**Matrix:**	Soil
Client Sample ID:	BG04-SS04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	21,000		120	320	790	mg/Kg-dry	200	7/29/2016 2:31 PM
Antimony	2.5		0.30	0.40	0.79	mg/Kg-dry	1	7/29/2016 12:06 PM
Arsenic	4.3		0.57	0.79	1.6	mg/Kg-dry	1	7/29/2016 12:06 PM
Barium	37		0.24	4.0	7.9	mg/Kg-dry	1	7/29/2016 12:06 PM
Beryllium	0.18	J	0.010	0.040	0.20	mg/Kg-dry	1	7/29/2016 12:06 PM
Cadmium	0.040	U	0.026	0.040	0.20	mg/Kg-dry	1	7/29/2016 12:06 PM
Calcium	600		2.3	7.9	40	mg/Kg-dry	1	7/29/2016 12:06 PM
Chromium	16		0.065	0.32	0.40	mg/Kg-dry	1	8/1/2016 4:17 PM
Cobalt	2.6		0.071	0.20	0.79	mg/Kg-dry	1	7/29/2016 12:06 PM
Copper	34		0.33	0.79	4.0	mg/Kg-dry	1	7/29/2016 12:06 PM
Iron	20,000		250	400	1,200	mg/Kg-dry	100	7/29/2016 1:21 PM
Lead	5.3		0.49	0.79	4.0	mg/Kg-dry	1	7/29/2016 12:06 PM
Magnesium	1,800		2.8	4.0	40	mg/Kg-dry	1	7/29/2016 12:06 PM
Manganese	130		0.15	0.20	0.79	mg/Kg-dry	1	7/29/2016 12:06 PM
Nickel	8.8		0.22	0.79	4.0	mg/Kg-dry	1	7/29/2016 12:06 PM
Potassium	670		1.8	7.9	16	mg/Kg-dry	1	7/29/2016 12:06 PM
Selenium	1.2	U	0.92	1.2	1.6	mg/Kg-dry	1	7/29/2016 12:06 PM
Silver	0.20	U	0.065	0.20	0.79	mg/Kg-dry	1	7/29/2016 12:06 PM
Sodium	74		1.6	4.0	40	mg/Kg-dry	1	7/29/2016 12:06 PM
Vanadium	26		0.10	0.79	2.0	mg/Kg-dry	1	7/29/2016 12:06 PM
Zinc	24		0.31	0.40	4.0	mg/Kg-dry	1	8/1/2016 4:17 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	J	0.037	0.038	0.15	mg/Kg-dry	10	7/15/2016 3:37 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
2-Methylnaphthalene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Acenaphthene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Acenaphthylene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Anthracene	0.0029		0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Benz(a)anthracene	0.0088		0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Benzo(a)pyrene	0.0069		0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Benzo(b)fluoranthene	0.0095		0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Benzo(g,h,i)perylene	0.0045		0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Benzo(k)fluoranthene	0.0041		0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Chrysene	0.0074		0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Dibenzo(a,h)anthracene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Fluoranthene	0.021		0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Fluorene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Indeno(1,2,3-cd)pyrene	0.0045		0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Naphthalene	0.0024	U	0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Phenanthrene	0.012	G	0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM
Pyrene	0.016		0.0024	0.0024	0.0024	mg/Kg-dry	3	8/5/2016 1:57 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:10:00 AM
Project:	Camp Hero		
Lab ID:	1606605-013	**Matrix:**	Soil
Client Sample ID:	BG04-SS04-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	66.5			46-115		%Rec	3	8/5/2016 1:57 PM
Surr: Nitrobenzene-d5	74.2			44-125		%Rec	3	8/5/2016 1:57 PM
Surr: Terphenyl-d14	69.8			58-133		%Rec	3	8/5/2016 1:57 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	16		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:20:00 AM
Project:	Camp Hero		
Lab ID:	1606605-014	**Matrix:**	Soil
Client Sample ID:	BG04-SS05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	19,000		61	160	400	mg/Kg-dry	100	7/29/2016 1:22 PM
Antimony	2.1		0.30	0.40	0.81	mg/Kg-dry	1	7/29/2016 12:07 PM
Arsenic	4.6		0.59	0.81	1.6	mg/Kg-dry	1	7/29/2016 12:07 PM
Barium	34		0.24	4.0	8.1	mg/Kg-dry	1	7/29/2016 12:07 PM
Beryllium	0.24		0.010	0.040	0.20	mg/Kg-dry	1	7/29/2016 12:07 PM
Cadmium	0.040	U	0.027	0.040	0.20	mg/Kg-dry	1	7/29/2016 12:07 PM
Calcium	440		2.4	8.1	40	mg/Kg-dry	1	7/29/2016 12:07 PM
Chromium	15		0.067	0.32	0.40	mg/Kg-dry	1	8/1/2016 4:18 PM
Cobalt	2.3		0.073	0.20	0.81	mg/Kg-dry	1	7/29/2016 12:07 PM
Copper	38		0.34	0.81	4.0	mg/Kg-dry	1	7/29/2016 12:07 PM
Iron	20,000		250	400	1,200	mg/Kg-dry	100	7/29/2016 1:22 PM
Lead	6.4		0.50	0.81	4.0	mg/Kg-dry	1	7/29/2016 12:07 PM
Magnesium	1,600		2.8	4.0	40	mg/Kg-dry	1	7/29/2016 12:07 PM
Manganese	130		0.15	0.20	0.81	mg/Kg-dry	1	7/29/2016 12:07 PM
Nickel	7.9		0.23	0.81	4.0	mg/Kg-dry	1	7/29/2016 12:07 PM
Potassium	660		1.9	8.1	16	mg/Kg-dry	1	7/29/2016 12:07 PM
Selenium	1.2	U	0.94	1.2	1.6	mg/Kg-dry	1	7/29/2016 12:07 PM
Silver	0.20	U	0.066	0.20	0.81	mg/Kg-dry	1	7/29/2016 12:07 PM
Sodium	77		1.7	4.0	40	mg/Kg-dry	1	7/29/2016 12:07 PM
Vanadium	26		0.10	0.81	2.0	mg/Kg-dry	1	7/29/2016 12:07 PM
Zinc	21		0.31	0.40	4.0	mg/Kg-dry	1	8/1/2016 4:18 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.13	J	0.038	0.039	0.16	mg/Kg-dry	10	7/15/2016 3:38 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
2-Methylnaphthalene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Acenaphthene	0.0029		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Acenaphthylene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Anthracene	0.0059		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Benz(a)anthracene	0.024		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Benzo(a)pyrene	0.020		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Benzo(b)fluoranthene	0.031		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Benzo(g,h,i)perylene	0.011		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Benzo(k)fluoranthene	0.0083		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Chrysene	0.020		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Dibenzo(a,h)anthracene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Fluoranthene	0.060		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Fluorene	0.0027		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Indeno(1,2,3-cd)pyrene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Naphthalene	0.0025	U	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Phenanthrene	0.035	G	0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM
Pyrene	0.045		0.0025	0.0025	0.0025	mg/Kg-dry	3	8/5/2016 2:24 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:20:00 AM
Project:	Camp Hero		
Lab ID:	1606605-014	**Matrix:**	Soil
Client Sample ID:	BG04-SS05-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	52.6			46-115		%Rec	3	8/5/2016 2:24 PM
Surr: Nitrobenzene-d5	58.8			44-125		%Rec	3	8/5/2016 2:24 PM
Surr: Terphenyl-d14	57.3	Q		58-133		%Rec	3	8/5/2016 2:24 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	19		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:25:00 AM
Project:	Camp Hero		
Lab ID:	1606605-015	**Matrix:**	Soil
Client Sample ID:	BG04-SS06-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	16,000		63	170	420	mg/Kg-dry	100	7/29/2016 1:24 PM
Antimony	1.5		0.32	0.42	0.84	mg/Kg-dry	1	7/29/2016 12:09 PM
Arsenic	2.9		0.61	0.84	1.7	mg/Kg-dry	1	7/29/2016 12:09 PM
Barium	29		0.25	4.2	8.4	mg/Kg-dry	1	7/29/2016 12:09 PM
Beryllium	0.17	J	0.011	0.042	0.21	mg/Kg-dry	1	7/29/2016 12:09 PM
Cadmium	0.059	J	0.028	0.042	0.21	mg/Kg-dry	1	7/29/2016 12:09 PM
Calcium	460		2.5	8.4	42	mg/Kg-dry	1	7/29/2016 12:09 PM
Chromium	14		0.069	0.34	0.42	mg/Kg-dry	1	8/1/2016 4:20 PM
Cobalt	1.7		0.076	0.21	0.84	mg/Kg-dry	1	7/29/2016 12:09 PM
Copper	34		0.35	0.84	4.2	mg/Kg-dry	1	7/29/2016 12:09 PM
Iron	17,000		260	420	1,300	mg/Kg-dry	100	7/29/2016 1:24 PM
Lead	7.1		0.52	0.84	4.2	mg/Kg-dry	1	7/29/2016 12:09 PM
Magnesium	1,500		2.9	4.2	42	mg/Kg-dry	1	7/29/2016 12:09 PM
Manganese	110		0.16	0.21	0.84	mg/Kg-dry	1	7/29/2016 12:09 PM
Nickel	7.0		0.24	0.84	4.2	mg/Kg-dry	1	7/29/2016 12:09 PM
Potassium	580		2.0	8.4	17	mg/Kg-dry	1	7/29/2016 12:09 PM
Selenium	1.3	U	0.98	1.3	1.7	mg/Kg-dry	1	7/29/2016 12:09 PM
Silver	0.21	U	0.069	0.21	0.84	mg/Kg-dry	1	7/29/2016 12:09 PM
Sodium	80		1.7	4.2	42	mg/Kg-dry	1	7/29/2016 12:09 PM
Vanadium	24		0.11	0.84	2.1	mg/Kg-dry	1	7/29/2016 12:09 PM
Zinc	22		0.33	0.42	4.2	mg/Kg-dry	1	8/1/2016 4:20 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.11	J	0.041	0.042	0.17	mg/Kg-dry	10	7/15/2016 3:39 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0063	Y	0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
2-Methylnaphthalene	0.0068		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Acenaphthene	0.0037		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Acenaphthylene	0.0026	U	0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Anthracene	0.0050		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Benz(a)anthracene	0.026		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Benzo(a)pyrene	0.023		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Benzo(b)fluoranthene	0.036		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Benzo(g,h,i)perylene	0.013		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Benzo(k)fluoranthene	0.013		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Chrysene	0.025		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Dibenzo(a,h)anthracene	0.0026	U	0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Fluoranthene	0.072		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Fluorene	0.0037		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Indeno(1,2,3-cd)pyrene	0.013		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Naphthalene	0.0048		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Phenanthrene	0.044		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM
Pyrene	0.053		0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 9:16 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:25:00 AM
Project:	Camp Hero		
Lab ID:	1606605-015	**Matrix:**	Soil
Client Sample ID:	BG04-SS06-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	75.5			46-115		%Rec	3	7/26/2016 9:16 PM
Surr: Nitrobenzene-d5	82.4			44-125		%Rec	3	7/26/2016 9:16 PM
Surr: Terphenyl-d14	78.0			58-133		%Rec	3	7/26/2016 9:16 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	22		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:55:00 AM
Project:	Camp Hero		
Lab ID:	1606605-016	**Matrix:**	Soil
Client Sample ID:	BG04-SS07-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	14,000		63	170	420	mg/Kg-dry	100	7/29/2016 1:38 PM
Antimony	1.2		0.32	0.42	0.84	mg/Kg-dry	1	7/29/2016 12:10 PM
Arsenic	3.3		0.61	0.84	1.7	mg/Kg-dry	1	7/29/2016 12:10 PM
Barium	38		0.25	4.2	8.4	mg/Kg-dry	1	7/29/2016 12:10 PM
Beryllium	0.14	J	0.011	0.042	0.21	mg/Kg-dry	1	7/29/2016 12:10 PM
Cadmium	0.091	J	0.028	0.042	0.21	mg/Kg-dry	1	7/29/2016 12:10 PM
Calcium	970		2.5	8.4	42	mg/Kg-dry	1	7/29/2016 12:10 PM
Chromium	11		0.069	0.34	0.42	mg/Kg-dry	1	8/1/2016 4:21 PM
Cobalt	1.4		0.076	0.21	0.84	mg/Kg-dry	1	7/29/2016 12:10 PM
Copper	35		0.35	0.84	4.2	mg/Kg-dry	1	7/29/2016 12:10 PM
Iron	16,000		260	420	1,300	mg/Kg-dry	100	7/29/2016 1:38 PM
Lead	10		0.52	0.84	4.2	mg/Kg-dry	1	7/29/2016 12:10 PM
Magnesium	1,400		2.9	4.2	42	mg/Kg-dry	1	7/29/2016 12:10 PM
Manganese	130		0.16	0.21	0.84	mg/Kg-dry	1	7/29/2016 12:10 PM
Nickel	6.2		0.24	0.84	4.2	mg/Kg-dry	1	7/29/2016 12:10 PM
Potassium	590		2.0	8.4	17	mg/Kg-dry	1	7/29/2016 12:10 PM
Selenium	1.3	U	0.98	1.3	1.7	mg/Kg-dry	1	7/29/2016 12:10 PM
Silver	0.21	U	0.069	0.21	0.84	mg/Kg-dry	1	7/29/2016 12:10 PM
Sodium	100		1.7	4.2	42	mg/Kg-dry	1	7/29/2016 12:10 PM
Vanadium	25		0.11	0.84	2.1	mg/Kg-dry	1	7/29/2016 12:10 PM
Zinc	23		0.33	0.42	4.2	mg/Kg-dry	1	8/1/2016 4:21 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.098	J	0.041	0.043	0.17	mg/Kg-dry	10	7/15/2016 3:39 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0086	Y	0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
2-Methylnaphthalene	0.0086	U	0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Acenaphthene	0.013		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Acenaphthylene	0.0086	U	0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Anthracene	0.025		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Benz(a)anthracene	0.10		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Benzo(a)pyrene	0.088		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Benzo(b)fluoranthene	0.14		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Benzo(g,h,i)perylene	0.0086	U	0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Benzo(k)fluoranthene	0.050		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Chrysene	0.097		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Dibenzo(a,h)anthracene	0.0086	U	0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Fluoranthene	0.27		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Fluorene	0.012		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Indeno(1,2,3-cd)pyrene	0.049		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Naphthalene	0.0086	U	0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Phenanthrene	0.16		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM
Pyrene	0.21		0.0086	0.0086	0.0086	mg/Kg-dry	10	7/26/2016 9:43 PM

RTI Laboratories - Analytical Report

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 11:55:00 AM
Project:	Camp Hero		
Lab ID:	1606605-016	**Matrix:**	Soil
Client Sample ID:	BG04-SS07-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	92.2			46-115		%Rec	10	7/26/2016 9:43 PM
Surr: Nitrobenzene-d5	90.8			44-125		%Rec	10	7/26/2016 9:43 PM
Surr: Terphenyl-d14	93.1			58-133		%Rec	10	7/26/2016 9:43 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	22		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - DATES REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606605-001A	BG04-SB01-05	6/15/2016 11:40 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 7:52 PM
1606605-001B	BG04-SB01-05	6/15/2016 11:40 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:46 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:33 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:27 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:58 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-002A	BG04-SB01-10	6/15/2016 11:45 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 8:20 PM
1606605-002B	BG04-SB01-10	6/15/2016 11:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:47 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:34 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:28 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:59 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-003A	BG04-SB02-05	6/15/2016 12:20 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	7/25/2016 3:50 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 8:47 PM
1606605-003B	BG04-SB02-05	6/15/2016 12:20 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 1:55 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 12:46 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:04 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:05 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 12:25 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-004A	BG04-SB02-10	6/15/2016 12:25 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 9:15 PM
1606605-004B	BG04-SB02-10	6/15/2016 12:25 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:47 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:36 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:30 PM

RTI Laboratories - DATES REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606605-004B	BG04-SB02-10	6/15/2016 12:25 PM	Soil				
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 2:00 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-005A	BG04-SB03-05	6/15/2016 12:05 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 9:43 PM
1606605-005B	BG04-SB03-05	6/15/2016 12:05 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:48 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:37 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:31 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 2:02 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-006A	BG04-SB03-10	6/15/2016 12:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/4/2016 10:10 PM
1606605-006B	BG04-SB03-10	6/15/2016 12:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:49 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:38 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:32 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 2:03 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-007A	BG04-SB04-05	6/15/2016 11:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/5/2016 11:09 AM
1606605-007B	BG04-SB04-05	6/15/2016 11:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:50 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:40 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:51 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 2:15 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-008A	BG04-SB04-05 DUP	6/15/2016 11:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/5/2016 11:37 AM
1606605-008B	BG04-SB04-05 DUP	6/15/2016 11:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:04 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:14 PM

RTI Laboratories - DATES REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606605-008B	BG04-SB04-05 DUP	6/15/2016 11:15 AM	Soil				
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:16 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:17 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 12:50 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-009A	BG04-SB04-10	6/15/2016 11:20 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/5/2016 12:05 PM
1606605-009B	BG04-SB04-10	6/15/2016 11:20 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:18 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:00 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:13 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:10 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-010A	BG04-SS01-01	6/15/2016 11:35 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/5/2016 12:33 PM
1606605-010B	BG04-SS01-01	6/15/2016 11:35 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:19 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:01 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:15 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:12 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-011A	BG04-SS02-01	6/15/2016 12:15 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/5/2016 1:01 PM
1606605-011B	BG04-SS02-01	6/15/2016 12:15 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:20 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:03 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:16 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:18 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:14 PM
				PMOIST-Percent Moisture		6/27/2016 11:00 AM	6/27/2016 11:00 AM
1606605-012A	BG04-SS03-01	6/15/2016 12:00 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/5/2016 1:29 PM

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WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606605-012B	BG04-SS03-01	6/15/2016 12:00 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:36 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:04 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:19 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:15 PM
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606605-013A	BG04-SS04-01	6/15/2016 11:10 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/5/2016 1:57 PM
1606605-013B	BG04-SS04-01	6/15/2016 11:10 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:37 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:06 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:21 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 2:31 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:17 PM
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606605-014A	BG04-SS05-01	6/15/2016 11:20 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:11 AM	8/5/2016 2:24 PM
1606605-014B	BG04-SS05-01	6/15/2016 11:20 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:38 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:07 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:22 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:18 PM
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606605-015A	BG04-SS06-01	6/15/2016 11:25 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 9:16 PM
1606605-015B	BG04-SS06-01	6/15/2016 11:25 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:39 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:09 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:24 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:20 PM
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM

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WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606605-016A	BG04-SS07-01	6/15/2016 11:55 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 9:43 PM
1606605-016B	BG04-SS07-01	6/15/2016 11:55 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:39 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:10 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:38 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:21 PM
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	**LCS-40258**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**%Rec**	Prep Date:	**6/26/2016**	RunNo:	**87786**
Client ID:	**LCSS**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/1/2016**	SeqNo:	**1706011**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	20		16.26		124	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		145	44	125				Q
Surr: Terphenyl-d14	22		16.26		134	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40280

Sample ID:	MB-40280	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	PBS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706006

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	19		16.27		116	46	115				Q
Surr: Nitrobenzene-d5	21		16.27		126	44	125				Q
Surr: Terphenyl-d14	21		16.27		128	58	133				

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	21		16.66		125	46	115				Q
Surr: Nitrobenzene-d5	23		16.66		140	44	125				Q
Surr: Terphenyl-d14	22		16.66		133	58	133				Q

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	23		19.72		119	46	115				Q
Surr: Nitrobenzene-d5	28		19.72		142	44	125				Q
Surr: Terphenyl-d14	28		19.72		144	58	133				Q

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706920

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	25		19.41		129	46	115		0	25	Q
Surr: Nitrobenzene-d5	29		19.41		151	44	125		0	25	Q
Surr: Terphenyl-d14	29		19.41		150	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40290**

Sample ID:	**MB-40290**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87974**
Client ID:	**PBS**	Batch ID:	**40290**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/25/2016**	SeqNo:	**1710405**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00065	0.00065									UY
2-Methylnaphthalene	0.00065	0.00065									U
Acenaphthene	0.00065	0.00065									U
Acenaphthylene	0.00065	0.00065									U
Anthracene	0.00065	0.00065									U
Benz(a)anthracene	0.00065	0.00065									U
Benzo(a)pyrene	0.00065	0.00065									U
Benzo(b)fluoranthene	0.00065	0.00065									UY
Benzo(g,h,i)perylene	0.00065	0.00065									U
Benzo(k)fluoranthene	0.00065	0.00065									U
Chrysene	0.00065	0.00065									U
Dibenzo(a,h)anthracene	0.00065	0.00065									U
Fluoranthene	0.00065	0.00065									U
Fluorene	0.00065	0.00065									U
Indeno(1,2,3-cd)pyrene	0.00065	0.00065									U
Naphthalene	0.00065	0.00065									U
Phenanthrene	0.00065	0.00065									U
Pyrene	0.00065	0.00065									U
Surr: 2-Fluorobiphenyl	15		16.26		94.0	46	115				
Surr: Nitrobenzene-d5	15		16.26		94.1	44	125				
Surr: Terphenyl-d14	17		16.26		107	58	133				

Sample ID:	**LCS-40290**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87974**
Client ID:	**LCSS**	Batch ID:	**40290**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/25/2016**	SeqNo:	**1710406**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.018	0.00067	0.013	0	138	43	111				QY
2-Methylnaphthalene	0.012	0.00067	0.013	0	88.8	39	114				
Acenaphthene	0.011	0.00067	0.013	0	84.9	44	111				
Acenaphthylene	0.012	0.00067	0.013	0	86.8	39	116				
Anthracene	0.011	0.00067	0.013	0	83.6	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40290**

Sample ID:	LCS-40290	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87974
Client ID:	LCSS	Batch ID:	40290	TestNo:	SW8270C	SW3550C		Analysis Date:	7/25/2016	SeqNo:	1710406

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.012	0.00067	0.013	0	87.9	54	122				
Benzo(a)pyrene	0.011	0.00067	0.013	0	80.6	50	125				
Benzo(b)fluoranthene	0.012	0.00067	0.013	0	88.4	53	128				Y
Benzo(g,h,i)perylene	0.011	0.00067	0.013	0	85.7	49	127				
Benzo(k)fluoranthene	0.012	0.00067	0.013	0	89.2	56	123				
Chrysene	0.012	0.00067	0.013	0	86.8	57	118				
Dibenzo(a,h)anthracene	0.012	0.00067	0.013	0	88.5	50	129				
Fluoranthene	0.012	0.00067	0.013	0	91.3	55	119				
Fluorene	0.011	0.00067	0.013	0	83.3	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00067	0.013	0	88.4	49	130				
Naphthalene	0.011	0.00067	0.013	0	82.8	38	111				
Phenanthrene	0.011	0.00067	0.013	0	82.3	49	113				
Pyrene	0.011	0.00067	0.013	0	84.1	55	117				
Surr: 2-Fluorobiphenyl	17		16.63		104	46	115				
Surr: Nitrobenzene-d5	18		16.63		106	44	125				
Surr: Terphenyl-d14	19		16.63		117	58	133				

Sample ID:	1606605-003AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87974
Client ID:	BG04-SB02-05MS1	Batch ID:	40290	TestNo:	SW8270C	SW3550C		Analysis Date:	7/25/2016	SeqNo:	1710413

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.0024	0.016	0	129	43	111				QY
2-Methylnaphthalene	0.012	0.0024	0.016	0	73.6	39	114				
Acenaphthene	0.011	0.0024	0.016	0	70.0	44	111				
Acenaphthylene	0.011	0.0024	0.016	0	71.4	39	116				
Anthracene	0.011	0.0024	0.016	0	67.2	50	114				
Benz(a)anthracene	0.012	0.0024	0.016	0	73.9	54	122				
Benzo(a)pyrene	0.011	0.0024	0.016	0	67.7	50	125				
Benzo(b)fluoranthene	0.011	0.0024	0.016	0	69.5	53	128				Y
Benzo(g,h,i)perylene	0.0098	0.0024	0.016	0	62.3	49	127				
Benzo(k)fluoranthene	0.011	0.0024	0.016	0	71.5	56	123				

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WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40290**

Sample ID:	1606605-003AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87974
Client ID:	BG04-SB02-05MS1	Batch ID:	40290	TestNo:	SW8270C	SW3550C		Analysis Date:	7/25/2016	SeqNo:	1710413

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.011	0.0024	0.016	0	69.7	57	118				
Dibenzo(a,h)anthracene	0.010	0.0024	0.016	0	65.9	50	129				
Fluoranthene	0.011	0.0024	0.016	0	71.6	55	119				
Fluorene	0.010	0.0024	0.016	0	66.2	47	114				
Indeno(1,2,3-cd)pyrene	0.010	0.0024	0.016	0	66.0	49	130				
Naphthalene	0.011	0.0024	0.016	0	68.5	38	111				
Phenanthrene	0.011	0.0024	0.016	0	68.4	49	113				
Pyrene	0.011	0.0024	0.016	0	71.7	55	117				
Surr: 2-Fluorobiphenyl	16		19.69		80.5	46	115				
Surr: Nitrobenzene-d5	16		19.69		83.0	44	125				
Surr: Terphenyl-d14	18		19.69		92.7	58	133				

Sample ID:	1606605-003AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87974
Client ID:	BG04-SB02-05SD1	Batch ID:	40290	TestNo:	SW8270C	SW3550C		Analysis Date:	7/25/2016	SeqNo:	1710414

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.034	0.0024	0.016	0	216	43	111	0.020	50.5	25	RQY
2-Methylnaphthalene	0.013	0.0024	0.016	0	81.4	39	114	0.012	10.3	25	
Acenaphthene	0.011	0.0024	0.016	0	72.1	44	111	0.011	3.19	25	
Acenaphthylene	0.012	0.0024	0.016	0	75.9	39	116	0.011	6.38	25	
Anthracene	0.012	0.0024	0.016	0	73.2	50	114	0.011	8.78	25	
Benz(a)anthracene	0.012	0.0024	0.016	0	78.6	54	122	0.012	6.37	25	
Benzo(a)pyrene	0.010	0.0024	0.016	0	65.2	50	125	0.011	3.42	25	
Benzo(b)fluoranthene	0.012	0.0024	0.016	0	73.7	53	128	0.011	6.03	25	Y
Benzo(g,h,i)perylene	0.010	0.0024	0.016	0	63.8	49	127	0.0098	2.64	25	
Benzo(k)fluoranthene	0.012	0.0024	0.016	0	75.0	56	123	0.011	5.06	25	
Chrysene	0.012	0.0024	0.016	0	73.7	57	118	0.011	5.91	25	
Dibenzo(a,h)anthracene	0.011	0.0024	0.016	0	68.9	50	129	0.010	4.70	25	
Fluoranthene	0.012	0.0024	0.016	0	74.7	55	119	0.011	4.54	25	
Fluorene	0.011	0.0024	0.016	0	67.3	47	114	0.010	1.93	25	
Indeno(1,2,3-cd)pyrene	0.011	0.0024	0.016	0	68.6	49	130	0.010	4.12	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40290**

Sample ID:	1606605-003AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87974
Client ID:	BG04-SB02-05SD1	Batch ID:	40290	TestNo:	SW8270C	SW3550C		Analysis Date:	7/25/2016	SeqNo:	1710414

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.011	0.0024	0.016	0	72.1	38	111	0.011	5.49	25	
Phenanthrene	0.011	0.0024	0.016	0	69.1	49	113	0.011	1.19	25	
Pyrene	0.012	0.0024	0.016	0	76.7	55	117	0.011	7.08	25	
Surr: 2-Fluorobiphenyl	17		19.75		86.3	46	115		0	25	
Surr: Nitrobenzene-d5	18		19.75		91.2	44	125		0	25	
Surr: Terphenyl-d14	20		19.75		101	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	MB-40291	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	PBS	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705092

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									UY
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benz(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	14		16.57		86.7	46	115				
Surr: Nitrobenzene-d5	16		16.57		93.9	44	125				
Surr: Terphenyl-d14	16		16.57		96.2	58	133				

Sample ID:	LCS-40291	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	LCSS	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705093

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.0093	0.00067	0.013	0	69.7	43	111				Y
2-Methylnaphthalene	0.0085	0.00067	0.013	0	64.2	39	114				
Acenaphthene	0.0086	0.00067	0.013	0	64.6	44	111				
Acenaphthylene	0.0084	0.00067	0.013	0	63.3	39	116				
Anthracene	0.0088	0.00067	0.013	0	66.6	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	LCS-40291	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	LCSS	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705093

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.0097	0.00067	0.013	0	73.0	54	122				
Benzo(a)pyrene	0.0089	0.00067	0.013	0	67.0	50	125				
Benzo(b)fluoranthene	0.0097	0.00067	0.013	0	72.9	53	128				
Benzo(g,h,i)perylene	0.0091	0.00067	0.013	0	68.8	49	127				
Benzo(k)fluoranthene	0.010	0.00067	0.013	0	74.9	56	123				
Chrysene	0.0096	0.00067	0.013	0	71.9	57	118				
Dibenzo(a,h)anthracene	0.0092	0.00067	0.013	0	69.5	50	129				
Fluoranthene	0.0096	0.00067	0.013	0	72.0	55	119				
Fluorene	0.0085	0.00067	0.013	0	63.6	47	114				
Indeno(1,2,3-cd)pyrene	0.0091	0.00067	0.013	0	68.8	49	130				
Naphthalene	0.0079	0.00067	0.013	0	59.7	38	111				
Phenanthrene	0.0088	0.00067	0.013	0	66.2	49	113				
Pyrene	0.0094	0.00067	0.013	0	71.0	55	117				
Surr: 2-Fluorobiphenyl	14		16.62		87.2	46	115				
Surr: Nitrobenzene-d5	16		16.62		97.9	44	125				
Surr: Terphenyl-d14	18		16.62		106	58	133				

Sample ID:	1606652-005DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705095

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.0020	0.014	0	96.1	43	111				Y
2-Methylnaphthalene	0.013	0.0020	0.014	0	93.1	39	114				
Acenaphthene	0.0095	0.0020	0.014	0	69.7	44	111				
Acenaphthylene	0.0089	0.0020	0.014	0	65.4	39	116				
Anthracene	0.0095	0.0020	0.014	0	69.7	50	114				
Benz(a)anthracene	0.011	0.0020	0.014	0	77.5	54	122				
Benzo(a)pyrene	0.0088	0.0020	0.014	0	64.6	50	125				
Benzo(b)fluoranthene	0.011	0.0020	0.014	0	78.7	53	128				
Benzo(g,h,i)perylene	0.0094	0.0020	0.014	0	69.0	49	127				
Benzo(k)fluoranthene	0.011	0.0020	0.014	0	78.0	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	1606652-005DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705095

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.0099	0.0020	0.014	0	72.8	57	118				
Dibenzo(a,h)anthracene	0.0090	0.0020	0.014	0	66.0	50	129				
Fluoranthene	0.011	0.0020	0.014	0.0021	67.9	55	119				
Fluorene	0.0092	0.0020	0.014	0	67.7	47	114				
Indeno(1,2,3-cd)pyrene	0.0094	0.0020	0.014	0	69.0	49	130				
Naphthalene	0.010	0.0020	0.014	0	74.4	38	111				
Phenanthrene	0.010	0.0020	0.014	0	74.5	49	113				
Pyrene	0.011	0.0020	0.014	0	80.0	55	117				
Surr: 2-Fluorobiphenyl	17		16.98		98.4	46	115				
Surr: Nitrobenzene-d5	18		16.98		107	44	125				
Surr: Terphenyl-d14	18		16.98		104	58	133				

Sample ID:	1606652-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705096

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.014	0.0020	0.013	0	104	43	111	0.013	6.74	25	Y
2-Methylnaphthalene	0.013	0.0020	0.013	0	99.7	39	114	0.013	5.74	25	
Acenaphthene	0.011	0.0020	0.013	0	81.9	44	111	0.0095	15.1	25	
Acenaphthylene	0.010	0.0020	0.013	0	77.9	39	116	0.0089	16.3	25	
Anthracene	0.011	0.0020	0.013	0	83.9	50	114	0.0095	17.4	25	
Benz(a)anthracene	0.012	0.0020	0.013	0	90.6	54	122	0.011	14.5	25	
Benzo(a)pyrene	0.010	0.0020	0.013	0	77.3	50	125	0.0088	16.9	25	
Benzo(b)fluoranthene	0.013	0.0020	0.013	0	96.1	53	128	0.011	18.7	25	
Benzo(g,h,i)perylene	0.011	0.0020	0.013	0	80.9	49	127	0.0094	14.8	25	
Benzo(k)fluoranthene	0.012	0.0020	0.013	0	86.4	56	123	0.011	9.11	25	
Chrysene	0.011	0.0020	0.013	0	84.0	57	118	0.0099	13.2	25	
Dibenzo(a,h)anthracene	0.010	0.0020	0.013	0	76.6	50	129	0.0090	13.8	25	
Fluoranthene	0.013	0.0020	0.013	0.0021	83.6	55	119	0.011	16.4	25	
Fluorene	0.011	0.0020	0.013	0	79.3	47	114	0.0092	14.8	25	
Indeno(1,2,3-cd)pyrene	0.011	0.0020	0.013	0	80.9	49	130	0.0094	14.8	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	1606652-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705096

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.011	0.0020	0.013	0	82.5	38	111	0.010	9.18	25	
Phenanthrene	0.012	0.0020	0.013	0	88.4	49	113	0.010	16.0	25	
Pyrene	0.013	0.0020	0.013	0	93.1	55	117	0.011	14.0	25	
Surr: 2-Fluorobiphenyl	18		16.80		105	46	115		0	25	
Surr: Nitrobenzene-d5	18		16.80		110	44	125		0	25	
Surr: Terphenyl-d14	19		16.80		115	58	133		0	25	

Sample ID:	1606652-014DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705098

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	9.4	0.0026	0.017	5.6	22,400	43	111				JQY
2-Methylnaphthalene	8.7	0.0026	0.017	5.6	18,200	39	114				JQ
Acenaphthene	1.5	0.0026	0.017	0.20	7,740	44	111				JQ
Acenaphthylene	0.48	0.0026	0.017	0.22	1,510	39	116				JQ
Anthracene	4.6	0.0026	0.017	66	-358,000	50	114				JQ
Benz(a)anthracene	0.13	0.0026	0.017	0.14	-60.8	54	122				JQ
Benzo(a)pyrene	0.072	0.0026	0.017	0.071	9.64	50	125				Q
Benzo(b)fluoranthene	0.11	0.0026	0.017	0.12	-52.7	53	128				Q
Benzo(g,h,i)perylene	0.037	0.0026	0.017	0.031	33.5	49	127				Q
Benzo(k)fluoranthene	0.042	0.0026	0.017	0.038	24.5	56	123				Q
Chrysene	0.11	0.0026	0.017	0.11	-11.3	57	118				Q
Dibenzo(a,h)anthracene	0.023	0.0026	0.017	0.013	59.4	50	129				
Fluoranthene	0.47	0.0026	0.017	2.6	-12,200	55	119				JQ
Fluorene	1.5	0.0026	0.017	0.70	4,800	47	114				JQ
Indeno(1,2,3-cd)pyrene	0.037	0.0026	0.017	0.031	33.5	49	130				Q
Naphthalene	5.6	0.0026	0.017	0.40	30,400	38	111				JQ
Phenanthrene	4.3	0.0026	0.017	61	-332,000	49	113				JQ
Pyrene	0.63	0.0026	0.017	0.66	-163	55	117				JQ
Surr: 2-Fluorobiphenyl	95		21.42		443	46	115				Q
Surr: Nitrobenzene-d5	540		21.42		2,500	44	125				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40291

Sample ID:	1606652-014DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705098

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Terphenyl-d14	32		21.42		151	58	133				Q

Sample ID:	1606652-014DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705099

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	13	0.0026	0.017	5.6	43,800	43	111	9.4	32.7	25	JRQY
2-Methylnaphthalene	12	0.0026	0.017	5.6	39,400	39	114	8.7	34.9	25	JRQ
Acenaphthene	0.74	0.0026	0.017	0.20	3,150	44	111	1.5	69.0	25	JRQ
Acenaphthylene	0.20	0.0026	0.017	0.22	-130	39	116	0.48	82.8	25	JRQ
Anthracene	18	0.0026	0.017	66	-281,000	50	114	4.6	116	25	JRQ
Benz(a)anthracene	0.11	0.0026	0.017	0.14	-176	54	122	0.13	16.1	25	Q
Benzo(a)pyrene	0.062	0.0026	0.017	0.071	-51.5	50	125	0.072	15.7	25	Q
Benzo(b)fluoranthene	0.089	0.0026	0.017	0.12	-169	53	128	0.11	20.2	25	Q
Benzo(g,h,i)perylene	0.033	0.0026	0.017	0.031	10.1	49	127	0.037	11.5	25	Q
Benzo(k)fluoranthene	0.040	0.0026	0.017	0.038	12.3	56	123	0.042	5.10	25	Q
Chrysene	0.086	0.0026	0.017	0.11	-146	57	118	0.11	23.8	25	Q
Dibenzo(a,h)anthracene	0.0046	0.0026	0.017	0.013	-50.4	50	129	0.023	134	25	RQ
Fluoranthene	6.6	0.0026	0.017	2.6	23,500	55	119	0.47	174	25	JRQ
Fluorene	0.67	0.0026	0.017	0.70	-181	47	114	1.5	77.8	25	JRQ
Indeno(1,2,3-cd)pyrene	0.033	0.0026	0.017	0.031	10.1	49	130	0.037	11.5	25	Q
Naphthalene	8.1	0.0026	0.017	0.40	44,700	38	111	5.6	36.4	25	JRQ
Phenanthrene	63	0.0026	0.017	61	9,780	49	113	4.3	174	25	JRQ
Pyrene	0.53	0.0026	0.017	0.66	-715	55	117	0.63	16.3	25	JQ
Surr: 2-Fluorobiphenyl	21		21.53		97.3	46	115		0	25	
Surr: Nitrobenzene-d5	510		21.53		2,360	44	125		0	25	JQ
Surr: Terphenyl-d14	32		21.53		147	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40291

Sample ID:	1606606-002AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705125

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.0022	0.014	0.0044	62.7	43	111				Y
2-Methylnaphthalene	0.012	0.0022	0.014	0.0048	50.1	39	114				
Acenaphthene	0.011	0.0022	0.014	0	77.0	44	111				
Acenaphthylene	0.011	0.0022	0.014	0	74.8	39	116				
Anthracene	0.012	0.0022	0.014	0	80.5	50	114				
Benz(a)anthracene	0.012	0.0022	0.014	0	84.8	54	122				
Benzo(a)pyrene	0.011	0.0022	0.014	0	78.7	50	125				
Benzo(b)fluoranthene	0.012	0.0022	0.014	0	86.4	53	128				
Benzo(g,h,i)perylene	0.011	0.0022	0.014	0	75.0	49	127				
Benzo(k)fluoranthene	0.012	0.0022	0.014	0	81.2	56	123				
Chrysene	0.011	0.0022	0.014	0	76.5	57	118				
Dibenzo(a,h)anthracene	0.011	0.0022	0.014	0	75.2	50	129				
Fluoranthene	0.012	0.0022	0.014	0	82.4	55	119				
Fluorene	0.011	0.0022	0.014	0	75.0	47	114				
Indeno(1,2,3-cd)pyrene	0.011	0.0022	0.014	0	75.0	49	130				
Naphthalene	0.012	0.0022	0.014	0.0026	63.6	38	111				
Phenanthrene	0.011	0.0022	0.014	0	75.4	49	113				
Pyrene	0.011	0.0022	0.014	0	78.7	55	117				
Surr: 2-Fluorobiphenyl	16		17.90		91.4	46	115				
Surr: Nitrobenzene-d5	17		17.90		93.0	44	125				
Surr: Terphenyl-d14	18		17.90		99.8	58	133				

Sample ID:	1606606-002AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705126

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.015	0.0021	0.014	0.0044	76.9	43	111	0.013	13.5	25	Y
2-Methylnaphthalene	0.014	0.0021	0.014	0.0048	64.4	39	114	0.012	15.2	25	
Acenaphthene	0.012	0.0021	0.014	0	85.4	44	111	0.011	9.60	25	
Acenaphthylene	0.012	0.0021	0.014	0	84.0	39	116	0.011	10.7	25	
Anthracene	0.013	0.0021	0.014	0	90.9	50	114	0.012	11.3	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	**1606606-002AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/29/2016**	RunNo:	**87753**
Client ID:	**ZZZZZZ**	Batch ID:	**40291**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/26/2016**	SeqNo:	**1705126**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.013	0.0021	0.014	0	94.5	54	122	0.012	10.0	25	
Benzo(a)pyrene	0.012	0.0021	0.014	0	87.5	50	125	0.011	9.75	25	
Benzo(b)fluoranthene	0.014	0.0021	0.014	0	97.1	53	128	0.012	10.8	25	
Benzo(g,h,i)perylene	0.012	0.0021	0.014	0	82.8	49	127	0.011	9.09	25	
Benzo(k)fluoranthene	0.012	0.0021	0.014	0	86.0	56	123	0.012	4.98	25	
Chrysene	0.012	0.0021	0.014	0	84.3	57	118	0.011	8.86	25	
Dibenzo(a,h)anthracene	0.012	0.0021	0.014	0	83.4	50	129	0.011	9.51	25	
Fluoranthene	0.013	0.0021	0.014	0	94.6	55	119	0.012	13.0	25	
Fluorene	0.012	0.0021	0.014	0	82.8	47	114	0.011	9.16	25	
Indeno(1,2,3-cd)pyrene	0.012	0.0021	0.014	0	82.8	49	130	0.011	9.09	25	
Naphthalene	0.013	0.0021	0.014	0.0026	75.9	38	111	0.012	13.2	25	
Phenanthrene	0.012	0.0021	0.014	0	84.5	49	113	0.011	10.5	25	
Pyrene	0.013	0.0021	0.014	0	88.6	55	117	0.011	11.0	25	
Surr: 2-Fluorobiphenyl	18		17.76		101	46	115		0	25	
Surr: Nitrobenzene-d5	19		17.76		106	44	125		0	25	
Surr: Terphenyl-d14	20		17.76		111	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40376

Sample ID:	MB-40376	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	PBS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698120

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40376	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	LCSS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698121

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	111	74	119				
Antimony	24	1.0	25	0	96.1	79	114				
Arsenic	22	2.0	25	0	89.4	82	111				
Barium	25	10	25	0	101	83	113				
Beryllium	25	0.25	25	0	99.4	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40376**

Sample ID:	LCS-40376	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	LCSS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698121

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	90.1	82	113				
Calcium	230	50	250	0	91.9	81	116				
Chromium	25	0.50	25	0	98.1	85	113				
Cobalt	24	1.0	25	0	96.2	85	112				
Copper	25	5.0	25	0	99.4	81	117				
Iron	240	15	250	0	94.9	81	118				
Lead	24	5.0	25	0	95.4	81	112				
Magnesium	240	50	250	0	96.2	78	115				
Manganese	25	1.0	25	0	101	84	114				
Nickel	23	5.0	25	0	93.8	83	113				
Potassium	240	20	250	0	95.6	81	116				
Selenium	23	2.0	25	0	93.3	78	111				
Silver	23	1.0	25	0	90.3	82	112				
Sodium	250	50	250	0	98.0	83	118				
Vanadium	24	2.5	25	0	95.9	82	114				
Zinc	24	5.0	25	0	94.5	82	113				

Sample ID:	1606606-002BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	ZZZZZZ	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698123

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,100	3.5	18	7,300	4,700	74	119				Q
Antimony	19	0.70	18	2.9	90.2	79	114				
Arsenic	17	1.4	18	1.7	87.1	82	111				
Barium	56	7.0	18	38	102	83	113				
Beryllium	17	0.18	18	0.072	94.8	83	113				
Cadmium	16	0.18	18	0	90.9	82	113				
Calcium	810	35	180	620	104	81	116				
Chromium	31	0.35	18	14	96.6	85	113				
Cobalt	18	0.70	18	3.0	87.2	85	112				
Copper	47	3.5	18	29	99.1	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40376

Sample ID: **1606606-002BMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/8/2016** RunNo: **87450**

Client ID: **ZZZZZZ** Batch ID: **40376** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/18/2016** SeqNo: **1698123**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,800	11	180	9,700	55.7	81	118				JQ
Lead	18	3.5	18	2.6	89.8	81	112				
Magnesium	2,400	35	180	2,200	113	78	115				J
Manganese	180	0.70	18	170	50.8	84	114				Q
Nickel	23	3.5	18	6.8	90.5	83	113				
Potassium	1,700	14	180	1,500	135	81	116				Q
Selenium	13	1.4	18	0	73.0	78	111				Q
Silver	16	0.70	18	0	90.1	82	112				
Sodium	280	35	180	110	99.2	83	118				
Vanadium	34	1.8	18	18	89.3	82	114				
Zinc	31	3.5	18	17	78.5	82	113				Q

Sample ID: **1606606-002BMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/8/2016** RunNo: **87450**

Client ID: **ZZZZZZ** Batch ID: **40376** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/18/2016** SeqNo: **1698124**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,500	3.5	18	7,300	1,420	74	119	8,100	7.34	20	Q
Antimony	19	0.71	18	2.9	90.6	79	114	19	0.932	20	
Arsenic	18	1.4	18	1.7	90.6	82	111	17	4.13	20	
Barium	53	7.1	18	38	87.3	83	113	56	4.70	20	
Beryllium	18	0.18	18	0.072	98.8	83	113	17	4.73	20	
Cadmium	16	0.18	18	0	91.2	82	113	16	1.05	20	
Calcium	790	35	180	620	95.5	81	116	810	1.65	20	
Chromium	30	0.35	18	14	90.6	85	113	31	3.11	20	
Cobalt	19	0.71	18	3.0	87.6	85	112	18	0.831	20	
Copper	46	3.5	18	29	92.2	81	117	47	2.40	20	
Iron	9,300	11	180	9,700	-230	81	118	9,800	5.27	20	JQ
Lead	19	3.5	18	2.6	90.3	81	112	18	1.01	20	
Magnesium	2,200	35	180	2,200	36.5	78	115	2,400	5.80	20	JQ
Manganese	180	0.71	18	170	81.1	84	114	180	3.04	20	JQ
Nickel	23	3.5	18	6.8	89.9	83	113	23	0.0527	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40376

Sample ID:	1606606-002BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	ZZZZZZ	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698124

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,700	14	180	1,500	109	81	116	1,700	2.59	20	
Selenium	14	1.4	18	0	80.9	78	111	13	10.9	20	
Silver	16	0.71	18	0	90.9	82	112	16	1.46	20	
Sodium	290	35	180	110	106	83	118	280	4.30	20	
Vanadium	33	1.8	18	18	86.4	82	114	34	1.26	20	
Zinc	31	3.5	18	17	76.0	82	113	31	1.14	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40379

Sample ID:	MB-40379	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	PBS	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694102

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	1606606-002BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	ZZZZZZ	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.0	0.14	7.1	0.16	97.0	83	118				

Sample ID:	1606606-002BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	ZZZZZZ	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694109

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.6	0.14	7.0	0.16	106	83	118	7.0	7.60	20	

Sample ID:	LCS-40379	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	LCSS	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694110

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	10	0.20	10	0	105	83	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40406**

Sample ID:	MB-40406	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	PBS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703715

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	27	5.0	25	0	109	74	119				
Antimony	25	1.0	25	0	100	79	114				
Arsenic	23	2.0	25	0	93.5	82	111				
Barium	26	10	25	0	103	83	113				
Beryllium	25	0.25	25	0	100	83	113				
Cadmium	23	0.25	25	0	91.7	82	113				
Calcium	250	50	250	0	98.5	81	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cobalt	24	1.0	25	0	97.5	85	112				
Copper	27	5.0	25	0	107	81	117				
Iron	240	15	250	0	96.1	81	118				
Lead	25	5.0	25	0	99.5	81	112				
Magnesium	250	50	250	0	99.6	78	115				
Manganese	26	1.0	25	0	105	84	114				
Nickel	25	5.0	25	0	100	83	113				
Potassium	260	20	250	0	103	81	116				
Selenium	25	2.0	25	0	101	78	111				
Silver	23	1.0	25	0	91.6	82	112				
Sodium	260	50	250	0	102	83	118				
Vanadium	25	2.5	25	0	98.6	82	114				

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	BG04-SB02-05MS1	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	17,000	3.8	19	15,000	9,960	74	119				Q
Antimony	22	0.76	19	3.2	96.0	79	114				
Arsenic	22	1.5	19	3.7	95.5	82	111				
Barium	59	7.6	19	38	112	83	113				
Beryllium	19	0.19	19	0.17	96.5	83	113				
Cadmium	18	0.19	19	0.063	94.9	82	113				
Calcium	1,000	38	190	620	218	81	116				Q
Cobalt	21	0.76	19	3.4	92.8	85	112				
Copper	71	3.8	19	38	171	81	117				Q
Iron	15,000	11	190	14,000	589	81	118				JQ
Lead	24	3.8	19	5.8	97.2	81	112				
Magnesium	2,600	38	190	2,200	207	78	115				JQ
Manganese	190	0.76	19	160	186	84	114				JQ
Nickel	34	3.8	19	10	126	83	113				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	BG04-SB02-05MS1	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,400	15	190	1,100	158	81	116				Q
Selenium	13	1.5	19	0	67.5	78	111				Q
Silver	18	0.76	19	0	95.5	82	112				
Sodium	320	38	190	91	120	83	118				Q
Vanadium	48	1.9	19	27	111	82	114				J

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	BG04-SB02-05SD1	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703719

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	18,000	3.8	19	15,000	16,700	74	119	17,000	7.32	20	Q
Antimony	20	0.76	19	3.2	90.1	79	114	22	5.92	20	
Arsenic	20	1.5	19	3.7	86.9	82	111	22	8.31	20	
Barium	61	7.6	19	38	125	83	113	59	3.92	20	Q
Beryllium	18	0.19	19	0.17	91.6	83	113	19	5.73	20	
Cadmium	17	0.19	19	0.063	89.0	82	113	18	7.00	20	
Calcium	910	38	190	620	155	81	116	1,000	12.5	20	Q
Cobalt	20	0.76	19	3.4	87.3	85	112	21	5.66	20	
Copper	69	3.8	19	38	163	81	117	71	2.53	20	Q
Iron	16,000	11	190	14,000	1,210	81	118	15,000	7.45	20	JQ
Lead	23	3.8	19	5.8	90.4	81	112	24	5.96	20	
Magnesium	2,400	38	190	2,200	108	78	115	2,600	7.72	20	J
Manganese	180	0.76	19	160	104	84	114	190	8.58	20	
Nickel	31	3.8	19	10	111	83	113	34	8.77	20	
Potassium	1,200	15	190	1,100	85.3	81	116	1,400	10.9	20	
Selenium	10	1.5	19	0	52.8	78	111	13	25.2	20	RQ
Silver	17	0.76	19	0	88.7	82	112	18	7.99	20	
Sodium	270	38	190	91	96.7	83	118	320	15.0	20	
Vanadium	46	1.9	19	27	101	82	114	48	4.29	20	J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	MB-40406	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	PBS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706197

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	0.50	0.50									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706198

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	26	0.50	25	0	104	85	113				
Zinc	25	5.0	25	0	99.4	82	113				

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	BG04-SB02-05MS1	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706200

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	42	0.38	19	19	116	85	113				Q
Zinc	67	3.8	19	28	205	82	113				Q

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	BG04-SB02-05SD1	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706201

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	38	0.38	19	19	96.9	85	113	42	9.34	20	
Zinc	57	3.8	19	28	154	82	113	67	16.0	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40409**

Sample ID:	**LCS-40409**	Samp Type:	**LCS**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/12/2016**	RunNo:	**87409**
Client ID:	**LCSS**	Batch ID:	**40409**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/15/2016**	SeqNo:	**1697329**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.8	0.20	10	0	97.9	83	118				

Sample ID:	**MB-40409**	Samp Type:	**MBLK**	Test Code:	**SW_6020S**	Units:	**mg/Kg**	Prep Date:	**7/12/2016**	RunNo:	**87409**
Client ID:	**PBS**	Batch ID:	**40409**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/15/2016**	SeqNo:	**1697330**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	**1606605-003BMS**	Samp Type:	**MS**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/12/2016**	RunNo:	**87409**
Client ID:	**BG04-SB02-05MS1**	Batch ID:	**40409**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/15/2016**	SeqNo:	**1697332**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.5	0.16	7.9	0.096	94.3	83	118				

Sample ID:	**1606605-003BMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020S**	Units:	**mg/Kg-dry**	Prep Date:	**7/12/2016**	RunNo:	**87409**
Client ID:	**BG04-SB02-05SD1**	Batch ID:	**40409**	TestNo:	**SW6020A**	**SW3050B**		Analysis Date:	**7/15/2016**	SeqNo:	**1697333**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.9	0.16	7.9	0.096	86.2	83	118	7.5	8.82	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40430**

Sample ID:	**MB-40430**	Samp Type:	**MBLK**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**7/14/2016**	RunNo:	**87746**
Client ID:	**PBS**	Batch ID:	**40430**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**7/29/2016**	SeqNo:	**1704832**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	0.77	5.0									J
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	1.4	5.0									J

Sample ID:	**LCS-40430**	Samp Type:	**LCS**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**7/14/2016**	RunNo:	**87746**
Client ID:	**LCSS**	Batch ID:	**40430**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**7/29/2016**	SeqNo:	**1704833**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	112	74	119				
Antimony	25	1.0	25	0	99.0	79	114				
Arsenic	24	2.0	25	0	96.5	82	111				
Barium	24	10	25	0	94.1	83	113				
Beryllium	25	0.25	25	0	98.1	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40430

Sample ID:	LCS-40430	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87746
Client ID:	LCSS	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	7/29/2016	SeqNo:	1704833

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	94.0	82	113				
Calcium	240	50	250	0	97.5	81	116				
Chromium	24	0.50	25	0	96.7	85	113				
Cobalt	25	1.0	25	0	99.8	85	112				
Copper	26	5.0	25	0	103	81	117				
Iron	230	15	250	0	92.2	81	118				
Lead	25	5.0	25	0	98.6	81	112				
Magnesium	230	50	250	0	91.9	78	115				
Manganese	26	1.0	25	0	104	84	114				
Nickel	24	5.0	25	0	94.4	83	113				
Potassium	240	20	250	0	94.3	81	116				
Selenium	25	2.0	25	0	99.4	78	111				
Silver	23	1.0	25	0	90.9	82	112				
Sodium	230	50	250	0	90.6	83	118				
Vanadium	24	2.5	25	0	97.7	82	114				
Zinc	25	5.0	25	0	100	82	113				

Sample ID:	1606652-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87746
Client ID:	ZZZZZZ	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	7/29/2016	SeqNo:	1704835

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	4,900	3.4	17	5,000	-596	74	119				Q
Antimony	19	0.68	17	3.0	91.2	79	114				
Arsenic	18	1.4	17	1.3	96.0	82	111				
Barium	42	6.8	17	27	84.9	83	113				
Beryllium	17	0.17	17	0.014	97.9	83	113				
Cadmium	16	0.17	17	0	94.8	82	113				
Calcium	1,100	34	170	780	214	81	116				Q
Cobalt	19	0.68	17	3.2	92.1	85	112				
Copper	44	3.4	17	26	108	81	117				
Iron	9,900	10	170	9,300	393	81	118				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40430

Sample ID:	1606652-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87746
Client ID:	ZZZZZZ	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	7/29/2016	SeqNo:	1704835

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	17	3.4	17	0.97	92.2	81	112				
Magnesium	1,500	34	170	1,500	15.1	78	115				Q
Manganese	210	0.68	17	220	-68.9	84	114				JQ
Nickel	21	3.4	17	5.9	90.3	83	113				
Potassium	940	14	170	910	18.0	81	116				Q
Selenium	15	1.4	17	0	87.2	78	111				
Silver	16	0.68	17	0	91.6	82	112				
Sodium	300	34	170	130	104	83	118				
Vanadium	34	1.7	17	17	98.9	82	114				

Sample ID:	1606652-005FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87746
Client ID:	ZZZZZZ	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	7/29/2016	SeqNo:	1704836

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	4,900	3.4	17	5,000	-816	74	119	4,900	0.741	20	Q
Antimony	18	0.67	17	3.0	91.3	79	114	19	0.461	20	
Arsenic	18	1.3	17	1.3	96.9	82	111	18	0.205	20	
Barium	41	6.7	17	27	85.2	83	113	42	0.115	20	
Beryllium	17	0.17	17	0.014	98.9	83	113	17	0.316	20	
Cadmium	16	0.17	17	0	95.4	82	113	16	0.00560	20	
Calcium	990	34	170	780	129	81	116	1,100	13.6	20	Q
Cobalt	19	0.67	17	3.2	91.5	85	112	19	1.13	20	
Copper	41	3.4	17	26	91.0	81	117	44	7.00	20	
Iron	8,600	10	170	9,300	-369	81	118	9,900	13.9	20	JQ
Lead	17	3.4	17	0.97	92.4	81	112	17	0.413	20	
Magnesium	1,500	34	170	1,500	-4.38	78	115	1,500	2.17	20	Q
Manganese	210	0.67	17	220	-46.7	84	114	210	1.81	20	JQ
Nickel	21	3.4	17	5.9	90.3	83	113	21	0.487	20	
Potassium	930	13	170	910	12.3	81	116	940	1.04	20	Q
Selenium	14	1.3	17	0	83.0	78	111	15	5.67	20	
Silver	16	0.67	17	0	92.7	82	112	16	0.558	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40430

Sample ID:	1606652-005FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87746
Client ID:	ZZZZZZ	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	7/29/2016	SeqNo:	1704836

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Sodium	320	34	170	130	112	83	118	300	3.97	20	
Vanadium	31	1.7	17	17	84.0	82	114	34	8.12	20	

Sample ID:	1606652-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87767
Client ID:	ZZZZZZ	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	8/1/2016	SeqNo:	1705548

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	25	0.34	17	9.2	92.5	85	113				
Zinc	25	3.4	17	11	83.2	82	113				

Sample ID:	1606652-005FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87767
Client ID:	ZZZZZZ	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	8/1/2016	SeqNo:	1705550

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	25	0.34	17	9.2	91.4	85	113	25	1.12	20	
Zinc	25	3.4	17	11	83.8	82	113	25	0.0281	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40434**

Sample ID:	MB-40434	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	PBS	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697390

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	LCS-40434	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	LCSS	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697391

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.7	0.20	10	0	97.1	83	118				

Sample ID:	1606652-005FMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697393

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.1	0.13	6.6	0.077	92.4	83	118				

Sample ID:	1606652-005FMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697394

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.4	0.13	6.5	0.077	97.5	83	118	6.1	4.65	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86902**

Sample ID:	**1606606-002B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/23/2016**	RunNo:	**86902**	
Client ID:	**ZZZZZZ**	Batch ID:	**R86902**	TestNo:	**D2216**			Analysis Date:	**6/23/2016**	SeqNo:	**1686218**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	8.7	1.0						8.680	0.593	20		

Sample ID:	**1606652-009G DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/23/2016**	RunNo:	**86902**	
Client ID:	**ZZZZZZ**	Batch ID:	**R86902**	TestNo:	**D2216**			Analysis Date:	**6/23/2016**	SeqNo:	**1686232**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	5.9	1.0						5.879	1.16	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86985**

Sample ID:	**1606603-018A DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/27/2016**	RunNo:	**86985**
Client ID:	**ZZZZZZ**	Batch ID:	**R86985**	TestNo:	**D2216**			Analysis Date:	**6/27/2016**	SeqNo:	**1687706**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	11	1.0						10.87	1.02	20	

Sample ID:	**1606605-003B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/27/2016**	RunNo:	**86985**
Client ID:	**BG04-SB02-05LR1**	Batch ID:	**R86985**	TestNo:	**D2216**			Analysis Date:	**6/27/2016**	SeqNo:	**1687718**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	17	1.0						16.62	0.276	20	

RTI Laboratories - Definitions and Acronyms

WO#: 1606605

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

16 0616 05

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/16/16-01
Batch May16

Database Information | Other Sample Information | Analysis

	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	BG04-SB01	04	05	N	1	BG04-SB01-05	6/15/16	1140	SO	2	046							1		1			
2	BG04-SB01	09	10	N		BG04-SB01-10		1145	SO														
3	BG04-SB02	04	05	N		BG04-SB02-05		1220	SO														
3	BG04-SB02	04	05	MS	@	BG04-SB02-05MS		1220	SO														matrix spike
3	BG04-SB02	04	05	SD		BG04-SB02-05MSD		1220	SO														Spike Dup.
4	BG04-SB02	09	10	N		BG04-SB02-10		1225	SO														
5	BG04-SB03	04	05	N		BG04-SB03-05		1205	SO														
6	BG04-SB03	09	10	N		BG04-SB03-10		1210	SO														
7	BG04-SB04	04	05	N		BG04-SB04-05		1115	SO														
8	BG04-SB04	04	05	FD		BG04-SB04-05DUP		1115	SO														Field Dup
9	BG04-SB04	09	10	N		BG04-SB04-10		1120	SO														
10	BG04-SS01	00	01	N		BG04-SS01-01		1135	SO														
11	BG04-SS02	00	01	N		BG04-SS02-01		1215	SO														

		Date	Time		Date	Time
1. Relinquished By / Company	Amanda Martin AECOM	6/16/16	1200	1. Received By / Company	XFER TO FEDEX	6/16/16	1200
2. Relinquished By / Company				2. Received By / Company	Melissa Dwyer RTI	6/17/16	0830
3. Relinquished By / Company				3. Received By / Company			

Comments

Shipment Method/Airbill No. 8105 0267 5715

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

J713 ~~BG04~~

1606605

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061616-01
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
BG04-SS03	00	01	N	1	BG04-SS03-01	6/15/16	1200	SS	2	0.46							1		1			
BG04-SS04	00	01	N	1	BG04-SS04-01		1110	SS														
BG04-SS05	00	01	N	1	BG04-SS05-01		1120	SS														
BG04-SS06	00	01	N	1	BG04-SS06-01		1125	SS														
BG04-SS07	00	01	N	1	BG04-SS07-01		1155	SS														
H15-SB01	24	25	N	1	H15-SB01-25		1530	SO														
H15-SB02	21	22	N	1	H15-SB02-22		1415	SO														
H15-SB02	21	22	MS	1	H15-SB02-22MS		1415	SO														matrix spike
H15-SB02	21	22	SD	1	H15-SB02-22MSD		1415	SO														spike Duplicate
H15-SB03	17	18	N	1	H15-SB03-18		1345	SO														
H15-SS01	00	01	N	1	H15-SS01-01		1525	SS														
H15-SS02	00	01	N	1	H15-SS02-01		1410	SS														
H15-SS03	00	01	N	1	H15-SS03-01		1340	SS														

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/16/16	Time: 1500	1. Received By / Company: XFER TO FEDEX	Date: 6/16/16	Time: 1700
2. Relinquished By / Company	Date	Time	2. Received By / Company: Vivian Soltan / RTI	Date: 6/17/16	Time: 0850
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No.: 8105 0202 5205

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

J713 H15 samples on WO# 1606606

Cooler #2

046

Cooler ID J7B

COC ID 06/16/16-01

CUSTODY SEALS

Date 6/16/16

Signature

CUSTODY SEALS

Date 6/16/16

Signature

tracking 810302025015

temp 0.4°C

047

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Monday, August 08, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606606

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606606-001A	H15-SB01-25		6/15/2016 3:30 PM	6/17/2016 9:50 AM	Soil
1606606-001B	H15-SB01-25		6/15/2016 3:30 PM	6/17/2016 9:50 AM	Soil
1606606-002A	H15-SB02-22		6/15/2016 2:15 PM	6/17/2016 9:50 AM	Soil
1606606-002B	H15-SB02-22		6/15/2016 2:15 PM	6/17/2016 9:50 AM	Soil
1606606-003A	H15-SB03-18		6/15/2016 1:45 PM	6/17/2016 9:50 AM	Soil
1606606-003B	H15-SB03-18		6/15/2016 1:45 PM	6/17/2016 9:50 AM	Soil
1606606-004A	H15-SS01-01		6/15/2016 3:25 PM	6/17/2016 9:50 AM	Soil
1606606-004B	H15-SS01-01		6/15/2016 3:25 PM	6/17/2016 9:50 AM	Soil
1606606-005A	H15-SS02-01		6/15/2016 2:10 PM	6/17/2016 9:50 AM	Soil
1606606-005B	H15-SS02-01		6/15/2016 2:10 PM	6/17/2016 9:50 AM	Soil
1606606-006A	H15-SS03-01		6/15/2016 1:40 PM	6/17/2016 9:50 AM	Soil
1606606-006B	H15-SS03-01		6/15/2016 1:40 PM	6/17/2016 9:50 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Percent Moisture - ASTM-D2216
Metals, ICP/OES - 6010C
Metals, ICP/MS - 6020A-TL
Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_6010S, Analytical Run No 87450, Batch ID 40376:
Sample 1606606-002BMS: Recoveries for Aluminum, Iron, Manganese, Potassium, Selenium and Zinc exceeded control limits.
Sample 1606606-002BMSD: Recoveries for Aluminum, Iron, Magnesium, Manganese and Zinc exceeded control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87697, Batch ID 40406:
Samples 1606605-003B MS/MSD: Spike recoveries for multiple analytes were outside the control limits. RPD for Se was outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87792, Batch ID 40406
Sample 1606605-003B MS: Spike recoveries for Chromium and Zinc were outside the control limits.
Sample 1606605-003B MDS: Spike recovery for Zinc were outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87852, Batch ID 40481:
Samples 16066525-014F MS/MSD: Spike recoveries for multiple analytes were outside the control limits. RPD for Se was outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87753, Batch ID R87753:
Sample ID CCV 072616 S7: 1-Methylnaphthalene exceeded criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87753, Batch ID 40291:
Sample ID 1606606-004A: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.
Samples 1606652-014D MS/MSD: Spike, surrogate recoveries and RPDs for several compounds were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87837, Batch ID 40291:
Sample ID 1606606-005A: Surrogate recovery for Terphenyl-d14 were outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 3:30:00 PM
Project:	Camp Hero		
Lab ID:	1606606-001	**Matrix:**	Soil
Client Sample ID:	H15-SB01-25		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,500		52	140	350	mg/Kg-dry	100	7/28/2016 2:31 PM
Antimony	1.7		0.26	0.35	0.70	mg/Kg-dry	1	7/28/2016 1:16 PM
Arsenic	1.0	J	0.50	0.70	1.4	mg/Kg-dry	1	7/28/2016 1:16 PM
Barium	25		0.21	3.5	7.0	mg/Kg-dry	1	7/28/2016 1:16 PM
Beryllium	0.046	J	0.0088	0.035	0.17	mg/Kg-dry	1	7/28/2016 1:16 PM
Cadmium	0.025	J	0.023	0.035	0.17	mg/Kg-dry	1	7/28/2016 1:16 PM
Calcium	410		2.0	7.0	35	mg/Kg-dry	1	7/28/2016 1:16 PM
Chromium	8.2		0.057	0.28	0.35	mg/Kg-dry	1	8/2/2016 12:54 PM
Cobalt	1.7		0.063	0.17	0.70	mg/Kg-dry	1	7/28/2016 1:16 PM
Copper	21		0.29	0.70	3.5	mg/Kg-dry	1	7/28/2016 1:16 PM
Iron	9,000		220	350	1,000	mg/Kg-dry	100	7/28/2016 2:31 PM
Lead	1.9	J	0.43	0.70	3.5	mg/Kg-dry	1	7/28/2016 1:16 PM
Magnesium	1,100		2.4	3.5	35	mg/Kg-dry	1	7/28/2016 1:16 PM
Manganese	120		0.13	0.17	0.70	mg/Kg-dry	1	7/28/2016 1:16 PM
Nickel	4.1		0.20	0.70	3.5	mg/Kg-dry	1	7/28/2016 1:16 PM
Potassium	810		1.6	7.0	14	mg/Kg-dry	1	7/28/2016 1:16 PM
Selenium	1.0	U	0.81	1.0	1.4	mg/Kg-dry	1	7/28/2016 1:16 PM
Silver	0.17	U	0.057	0.17	0.70	mg/Kg-dry	1	7/28/2016 1:16 PM
Sodium	83		1.4	3.5	35	mg/Kg-dry	1	7/28/2016 1:16 PM
Vanadium	12		0.088	0.70	1.7	mg/Kg-dry	1	7/28/2016 1:16 PM
Zinc	9.5		0.27	0.35	3.5	mg/Kg-dry	1	8/2/2016 12:54 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.076	J	0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 2:04 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0044	Y	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
2-Methylnaphthalene	0.0049		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Acenaphthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Acenaphthylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Benz(a)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Benzo(a)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Benzo(b)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Benzo(g,h,i)perylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Benzo(k)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Chrysene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Dibenzo(a,h)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Fluorene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Indeno(1,2,3-cd)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Naphthalene	0.0021		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Phenanthrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM
Pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 10:11 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 3:30:00 PM
Project:	Camp Hero		
Lab ID:	1606606-001	**Matrix:**	Soil
Client Sample ID:	H15-SB01-25		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	83.8			46-115		%Rec	3	7/26/2016 10:11 PM
Surr: Nitrobenzene-d5	90.6			44-125		%Rec	3	7/26/2016 10:11 PM
Surr: Terphenyl-d14	89.4			58-133		%Rec	3	7/26/2016 10:11 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	6.7		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 2:15:00 PM
Project:	Camp Hero		
Lab ID:	1606606-002	**Matrix:**	Soil
Client Sample ID:	H15-SB02-22		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,600		54	140	360	mg/Kg-dry	100	7/18/2016 12:55 PM
Antimony	2.9		0.27	0.36	0.72	mg/Kg-dry	1	7/18/2016 11:42 AM
Arsenic	1.7		0.52	0.72	1.4	mg/Kg-dry	1	7/18/2016 11:42 AM
Barium	38		0.21	3.6	7.2	mg/Kg-dry	1	7/18/2016 11:42 AM
Beryllium	0.072	J	0.0091	0.036	0.18	mg/Kg-dry	1	7/18/2016 11:42 AM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/18/2016 11:42 AM
Calcium	620		2.1	7.2	36	mg/Kg-dry	1	7/18/2016 11:42 AM
Chromium	14		0.059	0.29	0.36	mg/Kg-dry	1	7/18/2016 11:42 AM
Cobalt	3.0		0.064	0.18	0.72	mg/Kg-dry	1	7/18/2016 11:42 AM
Copper	29		0.30	0.72	3.6	mg/Kg-dry	1	7/18/2016 11:42 AM
Iron	12,000	X	22	36	110	mg/Kg-dry	10	7/18/2016 1:19 PM
Lead	2.6	J	0.45	0.72	3.6	mg/Kg-dry	1	7/18/2016 11:42 AM
Magnesium	2,400	X	25	36	360	mg/Kg-dry	10	7/18/2016 1:19 PM
Manganese	170		0.13	0.18	0.72	mg/Kg-dry	1	7/18/2016 11:42 AM
Nickel	6.8		0.20	0.72	3.6	mg/Kg-dry	1	7/18/2016 11:42 AM
Potassium	1,500		1.7	7.2	14	mg/Kg-dry	1	7/18/2016 11:42 AM
Selenium	1.1	U	0.83	1.1	1.4	mg/Kg-dry	1	7/18/2016 11:42 AM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/18/2016 11:42 AM
Sodium	110		1.5	3.6	36	mg/Kg-dry	1	7/18/2016 11:42 AM
Vanadium	18		0.091	0.72	1.8	mg/Kg-dry	1	7/18/2016 11:42 AM
Zinc	17		0.28	0.36	3.6	mg/Kg-dry	1	7/18/2016 11:42 AM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.16		0.034	0.035	0.14	mg/Kg-dry	10	7/12/2016 12:28 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0044	Y	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
2-Methylnaphthalene	0.0048		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Acenaphthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Acenaphthylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Benz(a)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Benzo(a)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Benzo(b)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Benzo(k)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Chrysene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Fluorene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Indeno(1,2,3-cd)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Naphthalene	0.0026		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Phenanthrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM
Pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 4:08 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 2:15:00 PM
Project:	Camp Hero		
Lab ID:	1606606-002	**Matrix:**	Soil
Client Sample ID:	H15-SB02-22		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	83.5			46-115		%Rec	3	7/26/2016 4:08 PM
Surr: Nitrobenzene-d5	86.8			44-125		%Rec	3	7/26/2016 4:08 PM
Surr: Terphenyl-d14	91.1			58-133		%Rec	3	7/26/2016 4:08 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	8.7		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 1:45:00 PM
Project: Camp Hero
Lab ID: 1606606-003 **Matrix:** Soil
Client Sample ID: H15-SB03-18

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,900		53	140	350	mg/Kg-dry	100	8/4/2016 1:35 PM
Antimony	2.1		0.27	0.35	0.71	mg/Kg-dry	1	8/4/2016 12:14 PM
Arsenic	1.5		0.51	0.71	1.4	mg/Kg-dry	1	8/4/2016 12:14 PM
Barium	30		0.21	3.5	7.1	mg/Kg-dry	1	8/4/2016 12:14 PM
Beryllium	0.20		0.0090	0.035	0.18	mg/Kg-dry	1	8/4/2016 12:14 PM
Cadmium	0.033	J	0.023	0.035	0.18	mg/Kg-dry	1	8/4/2016 12:14 PM
Calcium	510		2.1	7.1	35	mg/Kg-dry	1	8/4/2016 12:14 PM
Chromium	9.7		0.058	0.28	0.35	mg/Kg-dry	1	8/4/2016 12:14 PM
Cobalt	2.5		0.064	0.18	0.71	mg/Kg-dry	1	8/4/2016 12:14 PM
Copper	26		0.29	0.71	3.5	mg/Kg-dry	1	8/4/2016 12:14 PM
Iron	9,700		22	35	110	mg/Kg-dry	10	8/4/2016 1:06 PM
Lead	2.5	J	0.44	0.71	3.5	mg/Kg-dry	1	8/4/2016 12:14 PM
Magnesium	1,600		2.5	3.5	35	mg/Kg-dry	1	8/4/2016 12:14 PM
Manganese	150		0.13	0.18	0.71	mg/Kg-dry	1	8/4/2016 12:14 PM
Nickel	6.3		0.20	0.71	3.5	mg/Kg-dry	1	8/4/2016 12:14 PM
Potassium	1,000		1.7	7.1	14	mg/Kg-dry	1	8/4/2016 12:14 PM
Selenium	1.1	U	0.83	1.1	1.4	mg/Kg-dry	1	8/4/2016 12:14 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	8/4/2016 12:14 PM
Sodium	76		1.4	3.5	35	mg/Kg-dry	1	8/4/2016 12:14 PM
Vanadium	17		0.090	0.71	1.8	mg/Kg-dry	1	8/4/2016 12:14 PM
Zinc	13		0.27	0.35	3.5	mg/Kg-dry	1	8/4/2016 12:14 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.11	J	0.035	0.036	0.14	mg/Kg-dry	10	7/26/2016 1:30 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0044		0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
2-Methylnaphthalene	0.0050		0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Benz(a)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Benzo(a)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Benzo(b)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Benzo(g,h,i)perylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Benzo(k)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Chrysene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Fluorene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Indeno(1,2,3-cd)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Naphthalene	0.0022		0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Phenanthrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM
Pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	8/3/2016 9:47 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:45:00 PM
Project:	Camp Hero		
Lab ID:	1606606-003	**Matrix:**	Soil
Client Sample ID:	H15-SB03-18		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	68.9			46-115		%Rec	1	8/3/2016 9:47 PM
Surr: Nitrobenzene-d5	80.8			44-125		%Rec	1	8/3/2016 9:47 PM
Surr: Terphenyl-d14	75.3			58-133		%Rec	1	8/3/2016 9:47 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	7.9		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 3:25:00 PM
Project:	Camp Hero		
Lab ID:	1606606-004	**Matrix:**	Soil
Client Sample ID:	H15-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	11,000		56	150	370	mg/Kg-dry	100	7/28/2016 2:33 PM
Antimony	1.9		0.28	0.37	0.75	mg/Kg-dry	1	7/28/2016 1:18 PM
Arsenic	1.3	J	0.54	0.75	1.5	mg/Kg-dry	1	7/28/2016 1:18 PM
Barium	20		0.22	3.7	7.5	mg/Kg-dry	1	7/28/2016 1:18 PM
Beryllium	0.26		0.0095	0.037	0.19	mg/Kg-dry	1	7/28/2016 1:18 PM
Cadmium	0.20		0.025	0.037	0.19	mg/Kg-dry	1	7/28/2016 1:18 PM
Calcium	420		2.2	7.5	37	mg/Kg-dry	1	7/28/2016 1:18 PM
Chromium	10		0.061	0.30	0.37	mg/Kg-dry	1	8/2/2016 12:56 PM
Cobalt	1.9		0.067	0.19	0.75	mg/Kg-dry	1	7/28/2016 1:18 PM
Copper	26		0.31	0.75	3.7	mg/Kg-dry	1	7/28/2016 1:18 PM
Iron	11,000		230	370	1,100	mg/Kg-dry	100	7/28/2016 2:33 PM
Lead	5.9		0.46	0.75	3.7	mg/Kg-dry	1	7/28/2016 1:18 PM
Magnesium	1,000		2.6	3.7	37	mg/Kg-dry	1	7/28/2016 1:18 PM
Manganese	120		0.14	0.19	0.75	mg/Kg-dry	1	7/28/2016 1:18 PM
Nickel	6.1		0.21	0.75	3.7	mg/Kg-dry	1	7/28/2016 1:18 PM
Potassium	460		1.7	7.5	15	mg/Kg-dry	1	7/28/2016 1:18 PM
Selenium	1.1	U	0.87	1.1	1.5	mg/Kg-dry	1	7/28/2016 1:18 PM
Silver	0.19	U	0.061	0.19	0.75	mg/Kg-dry	1	7/28/2016 1:18 PM
Sodium	79		1.5	3.7	37	mg/Kg-dry	1	7/28/2016 1:18 PM
Vanadium	17		0.095	0.75	1.9	mg/Kg-dry	1	7/28/2016 1:18 PM
Zinc	21		0.29	0.37	3.7	mg/Kg-dry	1	8/2/2016 12:56 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.070	J	0.036	0.037	0.15	mg/Kg-dry	10	7/15/2016 2:05 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0024	Y	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
2-Methylnaphthalene	0.0026		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Acenaphthene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Acenaphthylene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Benz(a)anthracene	0.0039		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Benzo(a)pyrene	0.0041		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Benzo(b)fluoranthene	0.0062		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Benzo(g,h,i)perylene	0.0028		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Benzo(k)fluoranthene	0.0029		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Chrysene	0.0045		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Dibenzo(a,h)anthracene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Fluoranthene	0.0092		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Fluorene	0.00076	U	0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Indeno(1,2,3-cd)pyrene	0.0028		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Naphthalene	0.0020		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Phenanthrene	0.0042		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM
Pyrene	0.0078		0.00076	0.00076	0.00076	mg/Kg-dry	1	7/26/2016 11:05 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 3:25:00 PM
Project:	Camp Hero		
Lab ID:	1606606-004	**Matrix:**	Soil
Client Sample ID:	H15-SS01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	27.0	Q		46-115		%Rec	1	7/26/2016 11:05 PM
Surr: Nitrobenzene-d5	29.1	Q		44-125		%Rec	1	7/26/2016 11:05 PM
Surr: Terphenyl-d14	28.6	Q		58-133		%Rec	1	7/26/2016 11:05 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	12		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 2:10:00 PM
Project:	Camp Hero		
Lab ID:	1606606-005	**Matrix:**	Soil
Client Sample ID:	H15-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		55	150	370	mg/Kg-dry	100	7/28/2016 2:35 PM
Antimony	6.6		0.28	0.37	0.74	mg/Kg-dry	1	7/28/2016 1:19 PM
Arsenic	2.5		0.54	0.74	1.5	mg/Kg-dry	1	7/28/2016 1:19 PM
Barium	31		0.22	3.7	7.4	mg/Kg-dry	1	7/28/2016 1:19 PM
Beryllium	0.17	J	0.0094	0.037	0.18	mg/Kg-dry	1	7/28/2016 1:19 PM
Cadmium	0.049	J	0.024	0.037	0.18	mg/Kg-dry	1	7/28/2016 1:19 PM
Calcium	410		2.2	7.4	37	mg/Kg-dry	1	7/28/2016 1:19 PM
Chromium	14		0.061	0.30	0.37	mg/Kg-dry	1	8/2/2016 12:57 PM
Cobalt	6.5		0.066	0.18	0.74	mg/Kg-dry	1	7/28/2016 1:19 PM
Copper	35		0.31	0.74	3.7	mg/Kg-dry	1	7/28/2016 1:19 PM
Iron	14,000		23	37	110	mg/Kg-dry	10	7/28/2016 2:34 PM
Lead	5.2		0.46	0.74	3.7	mg/Kg-dry	1	7/28/2016 1:19 PM
Magnesium	2,200		26	37	370	mg/Kg-dry	10	7/28/2016 2:34 PM
Manganese	400		1.4	1.8	7.4	mg/Kg-dry	10	7/28/2016 2:34 PM
Nickel	9.4		0.21	0.74	3.7	mg/Kg-dry	1	7/28/2016 1:19 PM
Potassium	1,100		1.7	7.4	15	mg/Kg-dry	1	7/28/2016 1:19 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/28/2016 1:19 PM
Silver	0.18	U	0.060	0.18	0.74	mg/Kg-dry	1	7/28/2016 1:19 PM
Sodium	71		1.5	3.7	37	mg/Kg-dry	1	7/28/2016 1:19 PM
Vanadium	22		0.094	0.74	1.8	mg/Kg-dry	1	7/28/2016 1:19 PM
Zinc	17		0.29	0.37	3.7	mg/Kg-dry	1	8/2/2016 12:57 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.16		0.036	0.037	0.15	mg/Kg-dry	10	7/15/2016 2:06 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0032		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
2-Methylnaphthalene	0.0036		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Benz(a)anthracene	0.0040		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Benzo(a)pyrene	0.0044		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Benzo(b)fluoranthene	0.0068		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Benzo(g,h,i)perylene	0.0023		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Benzo(k)fluoranthene	0.0031		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Chrysene	0.0047		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Fluoranthene	0.010		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Fluorene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Indeno(1,2,3-cd)pyrene	0.0023		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Naphthalene	0.0023		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Phenanthrene	0.0045		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM
Pyrene	0.0088		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:14 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 2:10:00 PM
Project:	Camp Hero		
Lab ID:	1606606-005	**Matrix:**	Soil
Client Sample ID:	H15-SS02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	46.7			46-115		%Rec	1	8/3/2016 10:14 PM
Surr: Nitrobenzene-d5	58.5			44-125		%Rec	1	8/3/2016 10:14 PM
Surr: Terphenyl-d14	52.1	Q		58-133		%Rec	1	8/3/2016 10:14 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:40:00 PM
Project:	Camp Hero		
Lab ID:	1606606-006	**Matrix:**	Soil
Client Sample ID:	H15-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,800		55	150	370	mg/Kg-dry	100	7/28/2016 2:37 PM
Antimony	1.6		0.28	0.37	0.74	mg/Kg-dry	1	7/28/2016 1:38 PM
Arsenic	1.5		0.54	0.74	1.5	mg/Kg-dry	1	7/28/2016 1:38 PM
Barium	13		0.22	3.7	7.4	mg/Kg-dry	1	7/28/2016 1:38 PM
Beryllium	0.11	J	0.0094	0.037	0.18	mg/Kg-dry	1	7/28/2016 1:38 PM
Cadmium	0.038	J	0.024	0.037	0.18	mg/Kg-dry	1	7/28/2016 1:38 PM
Calcium	330		2.2	7.4	37	mg/Kg-dry	1	7/28/2016 1:38 PM
Chromium	8.1		0.061	0.30	0.37	mg/Kg-dry	1	8/2/2016 1:10 PM
Cobalt	1.6		0.066	0.18	0.74	mg/Kg-dry	1	7/28/2016 1:38 PM
Copper	22		0.31	0.74	3.7	mg/Kg-dry	1	7/28/2016 1:38 PM
Iron	10,000		230	370	1,100	mg/Kg-dry	100	7/28/2016 2:37 PM
Lead	6.2		0.46	0.74	3.7	mg/Kg-dry	1	7/28/2016 1:38 PM
Magnesium	700		2.6	3.7	37	mg/Kg-dry	1	7/28/2016 1:38 PM
Manganese	77		0.14	0.18	0.74	mg/Kg-dry	1	7/28/2016 1:38 PM
Nickel	3.7		0.21	0.74	3.7	mg/Kg-dry	1	7/28/2016 1:38 PM
Potassium	420		1.7	7.4	15	mg/Kg-dry	1	7/28/2016 1:38 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/28/2016 1:38 PM
Silver	0.18	U	0.060	0.18	0.74	mg/Kg-dry	1	7/28/2016 1:38 PM
Sodium	48		1.5	3.7	37	mg/Kg-dry	1	7/28/2016 1:38 PM
Vanadium	16		0.094	0.74	1.8	mg/Kg-dry	1	7/28/2016 1:38 PM
Zinc	13		0.29	0.37	3.7	mg/Kg-dry	1	8/2/2016 1:10 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.065	J	0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 2:15 PM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0048		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
2-Methylnaphthalene	0.0054		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Benz(a)anthracene	0.0040		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Benzo(a)pyrene	0.0042		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Benzo(b)fluoranthene	0.0069		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Benzo(g,h,i)perylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Benzo(k)fluoranthene	0.0030		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Chrysene	0.0047		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Fluoranthene	0.0098		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Fluorene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Indeno(1,2,3-cd)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Naphthalene	0.0039		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Phenanthrene	0.0049		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM
Pyrene	0.0082		0.00074	0.00074	0.00074	mg/Kg-dry	1	8/3/2016 10:42 PM

RTI Laboratories - Analytical Report

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 1:40:00 PM
Project:	Camp Hero		
Lab ID:	1606606-006	**Matrix:**	Soil
Client Sample ID:	H15-SS03-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	69.9			46-115		%Rec	1	8/3/2016 10:42 PM
Surr: Nitrobenzene-d5	83.1			44-125		%Rec	1	8/3/2016 10:42 PM
Surr: Terphenyl-d14	76.5			58-133		%Rec	1	8/3/2016 10:42 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	10		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - DATES REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606606-001A	H15-SB01-25	6/15/2016 3:30 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 10:11 PM
1606606-001B	H15-SB01-25	6/15/2016 3:30 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:04 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:16 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:31 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 12:54 PM
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606606-002A	H15-SB02-22	6/15/2016 2:15 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 4:08 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 10:38 PM
1606606-002B	H15-SB02-22	6/15/2016 2:15 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/8/2016 11:04 AM	7/12/2016 12:28 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 11:42 AM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 12:55 PM
				SW_6010S-Metals, ICP/OES		7/8/2016 9:41 AM	7/18/2016 1:19 PM
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606606-003A	H15-SB03-18	6/15/2016 1:45 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	8/3/2016 9:47 PM
1606606-003B	H15-SB03-18	6/15/2016 1:45 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/25/2016 1:07 PM	7/26/2016 1:30 PM
				SW_6010S-Metals, ICP/OES		7/19/2016 12:52 PM	8/4/2016 12:14 PM
				SW_6010S-Metals, ICP/OES		7/19/2016 12:52 PM	8/4/2016 1:06 PM
				SW_6010S-Metals, ICP/OES		7/19/2016 12:52 PM	8/4/2016 1:35 PM
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606606-004A	H15-SS01-01	6/15/2016 3:25 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 11:05 PM
1606606-004B	H15-SS01-01	6/15/2016 3:25 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:05 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:18 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:33 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 12:56 PM

RTI Laboratories - DATES REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606606-004B	H15-SS01-01	6/15/2016 3:25 PM	Soil				
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606606-005A	H15-SS02-01	6/15/2016 2:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	8/3/2016 10:14 PM
1606606-005B	H15-SS02-01	6/15/2016 2:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:06 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:19 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:34 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:35 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 12:57 PM
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606606-006A	H15-SS03-01	6/15/2016 1:40 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	8/3/2016 10:42 PM
1606606-006B	H15-SS03-01	6/15/2016 1:40 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:15 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:38 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:37 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:10 PM
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	**MB-40291**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87753**
Client ID:	**PBS**	Batch ID:	**40291**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/26/2016**	SeqNo:	**1705092**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									UY
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benz(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	14		16.57		86.7	46	115				
Surr: Nitrobenzene-d5	16		16.57		93.9	44	125				
Surr: Terphenyl-d14	16		16.57		96.2	58	133				

Sample ID:	**LCS-40291**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87753**
Client ID:	**LCSS**	Batch ID:	**40291**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/26/2016**	SeqNo:	**1705093**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.0093	0.00067	0.013	0	69.7	43	111				Y
2-Methylnaphthalene	0.0085	0.00067	0.013	0	64.2	39	114				
Acenaphthene	0.0086	0.00067	0.013	0	64.6	44	111				
Acenaphthylene	0.0084	0.00067	0.013	0	63.3	39	116				
Anthracene	0.0088	0.00067	0.013	0	66.6	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID: **LCS-40291** Samp Type: **LCS** Test Code: **SW_8270S-SIM** Units: **mg/Kg** Prep Date: **6/29/2016** RunNo: **87753**

Client ID: **LCSS** Batch ID: **40291** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/26/2016** SeqNo: **1705093**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.0097	0.00067	0.013	0	73.0	54	122				
Benzo(a)pyrene	0.0089	0.00067	0.013	0	67.0	50	125				
Benzo(b)fluoranthene	0.0097	0.00067	0.013	0	72.9	53	128				
Benzo(g,h,i)perylene	0.0091	0.00067	0.013	0	68.8	49	127				
Benzo(k)fluoranthene	0.010	0.00067	0.013	0	74.9	56	123				
Chrysene	0.0096	0.00067	0.013	0	71.9	57	118				
Dibenzo(a,h)anthracene	0.0092	0.00067	0.013	0	69.5	50	129				
Fluoranthene	0.0096	0.00067	0.013	0	72.0	55	119				
Fluorene	0.0085	0.00067	0.013	0	63.6	47	114				
Indeno(1,2,3-cd)pyrene	0.0091	0.00067	0.013	0	68.8	49	130				
Naphthalene	0.0079	0.00067	0.013	0	59.7	38	111				
Phenanthrene	0.0088	0.00067	0.013	0	66.2	49	113				
Pyrene	0.0094	0.00067	0.013	0	71.0	55	117				
Surr: 2-Fluorobiphenyl	14		16.62		87.2	46	115				
Surr: Nitrobenzene-d5	16		16.62		97.9	44	125				
Surr: Terphenyl-d14	18		16.62		106	58	133				

Sample ID: **1606652-005DMS** Samp Type: **MS** Test Code: **SW_8270S-SIM** Units: **mg/Kg-dry** Prep Date: **6/29/2016** RunNo: **87753**

Client ID: **ZZZZZZ** Batch ID: **40291** TestNo: **SW8270C** **SW3550C** Analysis Date: **7/26/2016** SeqNo: **1705095**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.0020	0.014	0	96.1	43	111				Y
2-Methylnaphthalene	0.013	0.0020	0.014	0	93.1	39	114				
Acenaphthene	0.0095	0.0020	0.014	0	69.7	44	111				
Acenaphthylene	0.0089	0.0020	0.014	0	65.4	39	116				
Anthracene	0.0095	0.0020	0.014	0	69.7	50	114				
Benz(a)anthracene	0.011	0.0020	0.014	0	77.5	54	122				
Benzo(a)pyrene	0.0088	0.0020	0.014	0	64.6	50	125				
Benzo(b)fluoranthene	0.011	0.0020	0.014	0	78.7	53	128				
Benzo(g,h,i)perylene	0.0094	0.0020	0.014	0	69.0	49	127				
Benzo(k)fluoranthene	0.011	0.0020	0.014	0	78.0	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	1606652-005DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705095

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.0099	0.0020	0.014	0	72.8	57	118				
Dibenzo(a,h)anthracene	0.0090	0.0020	0.014	0	66.0	50	129				
Fluoranthene	0.011	0.0020	0.014	0.0021	67.9	55	119				
Fluorene	0.0092	0.0020	0.014	0	67.7	47	114				
Indeno(1,2,3-cd)pyrene	0.0094	0.0020	0.014	0	69.0	49	130				
Naphthalene	0.010	0.0020	0.014	0	74.4	38	111				
Phenanthrene	0.010	0.0020	0.014	0	74.5	49	113				
Pyrene	0.011	0.0020	0.014	0	80.0	55	117				
Surr: 2-Fluorobiphenyl	17		16.98		98.4	46	115				
Surr: Nitrobenzene-d5	18		16.98		107	44	125				
Surr: Terphenyl-d14	18		16.98		104	58	133				

Sample ID:	1606652-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705096

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.014	0.0020	0.013	0	104	43	111	0.013	6.74	25	Y
2-Methylnaphthalene	0.013	0.0020	0.013	0	99.7	39	114	0.013	5.74	25	
Acenaphthene	0.011	0.0020	0.013	0	81.9	44	111	0.0095	15.1	25	
Acenaphthylene	0.010	0.0020	0.013	0	77.9	39	116	0.0089	16.3	25	
Anthracene	0.011	0.0020	0.013	0	83.9	50	114	0.0095	17.4	25	
Benz(a)anthracene	0.012	0.0020	0.013	0	90.6	54	122	0.011	14.5	25	
Benzo(a)pyrene	0.010	0.0020	0.013	0	77.3	50	125	0.0088	16.9	25	
Benzo(b)fluoranthene	0.013	0.0020	0.013	0	96.1	53	128	0.011	18.7	25	
Benzo(g,h,i)perylene	0.011	0.0020	0.013	0	80.9	49	127	0.0094	14.8	25	
Benzo(k)fluoranthene	0.012	0.0020	0.013	0	86.4	56	123	0.011	9.11	25	
Chrysene	0.011	0.0020	0.013	0	84.0	57	118	0.0099	13.2	25	
Dibenzo(a,h)anthracene	0.010	0.0020	0.013	0	76.6	50	129	0.0090	13.8	25	
Fluoranthene	0.013	0.0020	0.013	0.0021	83.6	55	119	0.011	16.4	25	
Fluorene	0.011	0.0020	0.013	0	79.3	47	114	0.0092	14.8	25	
Indeno(1,2,3-cd)pyrene	0.011	0.0020	0.013	0	80.9	49	130	0.0094	14.8	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	1606652-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705096

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.011	0.0020	0.013	0	82.5	38	111	0.010	9.18	25	
Phenanthrene	0.012	0.0020	0.013	0	88.4	49	113	0.010	16.0	25	
Pyrene	0.013	0.0020	0.013	0	93.1	55	117	0.011	14.0	25	
Surr: 2-Fluorobiphenyl	18		16.80		105	46	115		0	25	
Surr: Nitrobenzene-d5	18		16.80		110	44	125		0	25	
Surr: Terphenyl-d14	19		16.80		115	58	133		0	25	

Sample ID:	1606652-014DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705098

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	9.4	0.0026	0.017	5.6	22,400	43	111				JQY
2-Methylnaphthalene	8.7	0.0026	0.017	5.6	18,200	39	114				JQ
Acenaphthene	1.5	0.0026	0.017	0.20	7,740	44	111				JQ
Acenaphthylene	0.48	0.0026	0.017	0.22	1,510	39	116				JQ
Anthracene	4.6	0.0026	0.017	66	-358,000	50	114				JQ
Benz(a)anthracene	0.13	0.0026	0.017	0.14	-60.8	54	122				JQ
Benzo(a)pyrene	0.072	0.0026	0.017	0.071	9.64	50	125				Q
Benzo(b)fluoranthene	0.11	0.0026	0.017	0.12	-52.7	53	128				Q
Benzo(g,h,i)perylene	0.037	0.0026	0.017	0.031	33.5	49	127				Q
Benzo(k)fluoranthene	0.042	0.0026	0.017	0.038	24.5	56	123				Q
Chrysene	0.11	0.0026	0.017	0.11	-11.3	57	118				Q
Dibenzo(a,h)anthracene	0.023	0.0026	0.017	0.013	59.4	50	129				
Fluoranthene	0.47	0.0026	0.017	2.6	-12,200	55	119				JQ
Fluorene	1.5	0.0026	0.017	0.70	4,800	47	114				JQ
Indeno(1,2,3-cd)pyrene	0.037	0.0026	0.017	0.031	33.5	49	130				Q
Naphthalene	5.6	0.0026	0.017	0.40	30,400	38	111				JQ
Phenanthrene	4.3	0.0026	0.017	61	-332,000	49	113				JQ
Pyrene	0.63	0.0026	0.017	0.66	-163	55	117				JQ
Surr: 2-Fluorobiphenyl	95		21.42		443	46	115				Q
Surr: Nitrobenzene-d5	540		21.42		2,500	44	125				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	1606652-014DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705098

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Terphenyl-d14	32		21.42		151	58	133				Q

Sample ID:	1606652-014DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705099

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	13	0.0026	0.017	5.6	43,800	43	111	9.4	32.7	25	JRQY
2-Methylnaphthalene	12	0.0026	0.017	5.6	39,400	39	114	8.7	34.9	25	JRQ
Acenaphthene	0.74	0.0026	0.017	0.20	3,150	44	111	1.5	69.0	25	JRQ
Acenaphthylene	0.20	0.0026	0.017	0.22	-130	39	116	0.48	82.8	25	JRQ
Anthracene	18	0.0026	0.017	66	-281,000	50	114	4.6	116	25	JRQ
Benz(a)anthracene	0.11	0.0026	0.017	0.14	-176	54	122	0.13	16.1	25	Q
Benzo(a)pyrene	0.062	0.0026	0.017	0.071	-51.5	50	125	0.072	15.7	25	Q
Benzo(b)fluoranthene	0.089	0.0026	0.017	0.12	-169	53	128	0.11	20.2	25	Q
Benzo(g,h,i)perylene	0.033	0.0026	0.017	0.031	10.1	49	127	0.037	11.5	25	Q
Benzo(k)fluoranthene	0.040	0.0026	0.017	0.038	12.3	56	123	0.042	5.10	25	Q
Chrysene	0.086	0.0026	0.017	0.11	-146	57	118	0.11	23.8	25	Q
Dibenzo(a,h)anthracene	0.0046	0.0026	0.017	0.013	-50.4	50	129	0.023	134	25	RQ
Fluoranthene	6.6	0.0026	0.017	2.6	23,500	55	119	0.47	174	25	JRQ
Fluorene	0.67	0.0026	0.017	0.70	-181	47	114	1.5	77.8	25	JRQ
Indeno(1,2,3-cd)pyrene	0.033	0.0026	0.017	0.031	10.1	49	130	0.037	11.5	25	Q
Naphthalene	8.1	0.0026	0.017	0.40	44,700	38	111	5.6	36.4	25	JRQ
Phenanthrene	63	0.0026	0.017	61	9,780	49	113	4.3	174	25	JRQ
Pyrene	0.53	0.0026	0.017	0.66	-715	55	117	0.63	16.3	25	JQ
Surr: 2-Fluorobiphenyl	21		21.53		97.3	46	115		0	25	
Surr: Nitrobenzene-d5	510		21.53		2,360	44	125		0	25	JQ
Surr: Terphenyl-d14	32		21.53		147	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	1606606-002AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	H15-SB02-22MS1	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705125

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.0022	0.014	0.0044	62.7	43	111				Y
2-Methylnaphthalene	0.012	0.0022	0.014	0.0048	50.1	39	114				
Acenaphthene	0.011	0.0022	0.014	0	77.0	44	111				
Acenaphthylene	0.011	0.0022	0.014	0	74.8	39	116				
Anthracene	0.012	0.0022	0.014	0	80.5	50	114				
Benz(a)anthracene	0.012	0.0022	0.014	0	84.8	54	122				
Benzo(a)pyrene	0.011	0.0022	0.014	0	78.7	50	125				
Benzo(b)fluoranthene	0.012	0.0022	0.014	0	86.4	53	128				
Benzo(g,h,i)perylene	0.011	0.0022	0.014	0	75.0	49	127				
Benzo(k)fluoranthene	0.012	0.0022	0.014	0	81.2	56	123				
Chrysene	0.011	0.0022	0.014	0	76.5	57	118				
Dibenzo(a,h)anthracene	0.011	0.0022	0.014	0	75.2	50	129				
Fluoranthene	0.012	0.0022	0.014	0	82.4	55	119				
Fluorene	0.011	0.0022	0.014	0	75.0	47	114				
Indeno(1,2,3-cd)pyrene	0.011	0.0022	0.014	0	75.0	49	130				
Naphthalene	0.012	0.0022	0.014	0.0026	63.6	38	111				
Phenanthrene	0.011	0.0022	0.014	0	75.4	49	113				
Pyrene	0.011	0.0022	0.014	0	78.7	55	117				
Surr: 2-Fluorobiphenyl	16		17.90		91.4	46	115				
Surr: Nitrobenzene-d5	17		17.90		93.0	44	125				
Surr: Terphenyl-d14	18		17.90		99.8	58	133				

Sample ID:	1606606-002AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	H15-SB02-22SD1	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705126

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.015	0.0021	0.014	0.0044	76.9	43	111	0.013	13.5	25	Y
2-Methylnaphthalene	0.014	0.0021	0.014	0.0048	64.4	39	114	0.012	15.2	25	
Acenaphthene	0.012	0.0021	0.014	0	85.4	44	111	0.011	9.60	25	
Acenaphthylene	0.012	0.0021	0.014	0	84.0	39	116	0.011	10.7	25	
Anthracene	0.013	0.0021	0.014	0	90.9	50	114	0.012	11.3	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	**1606606-002AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/29/2016**	RunNo:	**87753**
Client ID:	**H15-SB02-22SD1**	Batch ID:	**40291**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/26/2016**	SeqNo:	**1705126**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.013	0.0021	0.014	0	94.5	54	122	0.012	10.0	25	
Benzo(a)pyrene	0.012	0.0021	0.014	0	87.5	50	125	0.011	9.75	25	
Benzo(b)fluoranthene	0.014	0.0021	0.014	0	97.1	53	128	0.012	10.8	25	
Benzo(g,h,i)perylene	0.012	0.0021	0.014	0	82.8	49	127	0.011	9.09	25	
Benzo(k)fluoranthene	0.012	0.0021	0.014	0	86.0	56	123	0.012	4.98	25	
Chrysene	0.012	0.0021	0.014	0	84.3	57	118	0.011	8.86	25	
Dibenzo(a,h)anthracene	0.012	0.0021	0.014	0	83.4	50	129	0.011	9.51	25	
Fluoranthene	0.013	0.0021	0.014	0	94.6	55	119	0.012	13.0	25	
Fluorene	0.012	0.0021	0.014	0	82.8	47	114	0.011	9.16	25	
Indeno(1,2,3-cd)pyrene	0.012	0.0021	0.014	0	82.8	49	130	0.011	9.09	25	
Naphthalene	0.013	0.0021	0.014	0.0026	75.9	38	111	0.012	13.2	25	
Phenanthrene	0.012	0.0021	0.014	0	84.5	49	113	0.011	10.5	25	
Pyrene	0.013	0.0021	0.014	0	88.6	55	117	0.011	11.0	25	
Surr: 2-Fluorobiphenyl	18		17.76		101	46	115		0	25	
Surr: Nitrobenzene-d5	19		17.76		106	44	125		0	25	
Surr: Terphenyl-d14	20		17.76		111	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40376**

Sample ID:	MB-40376	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	PBS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698120

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40376	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	LCSS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698121

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	111	74	119				
Antimony	24	1.0	25	0	96.1	79	114				
Arsenic	22	2.0	25	0	89.4	82	111				
Barium	25	10	25	0	101	83	113				
Beryllium	25	0.25	25	0	99.4	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40376**

Sample ID:	LCS-40376	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	LCSS	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698121

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	90.1	82	113				
Calcium	230	50	250	0	91.9	81	116				
Chromium	25	0.50	25	0	98.1	85	113				
Cobalt	24	1.0	25	0	96.2	85	112				
Copper	25	5.0	25	0	99.4	81	117				
Iron	240	15	250	0	94.9	81	118				
Lead	24	5.0	25	0	95.4	81	112				
Magnesium	240	50	250	0	96.2	78	115				
Manganese	25	1.0	25	0	101	84	114				
Nickel	23	5.0	25	0	93.8	83	113				
Potassium	240	20	250	0	95.6	81	116				
Selenium	23	2.0	25	0	93.3	78	111				
Silver	23	1.0	25	0	90.3	82	112				
Sodium	250	50	250	0	98.0	83	118				
Vanadium	24	2.5	25	0	95.9	82	114				
Zinc	24	5.0	25	0	94.5	82	113				

Sample ID:	1606606-002BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87450
Client ID:	H15-SB02-22MS1	Batch ID:	40376	TestNo:	SW6010B	SW3050B		Analysis Date:	7/18/2016	SeqNo:	1698123

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,100	3.5	18	7,300	4,700	74	119				Q
Antimony	19	0.70	18	2.9	90.2	79	114				
Arsenic	17	1.4	18	1.7	87.1	82	111				
Barium	56	7.0	18	38	102	83	113				
Beryllium	17	0.18	18	0.072	94.8	83	113				
Cadmium	16	0.18	18	0	90.9	82	113				
Calcium	810	35	180	620	104	81	116				
Chromium	31	0.35	18	14	96.6	85	113				
Cobalt	18	0.70	18	3.0	87.2	85	112				
Copper	47	3.5	18	29	99.1	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40376**

Sample ID: **1606606-002BMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/8/2016** RunNo: **87450**

Client ID: **H15-SB02-22MS1** Batch ID: **40376** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/18/2016** SeqNo: **1698123**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,800	11	180	9,700	55.7	81	118				JQ
Lead	18	3.5	18	2.6	89.8	81	112				
Magnesium	2,400	35	180	2,200	113	78	115				J
Manganese	180	0.70	18	170	50.8	84	114				Q
Nickel	23	3.5	18	6.8	90.5	83	113				
Potassium	1,700	14	180	1,500	135	81	116				Q
Selenium	13	1.4	18	0	73.0	78	111				Q
Silver	16	0.70	18	0	90.1	82	112				
Sodium	280	35	180	110	99.2	83	118				
Vanadium	34	1.8	18	18	89.3	82	114				
Zinc	31	3.5	18	17	78.5	82	113				Q

Sample ID: **1606606-002BMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/8/2016** RunNo: **87450**

Client ID: **H15-SB02-22SD1** Batch ID: **40376** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/18/2016** SeqNo: **1698124**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,500	3.5	18	7,300	1,420	74	119	8,100	7.34	20	Q
Antimony	19	0.71	18	2.9	90.6	79	114	19	0.932	20	
Arsenic	18	1.4	18	1.7	90.6	82	111	17	4.13	20	
Barium	53	7.1	18	38	87.3	83	113	56	4.70	20	
Beryllium	18	0.18	18	0.072	98.8	83	113	17	4.73	20	
Cadmium	16	0.18	18	0	91.2	82	113	16	1.05	20	
Calcium	790	35	180	620	95.5	81	116	810	1.65	20	
Chromium	30	0.35	18	14	90.6	85	113	31	3.11	20	
Cobalt	19	0.71	18	3.0	87.6	85	112	18	0.831	20	
Copper	46	3.5	18	29	92.2	81	117	47	2.40	20	
Iron	9,300	11	180	9,700	-230	81	118	9,800	5.27	20	JQ
Lead	19	3.5	18	2.6	90.3	81	112	18	1.01	20	
Magnesium	2,200	35	180	2,200	36.5	78	115	2,400	5.80	20	JQ
Manganese	180	0.71	18	170	81.1	84	114	180	3.04	20	JQ
Nickel	23	3.5	18	6.8	89.9	83	113	23	0.0527	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40376**

Sample ID:	**1606606-002BMSD**	Samp Type:	**MSD**	Test Code:	**SW_6010S**	Units:	**mg/Kg-dry**	Prep Date:	**7/8/2016**	RunNo:	**87450**
Client ID:	**H15-SB02-22SD1**	Batch ID:	**40376**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**7/18/2016**	SeqNo:	**1698124**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,700	14	180	1,500	109	81	116	1,700	2.59	20	
Selenium	14	1.4	18	0	80.9	78	111	13	10.9	20	
Silver	16	0.71	18	0	90.9	82	112	16	1.46	20	
Sodium	290	35	180	110	106	83	118	280	4.30	20	
Vanadium	33	1.8	18	18	86.4	82	114	34	1.26	20	
Zinc	31	3.5	18	17	76.0	82	113	31	1.14	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40379**

Sample ID:	MB-40379	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	PBS	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694102

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	1606606-002BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	H15-SB02-22MS1	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.0	0.14	7.1	0.16	97.0	83	118				

Sample ID:	1606606-002BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	H15-SB02-22SD1	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694109

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.6	0.14	7.0	0.16	106	83	118	7.0	7.60	20	

Sample ID:	LCS-40379	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	87276
Client ID:	LCSS	Batch ID:	40379	TestNo:	SW6020A	SW3050B		Analysis Date:	7/12/2016	SeqNo:	1694110

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	10	0.20	10	0	105	83	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40406**

Sample ID:	**MB-40406**	Samp Type:	**MBLK**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**7/12/2016**	RunNo:	**87697**
Client ID:	**PBS**	Batch ID:	**40406**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**7/28/2016**	SeqNo:	**1703715**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U

Sample ID:	**LCS-40406**	Samp Type:	**LCS**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**7/12/2016**	RunNo:	**87697**
Client ID:	**LCSS**	Batch ID:	**40406**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**7/28/2016**	SeqNo:	**1703716**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	27	5.0	25	0	109	74	119				
Antimony	25	1.0	25	0	100	79	114				
Arsenic	23	2.0	25	0	93.5	82	111				
Barium	26	10	25	0	103	83	113				
Beryllium	25	0.25	25	0	100	83	113				
Cadmium	23	0.25	25	0	91.7	82	113				
Calcium	250	50	250	0	98.5	81	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40406**

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cobalt	24	1.0	25	0	97.5	85	112				
Copper	27	5.0	25	0	107	81	117				
Iron	240	15	250	0	96.1	81	118				
Lead	25	5.0	25	0	99.5	81	112				
Magnesium	250	50	250	0	99.6	78	115				
Manganese	26	1.0	25	0	105	84	114				
Nickel	25	5.0	25	0	100	83	113				
Potassium	260	20	250	0	103	81	116				
Selenium	25	2.0	25	0	101	78	111				
Silver	23	1.0	25	0	91.6	82	112				
Sodium	260	50	250	0	102	83	118				
Vanadium	25	2.5	25	0	98.6	82	114				

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	17,000	3.8	19	15,000	9,960	74	119				Q
Antimony	22	0.76	19	3.2	96.0	79	114				
Arsenic	22	1.5	19	3.7	95.5	82	111				
Barium	59	7.6	19	38	112	83	113				
Beryllium	19	0.19	19	0.17	96.5	83	113				
Cadmium	18	0.19	19	0.063	94.9	82	113				
Calcium	1,000	38	190	620	218	81	116				Q
Cobalt	21	0.76	19	3.4	92.8	85	112				
Copper	71	3.8	19	38	171	81	117				Q
Iron	15,000	11	190	14,000	589	81	118				JQ
Lead	24	3.8	19	5.8	97.2	81	112				
Magnesium	2,600	38	190	2,200	207	78	115				JQ
Manganese	190	0.76	19	160	186	84	114				JQ
Nickel	34	3.8	19	10	126	83	113				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,400	15	190	1,100	158	81	116				Q
Selenium	13	1.5	19	0	67.5	78	111				Q
Silver	18	0.76	19	0	95.5	82	112				
Sodium	320	38	190	91	120	83	118				Q
Vanadium	48	1.9	19	27	111	82	114				J

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703719

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	18,000	3.8	19	15,000	16,700	74	119	17,000	7.32	20	Q
Antimony	20	0.76	19	3.2	90.1	79	114	22	5.92	20	
Arsenic	20	1.5	19	3.7	86.9	82	111	22	8.31	20	
Barium	61	7.6	19	38	125	83	113	59	3.92	20	Q
Beryllium	18	0.19	19	0.17	91.6	83	113	19	5.73	20	
Cadmium	17	0.19	19	0.063	89.0	82	113	18	7.00	20	
Calcium	910	38	190	620	155	81	116	1,000	12.5	20	Q
Cobalt	20	0.76	19	3.4	87.3	85	112	21	5.66	20	
Copper	69	3.8	19	38	163	81	117	71	2.53	20	Q
Iron	16,000	11	190	14,000	1,210	81	118	15,000	7.45	20	JQ
Lead	23	3.8	19	5.8	90.4	81	112	24	5.96	20	
Magnesium	2,400	38	190	2,200	108	78	115	2,600	7.72	20	J
Manganese	180	0.76	19	160	104	84	114	190	8.58	20	
Nickel	31	3.8	19	10	111	83	113	34	8.77	20	
Potassium	1,200	15	190	1,100	85.3	81	116	1,400	10.9	20	
Selenium	10	1.5	19	0	52.8	78	111	13	25.2	20	RQ
Silver	17	0.76	19	0	88.7	82	112	18	7.99	20	
Sodium	270	38	190	91	96.7	83	118	320	15.0	20	
Vanadium	46	1.9	19	27	101	82	114	48	4.29	20	J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	MB-40406	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	PBS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706197

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	0.50	0.50									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706198

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	26	0.50	25	0	104	85	113				
Zinc	25	5.0	25	0	99.4	82	113				

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706200

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	42	0.38	19	19	116	85	113				Q
Zinc	67	3.8	19	28	205	82	113				Q

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706201

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	38	0.38	19	19	96.9	85	113	42	9.34	20	
Zinc	57	3.8	19	28	154	82	113	67	16.0	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40409

Sample ID:	LCS-40409	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	LCSS	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697329

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.8	0.20	10	0	97.9	83	118				

Sample ID:	MB-40409	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	PBS	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697330

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697332

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.5	0.16	7.9	0.096	94.3	83	118				

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697333

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.9	0.16	7.9	0.096	86.2	83	118	7.5	8.82	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40481**

Sample ID:	**MB-40481**	Samp Type:	**MBLK**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**7/19/2016**	RunNo:	**87852**
Client ID:	**PBS**	Batch ID:	**40481**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**8/4/2016**	SeqNo:	**1707715**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	0.37	1.0									J
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	**LCS-40481**	Samp Type:	**LCS**	Test Code:	**SW_6010S**	Units:	**mg/Kg**	Prep Date:	**7/19/2016**	RunNo:	**87852**
Client ID:	**LCSS**	Batch ID:	**40481**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**8/4/2016**	SeqNo:	**1707716**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	24	5.0	25	0	95.5	74	119				
Antimony	24	1.0	25	0	94.8	79	114				
Arsenic	23	2.0	25	0	92.9	82	111				
Barium	23	10	25	0	91.6	83	113				
Beryllium	21	0.25	25	0	84.9	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40481**

Sample ID:	LCS-40481	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/19/2016	RunNo:	87852
Client ID:	LCSS	Batch ID:	40481	TestNo:	SW6010B	SW3050B		Analysis Date:	8/4/2016	SeqNo:	1707716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	24	0.25	25	0	95.7	82	113				
Calcium	220	50	250	0	87.6	81	116				
Chromium	23	0.50	25	0	93.9	85	113				
Cobalt	24	1.0	25	0	97.6	85	112				
Copper	25	5.0	25	0	101	81	117				
Iron	210	15	250	0	83.0	81	118				
Lead	24	5.0	25	0	95.8	81	112				
Magnesium	220	50	250	0	88.7	78	115				
Manganese	24	1.0	25	0	96.1	84	114				
Nickel	27	5.0	25	0	107	83	113				
Potassium	220	20	250	0	87.4	81	116				
Selenium	24	2.0	25	0	96.8	78	111				
Silver	24	1.0	25	0	95.7	82	112				
Sodium	220	50	250	0	86.7	83	118				
Vanadium	24	2.5	25	0	94.2	82	114				
Zinc	24	5.0	25	0	96.8	82	113				

Sample ID:	1606652-014FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/19/2016	RunNo:	87852
Client ID:	ZZZZZZ	Batch ID:	40481	TestNo:	SW6010B	SW3050B		Analysis Date:	8/4/2016	SeqNo:	1707718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,800	4.3	21	8,900	-196	74	119				Q
Antimony	23	0.86	21	3.5	90.7	79	114				
Arsenic	22	1.7	21	1.6	94.5	82	111				
Barium	58	8.6	21	42	72.3	83	113				Q
Beryllium	20	0.21	21	0.23	91.5	83	113				
Cadmium	20	0.21	21	0.032	95.0	82	113				
Calcium	1,000	43	210	810	111	81	116				
Chromium	32	0.43	21	13	90.5	85	113				
Cobalt	24	0.86	21	3.8	92.8	85	112				
Copper	52	4.3	21	31	98.6	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40481**

Sample ID: **1606652-014FMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/19/2016** RunNo: **87852**

Client ID: **ZZZZZZ** Batch ID: **40481** TestNo: **SW6010B** **SW3050B** Analysis Date: **8/4/2016** SeqNo: **1707718**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,300	13	210	9,800	-221	81	118				JQ
Lead	22	4.3	21	3.5	87.5	81	112				
Magnesium	2,000	43	210	2,100	-20.4	78	115				Q
Manganese	140	0.86	21	130	45.1	84	114				Q
Nickel	33	4.3	21	8.4	113	83	113				Q
Potassium	1,500	17	210	1,500	15.7	81	116				Q
Selenium	17	1.7	21	0	81.1	78	111				
Silver	20	0.86	21	0	94.8	82	112				
Sodium	320	43	210	120	91.9	83	118				
Vanadium	43	2.1	21	22	94.9	82	114				
Zinc	34	4.3	21	16	82.2	82	113				

Sample ID: **1606652-014FMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/19/2016** RunNo: **87852**

Client ID: **ZZZZZZ** Batch ID: **40481** TestNo: **SW6010B** **SW3050B** Analysis Date: **8/4/2016** SeqNo: **1707719**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	10,000	4.3	21	8,900	7,500	74	119	8,800	17.1	20	Q
Antimony	24	0.86	21	3.5	96.7	79	114	23	5.44	20	
Arsenic	24	1.7	21	1.6	103	82	111	22	7.79	20	
Barium	67	8.6	21	42	114	83	113	58	14.4	20	Q
Beryllium	21	0.21	21	0.23	97.4	83	113	20	6.22	20	
Cadmium	21	0.21	21	0.032	98.0	82	113	20	3.15	20	
Calcium	1,200	43	210	810	160	81	116	1,000	9.64	20	Q
Chromium	36	0.43	21	13	107	85	113	32	10.3	20	
Cobalt	24	0.86	21	3.8	95.4	85	112	24	2.31	20	
Copper	59	4.3	21	31	130	81	117	52	12.3	20	Q
Iron	11,000	13	210	9,800	504	81	118	9,300	15.4	20	JQ
Lead	24	4.3	21	3.5	95.5	81	112	22	7.44	20	
Magnesium	2,400	43	210	2,100	136	78	115	2,000	15.3	20	JQ
Manganese	170	0.86	21	130	143	84	114	140	13.6	20	Q
Nickel	34	4.3	21	8.4	121	83	113	33	4.63	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40481**

Sample ID:	**1606652-014FMSD**	Samp Type:	**MSD**	Test Code:	**SW_6010S**	Units:	**mg/Kg-dry**	Prep Date:	**7/19/2016**	RunNo:	**87852**
Client ID:	**ZZZZZZ**	Batch ID:	**40481**	TestNo:	**SW6010B**	**SW3050B**		Analysis Date:	**8/4/2016**	SeqNo:	**1707719**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,700	17	210	1,500	122	81	116	1,500	14.2	20	Q
Selenium	19	1.7	21	0	90.3	78	111	17	10.7	20	
Silver	21	0.86	21	0	98.2	82	112	20	3.49	20	
Sodium	360	43	210	120	109	83	118	320	11.0	20	
Vanadium	47	2.1	21	22	116	82	114	43	9.90	20	JQ
Zinc	36	4.3	21	16	93.4	82	113	34	6.93	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40532**

Sample ID:	MB-40532	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/25/2016	RunNo:	87609
Client ID:	PBS	Batch ID:	40532	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1701989

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	LCS-40532	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/25/2016	RunNo:	87609
Client ID:	LCSS	Batch ID:	40532	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1702016

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	8.8	0.20	10	0	88.0	83	118				

Sample ID:	1606652-014FMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/25/2016	RunNo:	87609
Client ID:	ZZZZZZ	Batch ID:	40532	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1702018

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.3	0.17	8.5	0.19	83.8	83	118				

Sample ID:	1606652-014FMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/25/2016	RunNo:	87609
Client ID:	ZZZZZZ	Batch ID:	40532	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1702019

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.3	0.17	8.4	0.19	84.4	83	118	7.3	1.19	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86902**

Sample ID:	**1606606-002B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/23/2016**	RunNo:	**86902**	
Client ID:	**H15-SB02-22LR1**	Batch ID:	**R86902**	TestNo:	**D2216**			Analysis Date:	**6/23/2016**	SeqNo:	**1686218**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	8.7	1.0						8.680	0.593	20		

Sample ID:	**1606652-009G DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/23/2016**	RunNo:	**86902**	
Client ID:	**ZZZZZZ**	Batch ID:	**R86902**	TestNo:	**D2216**			Analysis Date:	**6/23/2016**	SeqNo:	**1686232**	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Percent Moisture	5.9	1.0						5.879	1.16	20		

RTI Laboratories - Definitions and Acronyms

WO#: 1606606

Date Reported: 8/8/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

16 060006

Chain of Custody

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061616-01
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	% Moisture	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
BG04-SS03	00	01	N	1	BG04-SS03-01	6/15/16	1200	SS	2	0946							1		1			
BG04-SS04	00	01	N	1	BG04-SS04-01		1110	SS														
BG04-SS05	00	01	N	1	BG04-SS05-01		1120	SS														
BG04-SS06	00	01	N	1	BG04-SS06-01		1125	SS														
BG04-SS07	00	01	N	1	BG04-SS07-01		1155	SS														
H15-SB01	24	25	N	1	H15-SB01-25		1530	SO														
H15-SB02	21	22	N	1	H15-SB02-22		1415	SO														
H15-SB02	21	22	MS	1	H15-SB02-22MS		1415	SO														matrix spike
H15-SB02	21	22	SD	1	H15-SB02-22MSD		1415	SO														spike Duplicat
H15-SB03	17	18	N	1	H15-SB03-18		1345	SO														
H15-SS01	00	01	N	1	H15-SS01-01		1525	SS														
H15-SS02	00	01	N	1	H15-SS02-01		1410	SS														
H15-SS03	00	01	N	1	H15-SS03-01		1340	SS														

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/16/16	Time 1300	1. Received By / Company	XFER TO FEDEX	Date 6/16/16 Time 1300
2. Relinquished By / Company		Date	Time	2. Received By / Company	Amanda Martin / RTI	Date 6/17/16 Time 0830
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date Time

Comments

Shipment Method/Airbill No. 8103 0202 5201 5

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

SOIL SAMPLES

1713

Cooler #2

046

CUSTODY SEALS

Date 6/16/16

Signature

Cooler ID J7B

COC ID 06/16/16-01

CUSTODY SEALS

Date 6/16/16

Signature

track# 810302225615

temp 0.4°C

047

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Saturday, August 06, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606631

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606631-001A	WDS-SB10-GW		6/15/2016 3:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-001B	WDS-SB10-GW		6/15/2016 3:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-001C	WDS-SB10-GW		6/15/2016 3:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-001D	WDS-SB10-GW		6/15/2016 3:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-002A	P113-SB02-GW		6/16/2016 12:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-002B	P113-SB02-GW		6/16/2016 12:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-002C	P113-SB02-GW		6/16/2016 12:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-003A	WDS-SB01-GW		6/16/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-003B	WDS-SB01-GW		6/16/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-003C	WDS-SB01-GW		6/16/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-003D	WDS-SB01-GW		6/16/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-004A	WDS-SB02-GW		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-004B	WDS-SB02-GW		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-004C	WDS-SB02-GW		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-004D	WDS-SB02-GW		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-005A	WDS-SB03-GW		6/16/2016 3:15 PM	6/18/2016 10:37 AM	Groundwater
1606631-005B	WDS-SB03-GW		6/16/2016 3:15 PM	6/18/2016 10:37 AM	Groundwater
1606631-005C	WDS-SB03-GW		6/16/2016 3:15 PM	6/18/2016 10:37 AM	Groundwater
1606631-005D	WDS-SB03-GW		6/16/2016 3:15 PM	6/18/2016 10:37 AM	Groundwater
1606631-006A	TB-GW-061516-01		6/15/2016 8:00 AM	6/18/2016 10:37 AM	Water
1606631-007A	TB-GW-061616-01		6/16/2016 8:00 AM	6/18/2016 10:37 AM	Water
1606631-008A	P113-SB01-GW		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Groundwater
1606631-008B	P113-SB01-GW		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Groundwater
1606631-008C	P113-SB01-GW		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Groundwater
1606631-009A	P113-SB03-GW		6/16/2016 1:10 PM	6/18/2016 10:37 AM	Groundwater
1606631-009B	P113-SB03-GW		6/16/2016 1:10 PM	6/18/2016 10:37 AM	Groundwater
1606631-009C	P113-SB03-GW		6/16/2016 1:10 PM	6/18/2016 10:37 AM	Groundwater
1606631-010A	WDS-SB08-GW		6/17/2016 10:55 AM	6/18/2016 10:37 AM	Groundwater
1606631-010B	WDS-SB08-GW		6/17/2016 10:55 AM	6/18/2016 10:37 AM	Groundwater
1606631-010C	WDS-SB08-GW		6/17/2016 10:55 AM	6/18/2016 10:37 AM	Groundwater
1606631-010D	WDS-SB08-GW		6/17/2016 10:55 AM	6/18/2016 10:37 AM	Groundwater
1606631-011A	WDS-SB15-GW		6/17/2016 11:00 AM	6/18/2016 10:37 AM	Groundwater
1606631-011B	WDS-SB15-GW		6/17/2016 11:00 AM	6/18/2016 10:37 AM	Groundwater
1606631-011C	WDS-SB15-GW		6/17/2016 11:00 AM	6/18/2016 10:37 AM	Groundwater
1606631-011D	WDS-SB15-GW		6/17/2016 11:00 AM	6/18/2016 10:37 AM	Groundwater
1606631-012A	TB-GW-061716-01		6/17/2016 8:00 AM	6/18/2016 10:37 AM	Water
1606631-013A	TB-GW-061616-02		6/16/2016 8:10 AM	6/18/2016 10:37 AM	Water
1606631-014A	WDS-SB12-GW		6/17/2016 12:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-014B	WDS-SB12-GW		6/17/2016 12:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-014C	WDS-SB12-GW		6/17/2016 12:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-014D	WDS-SB12-GW		6/17/2016 12:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-015A	WDS-SB13-GW		6/17/2016 12:05 PM	6/18/2016 10:37 AM	Groundwater
1606631-015B	WDS-SB13-GW		6/17/2016 12:05 PM	6/18/2016 10:37 AM	Groundwater
1606631-015C	WDS-SB13-GW		6/17/2016 12:05 PM	6/18/2016 10:37 AM	Groundwater
1606631-015D	WDS-SB13-GW		6/17/2016 12:05 PM	6/18/2016 10:37 AM	Groundwater

RTI Laboratories - Workorder Sample Summary

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606631-016A	H14-SB01-GW		6/17/2016 1:00 PM	6/18/2016 10:37 AM	Groundwater
1606631-016B	H14-SB01-GW		6/17/2016 1:00 PM	6/18/2016 10:37 AM	Groundwater
1606631-017A	H14-SB03-GW		6/17/2016 1:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-017B	H14-SB03-GW		6/17/2016 1:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-018A	MP-SB03-GW		6/17/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-018B	MP-SB03-GW		6/17/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-018C	MP-SB03-GW		6/17/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-018D	MP-SB03-GW		6/17/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-019A	TB-GW-061716-02		6/17/2016 8:10 AM	6/18/2016 10:37 AM	Water

RTI Laboratories - Case Narrative

WO#: **1606631**

Date Reported: **8/6/2016**
Original

Client:	AECOM Design and Consulting Services (DCS)
Project:	Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Metals, ICP/MS - 6020A
- Metals, ICP/MS - 6020A-PB-STAR
- Silver and/or Antimony, ICP/MS - 6020A-SA
- Polychlorinated Biphenyls - 8082A
- Volatile Organic Compounds - 8260C
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM

Sample 1606631-003B for SW_8270A-SIM analysis required to be performed with 4 different dilutions in order to report all compounds with in a working calibration range. Please note the third dilution (50) and the fourth dilution (200) were analyzed past the recommended hold time.

Analytical Comments for Test SW_6020A, Analytical Run No 87684, Batch ID 40440:
- Sample 1606631-005DMS: Recoveries for Calcium and Aluminum exceeded control limits.
- Sample 1606631-005DMSD: Recoveries for Calcium, Sodium and Aluminum exceeded control limits.

Analytical Comments for Test SW_8082A, Analytical Run No 87065, Batch ID 40264:
- Sample 1606631-004C: Decachlorobiphenyl surrogate exceeded control limit.

Analytical Comments for Test SW_8260A, Analytical Run No 86945, Batch ID R86945:
- Sample VOA11B CCV2 062616: Acetone, Bromoform, chloromethane, Trichlorofluoromethane, 2-hexanone and bromomethane exceed the 20% criteria.
- Sample VOA11B MBLK2 062: Chloromethane detected in method blank in concentrations > 1/2 LOQ. Surrogate exceeded QC limit.
- Sample VOA11B LCS2 0626: LCS results for Bromodichloromethane,Chlorodibromomethane,cis-1,3-Dichloropropene, Chloromethane, and Bromoform exceed the 20% criteria.
- Sample VOA11B LCSD2 062: Spike recoveries for several compounds were outside the control limits.
- Sample 1606631-007A: Surrogate recovery for Toluene-d8 exceeded QC limit.
- Sample 1606631-012A: Surrogate recovery for Toluene-d8 exceeded QC limit.
- Sample 1606631-013A: Surrogate recovery for Toluene-d8 exceeded QC limit.
- Sample VOA11B CCVE 062616: Trichlorofluoromethane and bromomethane exceed the 50% criteria.

Analytical Comments for Test SW_8260A, Analytical Run No 86984, Batch ID R86984:
- Sample VOA10 CCV 062816: 1,2-Dibromo-3-chloropropane exceed the 20% criteria.
- Sample VOA10 LCSD 06281: 1,2-Dibromo-3-chloropropane, Bromoform and Chlorobenzene exceed limits. RPD for 1,2-Dibromo-3-chloropropane and Chloroethane were outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86948, Batch ID 40220:
- Sample LCS-40220: Spike recoveries for 4-Nitrophenol, N-Nitrosodimethylamine and Phenol were outside the control limits.
- Sample LCSD-40220: Spike recoveries for 4-Nitrophenol, Benzoic acid, and N-Nitrosodimethylamine were outside the control limits.
- Sample 1606631-001B: Surrogate Phenol-d5 exceeded recovery control limit.
- Sample 1606631-002B: Surrogate Phenol-d5 exceeded recovery control limit.
- Sample 1606631-003B: Surrogate Phenol-d5, 2-Fluorobiphenyl, Terphenyl-d14 and Nitrobenzene-d5
- Sample 1606631-004B: Surrogate Phenol-d5, Nitrobenzene-d5 Terphenyl-d14 and 2-Fluorobiphenyl exceeded recovery control limit.
- Sample 1606631-005B: Surrogate Phenol-d5, 2-Fluorobiphenyl and Nitrobenzene-d5 exceeded recovery control limit.
- Sample 1606631-009B: Surrogate Phenol-d5 and Terphenyl-d14 exceeded recovery control limit.
- Sample 1606631-010B: Surrogate Phenol-d5, 2-Fluorobiphenyl and Nitrobenzene-d5 exceeded recovery control limit.
- Sample 1606631-011B: Surrogate Phenol-d5 exceeded recovery control limit.
- Sample 1606631-014B: Surrogate Phenol-d5 exceeded recovery control limit.
- Sample 1606631-015B: Surrogate Phenol-d5 exceeded recovery control limit.
- Sample MB-40220: Surrogates 2,4,6-Tribromophenol, 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86948, Batch ID R86948:
- Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic Acid exceeded control limit.
- Sample CCV S8 062616: CCV results 2,4-Dinitrophenol, Benzoic acid, N-Nitrosodiphenylamine and Pentachlorophenol
- Sample CCVE S8 062616: Ending CCV results for Benzoic acid exceeded recovery control limit.

Analytical Comments for 8270D, Sample CCVE SIM 062716S7, Batch ID R87615 : Due to the nature of the samples the recovery for Benzo(g,h,I) perylene failed.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87461, Batch ID 40213:
- Sample 1606631-005B: Surrogate recoveries for 2-Fluorobiphenyl, and Nitrobenzene-d5 were outside the control limits.
- Sample 1606631-008B: Surrogate recovery for 2-Fluorobiphenyl was outside the control limits.
- Sample 1606631-009B: Surrogate recoveries for 2-Fluorobiphenyl, and Terpheny;l-d14 were outside the control limits.
- Sample 1606631-005B: Surrogate recoveries for 2-Fluorobiphenyl, and Nitrobenzene-d5 were outside the control limits.

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 3:45:00 PM
Project: Camp Hero
Lab ID: 1606631-001 **Matrix:** Groundwater
Client Sample ID: WDS-SB10-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.095	µg/L	1	6/29/2016 3:48 AM
Aroclor 1221	0.038	U	0.029	0.038	0.095	µg/L	1	6/29/2016 3:48 AM
Aroclor 1232	0.038	U	0.039	0.038	0.19	µg/L	1	6/29/2016 3:48 AM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/29/2016 3:48 AM
Aroclor 1248	0.038	U	0.030	0.038	0.095	µg/L	1	6/29/2016 3:48 AM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 3:48 AM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/29/2016 3:48 AM
Aroclor 1262	0.095	U	0.049	0.095	0.19	µg/L	1	6/29/2016 3:48 AM
Aroclor 1268	0.038	U	0.027	0.038	0.095	µg/L	1	6/29/2016 3:48 AM
Surr: Tetrachloro-m-xylene	43.6			40-135		%Rec	1	6/29/2016 3:48 AM
Surr: Decachlorobiphenyl	61.5			40-135		%Rec	1	6/29/2016 3:48 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	52,000		14	25	500	µg/L	50	7/28/2016 5:51 PM
Arsenic	5.6		0.61	1.0	1.5	µg/L	5	7/28/2016 3:15 PM
Barium	350		0.18	0.50	25	µg/L	5	7/28/2016 3:15 PM
Beryllium	2.7	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:15 PM
Cadmium	0.36	J	0.27	0.50	1.0	µg/L	5	7/28/2016 3:15 PM
Calcium	3,500	J	450	620	5,000	µg/L	25	7/28/2016 7:07 PM
Chromium	79		1.5	2.5	50	µg/L	25	7/28/2016 7:07 PM
Cobalt	31		0.60	2.5	25	µg/L	25	7/28/2016 7:07 PM
Copper	54	G	1.2	2.5	25	µg/L	25	7/28/2016 7:07 PM
Iron	52,000		480	1,200	2,000	µg/L	50	7/28/2016 5:51 PM
Lead	22		0.24	0.50	1.0	µg/L	5	7/28/2016 3:15 PM
Magnesium	12,000		200	620	2,500	µg/L	25	7/28/2016 7:07 PM
Manganese	1,300		1.3	2.5	25	µg/L	25	7/28/2016 7:07 PM
Nickel	39	J	1.0	2.5	50	µg/L	25	7/28/2016 7:07 PM
Potassium	7,200		530	620	2,500	µg/L	25	7/28/2016 7:07 PM
Selenium	2.4	J	1.5	2.5	5.0	µg/L	5	7/28/2016 3:15 PM
Sodium	19,000		290	620	2,500	µg/L	25	7/28/2016 7:07 PM
Thallium	0.94	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:15 PM
Vanadium	85		2.4	2.5	20	µg/L	25	7/28/2016 7:07 PM
Zinc	95		1.8	2.5	50	µg/L	5	7/28/2016 3:15 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	8.6	G	0.19	0.75	2.5	µg/L	5	7/12/2016 2:53 PM
Silver	7.8		0.24	0.50	1.5	µg/L	5	7/12/2016 2:53 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:07 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 3:45:00 PM
Project: Camp Hero
Lab ID: 1606631-001 **Matrix:** Groundwater
Client Sample ID: WDS-SB10-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.8	µg/L	1	6/26/2016 3:07 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2,4-Dimethyl phenol	0.94	U	0.52	0.94	4.7	µg/L	1	6/26/2016 3:07 PM
2,4-Dinitrophenol	9.4	YU	5.4	9.4	24	µg/L	1	6/26/2016 3:07 PM
2,4-Dinitrotoluene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2,6-Dinitrotoluene	0.47	U	0.27	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2-Chloronaphthalene	0.94	U	0.65	0.94	4.7	µg/L	1	6/26/2016 3:07 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2-Nitrophenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
3,3´-Dichlorobenzidine	9.4	U	5.2	9.4	19	µg/L	1	6/26/2016 3:07 PM
3-Nitroaniline	0.94	U	0.32	0.94	9.4	µg/L	1	6/26/2016 3:07 PM
3/4-Methylphenol [m/p-Cresol]	0.94	U	0.36	0.94	9.4	µg/L	1	6/26/2016 3:07 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.4	µg/L	1	6/26/2016 3:07 PM
4-Bromophenyl phenyl ether	2.4	U	0.95	2.4	4.7	µg/L	1	6/26/2016 3:07 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.4	µg/L	1	6/26/2016 3:07 PM
4-Chlorophenyl phenyl ether	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.4	µg/L	1	6/26/2016 3:07 PM
4-Nitrophenol	9.4	QU	4.3	9.4	24	µg/L	1	6/26/2016 3:07 PM
Benzoic acid	9.4	YQ ZU	3.5	9.4	24	µg/L	1	6/26/2016 3:07 PM
Benzyl alcohol	0.47	U	0.37	0.47	24	µg/L	1	6/26/2016 3:07 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.94	µg/L	1	6/26/2016 3:07 PM
Bis(2-chloroisopropyl)ether	0.47	ZU	0.22	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Carbazole	0.47	U	0.091	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Dibenzofuran	0.47	U	0.18	0.47	3.8	µg/L	1	6/26/2016 3:07 PM
Diethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.94	µg/L	1	6/26/2016 3:07 PM
Hexachlorobutadiene	0.47	U	0.30	0.47	0.94	µg/L	1	6/26/2016 3:07 PM
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Isophorone	0.94	U	0.92	0.94	4.7	µg/L	1	6/26/2016 3:07 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
N-Nitrosodimethylamine	0.47	QU	0.30	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
N-Nitrosodiphenylamine	0.47	YU	0.15	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/26/2016 3:07 PM
Pentachlorophenol	2.4	YU	1.5	2.4	4.7	µg/L	1	6/26/2016 3:07 PM
Phenol	0.47	QU	0.13	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Surr: 2,4,6-Tribromophenol	74.6			43-140		%Rec	1	6/26/2016 3:07 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 3:45:00 PM
Project:	Camp Hero		
Lab ID:	1606631-001	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB10-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	44.8			44-119		%Rec	1	6/26/2016 3:07 PM
Surr: 2-Fluorophenol	27.5	J		19-119		%Rec	1	6/26/2016 3:07 PM
Surr: Nitrobenzene-d5	44.6			44-120		%Rec	1	6/26/2016 3:07 PM
Surr: Phenol-d5	17.7	JQ		30-130		%Rec	1	6/26/2016 3:07 PM
Surr: Terphenyl-d14	67.1			50-134		%Rec	1	6/26/2016 3:07 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
2-Methylnaphthalene	0.031		0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Naphthalene	0.023		0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Phenanthrene	0.030		0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Surr: 2-Fluorobiphenyl	75.0			53-106		%Rec	1	6/22/2016 9:18 PM
Surr: Nitrobenzene-d5	72.8			55-111		%Rec	1	6/22/2016 9:18 PM
Surr: Terphenyl-d14	103			58-132		%Rec	1	6/22/2016 9:18 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 12:22 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 12:22 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 12:22 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 12:22 PM
Acetone	5.0	J	0.56	0.60	10	µg/L	1	6/28/2016 12:22 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 3:45:00 PM
Project:	Camp Hero		
Lab ID:	1606631-001	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB10-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 12:22 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 12:22 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 12:22 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 12:22 PM
Surr: 4-Bromofluorobenzene	96.0			85-114		%Rec	1	6/28/2016 12:22 PM
Surr: Dibromofluoromethane	87.1			80-119		%Rec	1	6/28/2016 12:22 PM
Surr: Toluene-d8	92.7			89-112		%Rec	1	6/28/2016 12:22 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 12:20:00 PM
Project:	Camp Hero		
Lab ID:	1606631-002	**Matrix:**	Groundwater
Client Sample ID:	P113-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	37	G	0.24	0.50	1.0	µg/L	5	7/13/2016 2:05 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2,4,5-Trichlorophenol	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.8	µg/L	1	6/26/2016 3:32 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2,4-Dimethyl phenol	0.94	U	0.52	0.94	4.7	µg/L	1	6/26/2016 3:32 PM
2,4-Dinitrophenol	9.4	YU	5.4	9.4	24	µg/L	1	6/26/2016 3:32 PM
2,4-Dinitrotoluene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2,6-Dinitrotoluene	0.47	U	0.27	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2-Chloronaphthalene	0.94	U	0.65	0.94	4.7	µg/L	1	6/26/2016 3:32 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2-Nitrophenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
3,3´-Dichlorobenzidine	9.4	U	5.2	9.4	19	µg/L	1	6/26/2016 3:32 PM
3-Nitroaniline	0.94	U	0.32	0.94	9.4	µg/L	1	6/26/2016 3:32 PM
3/4-Methylphenol [m/p-Cresol]	0.94	U	0.36	0.94	9.4	µg/L	1	6/26/2016 3:32 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.4	µg/L	1	6/26/2016 3:32 PM
4-Bromophenyl phenyl ether	2.4	U	0.95	2.4	4.7	µg/L	1	6/26/2016 3:32 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.4	µg/L	1	6/26/2016 3:32 PM
4-Chlorophenyl phenyl ether	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.4	µg/L	1	6/26/2016 3:32 PM
4-Nitrophenol	9.4	QU	4.3	9.4	24	µg/L	1	6/26/2016 3:32 PM
Benzoic acid	9.4	YQ ZU	3.5	9.4	24	µg/L	1	6/26/2016 3:32 PM
Benzyl alcohol	0.47	U	0.37	0.47	24	µg/L	1	6/26/2016 3:32 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.94	µg/L	1	6/26/2016 3:32 PM
Bis(2-chloroisopropyl)ether	0.47	ZU	0.22	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Carbazole	0.47	U	0.091	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Dibenzofuran	0.47	U	0.18	0.47	3.8	µg/L	1	6/26/2016 3:32 PM
Diethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.94	µg/L	1	6/26/2016 3:32 PM
Hexachlorobutadiene	0.47	U	0.30	0.47	0.94	µg/L	1	6/26/2016 3:32 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 12:20:00 PM
Project: Camp Hero
Lab ID: 1606631-002 **Matrix:** Groundwater
Client Sample ID: P113-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Isophorone	0.94	U	0.92	0.94	4.7	µg/L	1	6/26/2016 3:32 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
N-Nitrosodimethylamine	0.47	QU	0.30	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
N-Nitrosodiphenylamine	0.47	YU	0.15	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/26/2016 3:32 PM
Pentachlorophenol	2.4	YU	1.5	2.4	4.7	µg/L	1	6/26/2016 3:32 PM
Phenol	0.47	QU	0.13	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Surr: 2,4,6-Tribromophenol	73.5			43-140		%Rec	1	6/26/2016 3:32 PM
Surr: 2-Fluorobiphenyl	48.6			44-119		%Rec	1	6/26/2016 3:32 PM
Surr: 2-Fluorophenol	28.8	J		19-119		%Rec	1	6/26/2016 3:32 PM
Surr: Nitrobenzene-d5	47.8			44-120		%Rec	1	6/26/2016 3:32 PM
Surr: Phenol-d5	17.7	JQ		30-130		%Rec	1	6/26/2016 3:32 PM
Surr: Terphenyl-d14	71.7			50-134		%Rec	1	6/26/2016 3:32 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
2-Methylnaphthalene	0.029		0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Naphthalene	0.019		0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Phenanthrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Surr: 2-Fluorobiphenyl	68.6			53-106		%Rec	1	6/22/2016 9:45 PM
Surr: Nitrobenzene-d5	66.2			55-111		%Rec	1	6/22/2016 9:45 PM
Surr: Terphenyl-d14	89.6			58-132		%Rec	1	6/22/2016 9:45 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 12:48 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 12:48 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 12:20:00 PM
Project:	Camp Hero		
Lab ID:	1606631-002	**Matrix:**	Groundwater
Client Sample ID:	P113-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 12:48 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 12:48 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 12:48 PM
Acetone	2.4	J	0.56	0.60	10	µg/L	1	6/28/2016 12:48 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 12:48 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 12:48 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 12:48 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 12:48 PM
Surr: 4-Bromofluorobenzene	98.1			85-114		%Rec	1	6/28/2016 12:48 PM
Surr: Dibromofluoromethane	84.9			80-119		%Rec	1	6/28/2016 12:48 PM
Surr: Toluene-d8	92.0			89-112		%Rec	1	6/28/2016 12:48 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606631-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	6/29/2016 4:12 AM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	6/29/2016 4:12 AM
Aroclor 1232	0.037	U	0.038	0.037	0.19	µg/L	1	6/29/2016 4:12 AM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	6/29/2016 4:12 AM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	6/29/2016 4:12 AM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	6/29/2016 4:12 AM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	6/29/2016 4:12 AM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	6/29/2016 4:12 AM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	6/29/2016 4:12 AM
Surr: Tetrachloro-m-xylene	47.3			40-135		%Rec	1	6/29/2016 4:12 AM
Surr: Decachlorobiphenyl	61.0			40-135		%Rec	1	6/29/2016 4:12 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	29,000		14	25	500	µg/L	50	7/28/2016 5:52 PM
Arsenic	8.3		0.61	1.0	1.5	µg/L	5	7/28/2016 3:17 PM
Barium	190		0.18	0.50	25	µg/L	5	7/28/2016 3:17 PM
Beryllium	1.1	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:17 PM
Cadmium	1.5		0.27	0.50	1.0	µg/L	5	7/28/2016 3:17 PM
Calcium	9,200		90	120	1,000	µg/L	5	7/28/2016 3:17 PM
Chromium	40		0.30	0.50	10	µg/L	5	7/28/2016 3:17 PM
Cobalt	12		0.12	0.50	5.0	µg/L	5	7/28/2016 3:17 PM
Copper	40	G	0.24	0.50	5.0	µg/L	5	7/28/2016 3:17 PM
Iron	25,000		48	120	200	µg/L	5	7/28/2016 3:17 PM
Lead	56		0.24	0.50	1.0	µg/L	5	7/28/2016 3:17 PM
Magnesium	11,000		41	120	500	µg/L	5	7/28/2016 3:17 PM
Manganese	450	G	0.26	0.50	5.0	µg/L	5	7/28/2016 3:17 PM
Nickel	32		0.20	0.50	10	µg/L	5	7/28/2016 3:17 PM
Potassium	4,400		110	120	500	µg/L	5	7/28/2016 3:17 PM
Selenium	1.8	J	1.5	2.5	5.0	µg/L	5	7/28/2016 3:17 PM
Sodium	30,000		58	120	500	µg/L	5	7/28/2016 3:17 PM
Thallium	0.57	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:17 PM
Vanadium	51		0.49	0.50	4.0	µg/L	5	7/28/2016 3:17 PM
Zinc	110		1.8	2.5	50	µg/L	5	7/28/2016 3:17 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.4	GJ	0.19	0.75	2.5	µg/L	5	7/12/2016 2:54 PM
Silver	0.42	J	0.24	0.50	1.5	µg/L	5	7/12/2016 2:54 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:57 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 2:20:00 PM
Project:	Camp Hero		
Lab ID:	1606631-003	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.7	µg/L	1	6/26/2016 3:57 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2,4-Dimethyl phenol	0.93	U	0.52	0.93	4.7	µg/L	1	6/26/2016 3:57 PM
2,4-Dinitrophenol	9.3	YU	5.3	9.3	23	µg/L	1	6/26/2016 3:57 PM
2,4-Dinitrotoluene	0.59	J	0.23	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2,6-Dinitrotoluene	0.47	U	0.26	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2-Chloronaphthalene	0.93	U	0.65	0.93	4.7	µg/L	1	6/26/2016 3:57 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2-Nitrophenol	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
3,3´-Dichlorobenzidine	9.3	U	5.2	9.3	19	µg/L	1	6/26/2016 3:57 PM
3-Nitroaniline	0.93	U	0.32	0.93	9.3	µg/L	1	6/26/2016 3:57 PM
3/4-Methylphenol [m/p-Cresol]	0.93	U	0.36	0.93	9.3	µg/L	1	6/26/2016 3:57 PM
4,6-Dinitro-2-methylphenol	2.3	U	1.5	2.3	9.3	µg/L	1	6/26/2016 3:57 PM
4-Bromophenyl phenyl ether	2.3	U	0.94	2.3	4.7	µg/L	1	6/26/2016 3:57 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.3	µg/L	1	6/26/2016 3:57 PM
4-Chlorophenyl phenyl ether	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.3	µg/L	1	6/26/2016 3:57 PM
4-Nitrophenol	9.3	QU	4.3	9.3	23	µg/L	1	6/26/2016 3:57 PM
Benzoic acid	9.6	JY QZ	3.5	9.3	23	µg/L	1	6/26/2016 3:57 PM
Benzyl alcohol	0.47	U	0.37	0.47	23	µg/L	1	6/26/2016 3:57 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 3:57 PM
Bis(2-chloroisopropyl)ether	0.47	ZU	0.22	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Carbazole	7.6		0.090	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Dibenzofuran	13		0.18	0.47	3.7	µg/L	1	6/26/2016 3:57 PM
Diethyl phthalate	0.47	U	0.15	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 3:57 PM
Hexachlorobutadiene	0.47	U	0.29	0.47	0.93	µg/L	1	6/26/2016 3:57 PM
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Isophorone	0.93	U	0.91	0.93	4.7	µg/L	1	6/26/2016 3:57 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
N-Nitrosodimethylamine	0.47	QU	0.29	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
N-Nitrosodiphenylamine	0.47	YU	0.15	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/26/2016 3:57 PM
Pentachlorophenol	2.3	YU	1.5	2.3	4.7	µg/L	1	6/26/2016 3:57 PM
Phenol	0.47	QU	0.13	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Surr: 2,4,6-Tribromophenol	45.1			43-140		%Rec	1	6/26/2016 3:57 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606631-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	28.2	Q		44-119		%Rec	1	6/26/2016 3:57 PM
Surr: 2-Fluorophenol	24.0	J		19-119		%Rec	1	6/26/2016 3:57 PM
Surr: Nitrobenzene-d5	29.9	Q		44-120		%Rec	1	6/26/2016 3:57 PM
Surr: Phenol-d5	15.5	JQ		30-130		%Rec	1	6/26/2016 3:57 PM
Surr: Terphenyl-d14	42.6	Q		50-134		%Rec	1	6/26/2016 3:57 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	20	UH	20	20	20	µg/L	50	8/4/2016 6:29 PM
2-Methylnaphthalene	20	UH	20	20	20	µg/L	50	8/4/2016 6:29 PM
Acenaphthene	20	UH	20	20	20	µg/L	50	8/4/2016 6:29 PM
Acenaphthylene	0.72		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Anthracene	0.78		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Benz(a)anthracene	0.30		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Benzo(a)pyrene	0.073		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Benzo(b)fluoranthene	0.16		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Benzo(g,h,i)perylene	0.073		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Benzo(k)fluoranthene	0.051		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Chrysene	0.14		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Fluoranthene	2.3		0.093	0.093	0.093	µg/L	5	6/24/2016 9:15 PM
Fluorene	20	UH	20	20	20	µg/L	50	8/4/2016 6:29 PM
Indeno(1,2,3-cd)pyrene	0.061		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Naphthalene	92	H	20	20	20	µg/L	200	8/5/2016 2:52 PM
Phenanthrene	20	UH	20	20	20	µg/L	50	8/4/2016 6:29 PM
Pyrene	1.8		0.093	0.093	0.093	µg/L	5	6/24/2016 9:15 PM
Surr: 2-Fluorobiphenyl	24.6	Q		53-106		%Rec	1	6/22/2016 10:12 PM
Surr: Nitrobenzene-d5	31.5	Q		55-111		%Rec	1	6/22/2016 10:12 PM
Surr: Terphenyl-d14	40.9	Q		58-132		%Rec	1	6/22/2016 10:12 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 1:14 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 1:14 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 1:14 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 1:14 PM
Acetone	3.2	J	0.56	0.60	10	µg/L	1	6/28/2016 1:14 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 2:20:00 PM
Project:	Camp Hero		
Lab ID:	1606631-003	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 1:14 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Ethylbenzene	1.4		0.43	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 1:14 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Toluene	0.56	J	0.50	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 1:14 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Xylene (total)	2.6	J	1.3	1.8	3.0	µg/L	1	6/28/2016 1:14 PM
Surr: 4-Bromofluorobenzene	97.5			85-114		%Rec	1	6/28/2016 1:14 PM
Surr: Dibromofluoromethane	86.2			80-119		%Rec	1	6/28/2016 1:14 PM
Surr: Toluene-d8	90.3			89-112		%Rec	1	6/28/2016 1:14 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 2:45:00 PM
Project:	Camp Hero		
Lab ID:	1606631-004	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	6/29/2016 4:36 AM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	6/29/2016 4:36 AM
Aroclor 1232	0.037	U	0.038	0.037	0.19	µg/L	1	6/29/2016 4:36 AM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	6/29/2016 4:36 AM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	6/29/2016 4:36 AM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	6/29/2016 4:36 AM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	6/29/2016 4:36 AM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	6/29/2016 4:36 AM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	6/29/2016 4:36 AM
Surr: Tetrachloro-m-xylene	25.3	Q		40-135		%Rec	1	6/29/2016 4:36 AM
Surr: Decachlorobiphenyl	41.9			40-135		%Rec	1	6/29/2016 4:36 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	15,000		14	25	500	µg/L	50	7/28/2016 5:53 PM
Arsenic	5.4		0.61	1.0	1.5	µg/L	5	7/28/2016 3:19 PM
Barium	110		0.18	0.50	25	µg/L	5	7/28/2016 3:19 PM
Beryllium	0.79	GJ	0.25	0.50	1.0	µg/L	5	7/28/2016 3:19 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 3:19 PM
Calcium	10,000		90	120	1,000	µg/L	5	7/28/2016 3:19 PM
Chromium	23		0.30	0.50	10	µg/L	5	7/28/2016 3:19 PM
Cobalt	11		0.12	0.50	5.0	µg/L	5	7/28/2016 3:19 PM
Copper	32	G	0.24	0.50	5.0	µg/L	5	7/28/2016 3:19 PM
Iron	22,000		48	120	200	µg/L	5	7/28/2016 3:19 PM
Lead	12		0.24	0.50	1.0	µg/L	5	7/28/2016 3:19 PM
Magnesium	7,900		41	120	500	µg/L	5	7/28/2016 3:19 PM
Manganese	510	G	0.26	0.50	5.0	µg/L	5	7/28/2016 3:19 PM
Nickel	18		0.20	0.50	10	µg/L	5	7/28/2016 3:19 PM
Potassium	3,200		110	120	500	µg/L	5	7/28/2016 3:19 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/28/2016 3:19 PM
Sodium	28,000		58	120	500	µg/L	5	7/28/2016 3:19 PM
Thallium	0.24	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:19 PM
Vanadium	30		0.49	0.50	4.0	µg/L	5	7/28/2016 3:19 PM
Zinc	67		1.8	2.5	50	µg/L	5	7/28/2016 3:19 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.61	GJ	0.19	0.75	2.5	µg/L	5	7/12/2016 2:55 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 2:55 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:22 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606631-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.7	µg/L	1	6/26/2016 4:22 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2,4-Dimethyl phenol	0.93	U	0.52	0.93	4.7	µg/L	1	6/26/2016 4:22 PM
2,4-Dinitrophenol	9.3	YU	5.3	9.3	23	µg/L	1	6/26/2016 4:22 PM
2,4-Dinitrotoluene	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2,6-Dinitrotoluene	0.47	U	0.26	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2-Chloronaphthalene	0.93	U	0.65	0.93	4.7	µg/L	1	6/26/2016 4:22 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2-Nitrophenol	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
3,3´-Dichlorobenzidine	9.3	U	5.2	9.3	19	µg/L	1	6/26/2016 4:22 PM
3-Nitroaniline	0.93	U	0.32	0.93	9.3	µg/L	1	6/26/2016 4:22 PM
3/4-Methylphenol [m/p-Cresol]	0.93	U	0.36	0.93	9.3	µg/L	1	6/26/2016 4:22 PM
4,6-Dinitro-2-methylphenol	2.3	U	1.5	2.3	9.3	µg/L	1	6/26/2016 4:22 PM
4-Bromophenyl phenyl ether	2.3	U	0.94	2.3	4.7	µg/L	1	6/26/2016 4:22 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.3	µg/L	1	6/26/2016 4:22 PM
4-Chlorophenyl phenyl ether	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.3	µg/L	1	6/26/2016 4:22 PM
4-Nitrophenol	9.3	QU	4.3	9.3	23	µg/L	1	6/26/2016 4:22 PM
Benzoic acid	15	JY QZ	3.5	9.3	23	µg/L	1	6/26/2016 4:22 PM
Benzyl alcohol	0.47	U	0.37	0.47	23	µg/L	1	6/26/2016 4:22 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 4:22 PM
Bis(2-chloroisopropyl)ether	0.47	ZU	0.22	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Carbazole	4.4	J	0.090	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Dibenzofuran	9.4		0.18	0.47	3.7	µg/L	1	6/26/2016 4:22 PM
Diethyl phthalate	0.47	U	0.15	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 4:22 PM
Hexachlorobutadiene	0.47	U	0.29	0.47	0.93	µg/L	1	6/26/2016 4:22 PM
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Isophorone	0.93	U	0.91	0.93	4.7	µg/L	1	6/26/2016 4:22 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
N-Nitrosodimethylamine	0.47	QU	0.29	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
N-Nitrosodiphenylamine	0.47	YU	0.15	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/26/2016 4:22 PM
Pentachlorophenol	2.3	YU	1.5	2.3	4.7	µg/L	1	6/26/2016 4:22 PM
Phenol	0.47	QU	0.13	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Surr: 2,4,6-Tribromophenol	49.6			43-140		%Rec	1	6/26/2016 4:22 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606631-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	32.8	Q		44-119		%Rec	1	6/26/2016 4:22 PM
Surr: 2-Fluorophenol	30.1	J		19-119		%Rec	1	6/26/2016 4:22 PM
Surr: Nitrobenzene-d5	41.4	Q		44-120		%Rec	1	6/26/2016 4:22 PM
Surr: Phenol-d5	20.4	JQ		30-130		%Rec	1	6/26/2016 4:22 PM
Surr: Terphenyl-d14	24.8	Q		50-134		%Rec	1	6/26/2016 4:22 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	44		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
2-Methylnaphthalene	11		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Acenaphthene	45		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Acenaphthylene	1.4		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Anthracene	8.7		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Benz(a)anthracene	0.18		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Benzo(a)pyrene	0.048		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Benzo(b)fluoranthene	0.10		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Benzo(g,h,i)perylene	0.025		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Benzo(k)fluoranthene	0.034		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Chrysene	0.082		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Fluoranthene	4.2		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Fluorene	21		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Indeno(1,2,3-cd)pyrene	0.022		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Naphthalene	200	J	1.9	1.9	1.9	µg/L	100	6/24/2016 10:12 PM
Phenanthrene	11		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Pyrene	2.4		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Surr: 2-Fluorobiphenyl	58.4			53-106		%Rec	1	6/22/2016 10:40 PM
Surr: Nitrobenzene-d5	73.6			55-111		%Rec	1	6/22/2016 10:40 PM
Surr: Terphenyl-d14	70.2			58-132		%Rec	1	6/22/2016 10:40 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 1:40 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 1:40 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 1:40 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 1:40 PM
Acetone	2.5	J	0.56	0.60	10	µg/L	1	6/28/2016 1:40 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 2:45:00 PM
Project:	Camp Hero		
Lab ID:	1606631-004	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 1:40 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Ethylbenzene	1.5		0.43	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 1:40 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 1:40 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Xylene (total)	2.7	J	1.3	1.8	3.0	µg/L	1	6/28/2016 1:40 PM
Surr: 4-Bromofluorobenzene	96.5			85-114		%Rec	1	6/28/2016 1:40 PM
Surr: Dibromofluoromethane	85.3			80-119		%Rec	1	6/28/2016 1:40 PM
Surr: Toluene-d8	94.9			89-112		%Rec	1	6/28/2016 1:40 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 3:15:00 PM
Project: Camp Hero
Lab ID: 1606631-005 **Matrix:** Groundwater
Client Sample ID: WDS-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	6/29/2016 5:01 AM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	6/29/2016 5:01 AM
Aroclor 1232	0.037	U	0.038	0.037	0.19	µg/L	1	6/29/2016 5:01 AM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	6/29/2016 5:01 AM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	6/29/2016 5:01 AM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	6/29/2016 5:01 AM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	6/29/2016 5:01 AM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	6/29/2016 5:01 AM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	6/29/2016 5:01 AM
Surr: Tetrachloro-m-xylene	57.2			40-135		%Rec	1	6/29/2016 5:01 AM
Surr: Decachlorobiphenyl	63.7			40-135		%Rec	1	6/29/2016 5:01 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	6,800		14	25	500	µg/L	50	7/28/2016 5:50 PM
Arsenic	0.90	J	0.61	1.0	1.5	µg/L	5	7/28/2016 2:59 PM
Barium	57		0.18	0.50	25	µg/L	5	7/28/2016 2:59 PM
Beryllium	0.34	GJ	0.25	0.50	1.0	µg/L	5	7/28/2016 2:59 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 2:59 PM
Calcium	34,000	X	90	120	1,000	µg/L	5	7/28/2016 2:59 PM
Chromium	11		0.30	0.50	10	µg/L	5	7/28/2016 2:59 PM
Cobalt	2.2	J	0.12	0.50	5.0	µg/L	5	7/28/2016 2:59 PM
Copper	3.3	GJ	0.24	0.50	5.0	µg/L	5	7/28/2016 2:59 PM
Iron	11,000		48	120	200	µg/L	5	7/28/2016 2:59 PM
Lead	5.0		0.24	0.50	1.0	µg/L	5	7/28/2016 2:59 PM
Magnesium	7,000		41	120	500	µg/L	5	7/28/2016 2:59 PM
Manganese	280	G	0.26	0.50	5.0	µg/L	5	7/28/2016 2:59 PM
Nickel	6.0	J	0.20	0.50	10	µg/L	5	7/28/2016 2:59 PM
Potassium	2,100		110	120	500	µg/L	5	7/28/2016 2:59 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/28/2016 2:59 PM
Sodium	26,000	X	58	120	500	µg/L	5	7/28/2016 2:59 PM
Thallium	0.26	J	0.16	0.50	2.0	µg/L	5	7/28/2016 2:59 PM
Vanadium	11		0.49	0.50	4.0	µg/L	5	7/28/2016 2:59 PM
Zinc	17	J	1.8	2.5	50	µg/L	5	7/28/2016 2:59 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.40	GJ	0.19	0.75	2.5	µg/L	5	7/12/2016 2:55 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 2:55 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:47 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 3:15:00 PM
Project:	Camp Hero		
Lab ID:	1606631-005	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.7	µg/L	1	6/26/2016 4:47 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2,4-Dimethyl phenol	0.93	U	0.52	0.93	4.7	µg/L	1	6/26/2016 4:47 PM
2,4-Dinitrophenol	9.3	YU	5.3	9.3	23	µg/L	1	6/26/2016 4:47 PM
2,4-Dinitrotoluene	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2,6-Dinitrotoluene	0.47	U	0.26	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2-Chloronaphthalene	0.93	U	0.65	0.93	4.7	µg/L	1	6/26/2016 4:47 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2-Nitrophenol	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
3,3´-Dichlorobenzidine	9.3	U	5.2	9.3	19	µg/L	1	6/26/2016 4:47 PM
3-Nitroaniline	0.93	U	0.32	0.93	9.3	µg/L	1	6/26/2016 4:47 PM
3/4-Methylphenol [m/p-Cresol]	0.93	U	0.36	0.93	9.3	µg/L	1	6/26/2016 4:47 PM
4,6-Dinitro-2-methylphenol	2.3	U	1.5	2.3	9.3	µg/L	1	6/26/2016 4:47 PM
4-Bromophenyl phenyl ether	2.3	U	0.94	2.3	4.7	µg/L	1	6/26/2016 4:47 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.3	µg/L	1	6/26/2016 4:47 PM
4-Chlorophenyl phenyl ether	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.3	µg/L	1	6/26/2016 4:47 PM
4-Nitrophenol	9.3	QU	4.3	9.3	23	µg/L	1	6/26/2016 4:47 PM
Benzoic acid	11	JY QZ	3.5	9.3	23	µg/L	1	6/26/2016 4:47 PM
Benzyl alcohol	0.47	U	0.37	0.47	23	µg/L	1	6/26/2016 4:47 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 4:47 PM
Bis(2-chloroisopropyl)ether	0.47	ZU	0.22	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Carbazole	0.47	U	0.090	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Dibenzofuran	0.31	J	0.18	0.47	3.7	µg/L	1	6/26/2016 4:47 PM
Diethyl phthalate	0.47	U	0.15	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 4:47 PM
Hexachlorobutadiene	0.47	U	0.29	0.47	0.93	µg/L	1	6/26/2016 4:47 PM
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Isophorone	0.93	U	0.91	0.93	4.7	µg/L	1	6/26/2016 4:47 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
N-Nitrosodimethylamine	0.47	QU	0.29	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
N-Nitrosodiphenylamine	0.47	YU	0.15	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/26/2016 4:47 PM
Pentachlorophenol	2.3	YU	1.5	2.3	4.7	µg/L	1	6/26/2016 4:47 PM
Phenol	0.47	QU	0.13	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Surr: 2,4,6-Tribromophenol	56.1			43-140		%Rec	1	6/26/2016 4:47 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 3:15:00 PM
Project: Camp Hero
Lab ID: 1606631-005 **Matrix:** Groundwater
Client Sample ID: WDS-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	39.6	Q		44-119		%Rec	1	6/26/2016 4:47 PM
Surr: 2-Fluorophenol	27.2	J		19-119		%Rec	1	6/26/2016 4:47 PM
Surr: Nitrobenzene-d5	40.2	Q		44-120		%Rec	1	6/26/2016 4:47 PM
Surr: Phenol-d5	18.2	JQ		30-130		%Rec	1	6/26/2016 4:47 PM
Surr: Terphenyl-d14	54.3			50-134		%Rec	1	6/26/2016 4:47 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
2-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Acenaphthene	2.9		0.093	0.093	0.093	µg/L	5	6/24/2016 10:41 PM
Acenaphthylene	0.026		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Anthracene	0.066		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Benz(a)anthracene	0.019		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Benzo(b)fluoranthene	0.030		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Fluoranthene	0.12		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Fluorene	0.059		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Naphthalene	0.045		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Phenanthrene	0.046		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Pyrene	0.075		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Surr: 2-Fluorobiphenyl	45.5	Q		53-106		%Rec	1	6/22/2016 11:08 PM
Surr: Nitrobenzene-d5	49.5	Q		55-111		%Rec	1	6/22/2016 11:08 PM
Surr: Terphenyl-d14	67.6			58-132		%Rec	1	6/22/2016 11:08 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 2:06 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 2:06 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 2:06 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 2:06 PM
Acetone	2.2	J	0.56	0.60	10	µg/L	1	6/28/2016 2:06 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 3:15:00 PM
Project:	Camp Hero		
Lab ID:	1606631-005	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 2:06 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 2:06 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 2:06 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 2:06 PM
Surr: 4-Bromofluorobenzene	95.5			85-114		%Rec	1	6/28/2016 2:06 PM
Surr: Dibromofluoromethane	85.9			80-119		%Rec	1	6/28/2016 2:06 PM
Surr: Toluene-d8	92.7			89-112		%Rec	1	6/28/2016 2:06 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/15/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606631-006	**Matrix:**	Water
Client Sample ID:	TB-GW-061516-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 2:31 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 2:31 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 2:31 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 2:31 PM
Acetone	3.2	J	0.56	0.60	10	µg/L	1	6/28/2016 2:31 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 2:31 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 2:31 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 2:31 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 2:31 PM
Surr: 4-Bromofluorobenzene	96.9			85-114		%Rec	1	6/28/2016 2:31 PM
Surr: Dibromofluoromethane	82.3			80-119		%Rec	1	6/28/2016 2:31 PM
Surr: Toluene-d8	91.7			89-112		%Rec	1	6/28/2016 2:31 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606631-007	**Matrix:**	Water
Client Sample ID:	TB-GW-061616-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	QU	0.43	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 3:42 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/27/2016 3:42 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 3:42 AM
2-Hexanone	1.0	YU	0.64	1.0	2.0	µg/L	1	6/27/2016 3:42 AM
Acetone	2.0	JY	0.56	0.60	10	µg/L	1	6/27/2016 3:42 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Bromodichloromethane	0.60	QU	0.33	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Bromoform	0.60	YQ U	0.25	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Chlorodibromomethane	0.60	QU	0.27	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 3:42 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Chloromethane	0.72	JB YQ	0.37	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
cis-1,3-Dichloropropene	0.60	QU	0.26	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Methylene chloride	0.59	J	0.27	0.60	5.0	µg/L	1	6/27/2016 3:42 AM
Styrene	0.60	QU	0.30	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Trichlorofluoromethane [Freon-11]	0.60	YQ U	0.55	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 3:42 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Xylene (total)	1.8	QU	1.3	1.8	3.0	µg/L	1	6/27/2016 3:42 AM
Surr: 4-Bromofluorobenzene	91.9			85-114		%Rec	1	6/27/2016 3:42 AM
Surr: Dibromofluoromethane	82.4			80-119		%Rec	1	6/27/2016 3:42 AM
Surr: Toluene-d8	87.3	Q		89-112		%Rec	1	6/27/2016 3:42 AM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606631-008	**Matrix:**	Groundwater
Client Sample ID:	P113-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	34		0.24	0.50	1.0	µg/L	5	7/13/2016 2:23 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
2-Methylnaphthalene	0.023		0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Naphthalene	0.027		0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Phenanthrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Surr: 2-Fluorobiphenyl	52.0	Q		53-106		%Rec	1	6/22/2016 11:35 PM
Surr: Nitrobenzene-d5	58.3			55-111		%Rec	1	6/22/2016 11:35 PM
Surr: Terphenyl-d14	64.7			58-132		%Rec	1	6/22/2016 11:35 PM
TCL for VOA Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 2:57 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 2:57 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 2:57 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 2:57 PM
Acetone	3.2	J	0.56	0.60	10	µg/L	1	6/28/2016 2:57 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 2:57 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606631-008	**Matrix:**	Groundwater
Client Sample ID:	P113-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 2:57 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 2:57 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 2:57 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 2:57 PM
Surr: 4-Bromofluorobenzene	96.0			85-114		%Rec	1	6/28/2016 2:57 PM
Surr: Dibromofluoromethane	82.5			80-119		%Rec	1	6/28/2016 2:57 PM
Surr: Toluene-d8	91.5			89-112		%Rec	1	6/28/2016 2:57 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 1:10:00 PM
Project:	Camp Hero		
Lab ID:	1606631-009	**Matrix:**	Groundwater
Client Sample ID:	P113-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	220		0.24	0.50	1.0	µg/L	5	7/13/2016 2:25 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
1,2-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
1,3-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
1,4-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2,4,5-Trichlorophenol	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2,4,6-Trichlorophenol	0.48	U	0.28	0.48	3.8	µg/L	1	6/26/2016 5:12 PM
2,4-Dichlorophenol	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2,4-Dimethyl phenol	0.95	U	0.53	0.95	4.8	µg/L	1	6/26/2016 5:12 PM
2,4-Dinitrophenol	9.5	YU	5.4	9.5	24	µg/L	1	6/26/2016 5:12 PM
2,4-Dinitrotoluene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2,6-Dinitrotoluene	0.48	U	0.27	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2-Chloronaphthalene	0.95	U	0.66	0.95	4.8	µg/L	1	6/26/2016 5:12 PM
2-Chlorophenol	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2-Methylphenol (o-Cresol)	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2-Nitroaniline	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2-Nitrophenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
3,3´-Dichlorobenzidine	9.5	U	5.3	9.5	19	µg/L	1	6/26/2016 5:12 PM
3-Nitroaniline	0.95	U	0.33	0.95	9.5	µg/L	1	6/26/2016 5:12 PM
3/4-Methylphenol [m/p-Cresol]	0.95	U	0.37	0.95	9.5	µg/L	1	6/26/2016 5:12 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.5	µg/L	1	6/26/2016 5:12 PM
4-Bromophenyl phenyl ether	2.4	U	0.96	2.4	4.8	µg/L	1	6/26/2016 5:12 PM
4-Chloro-3-methylphenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
4-Chloroaniline [p-Chloroaniline]	0.48	U	0.33	0.48	9.5	µg/L	1	6/26/2016 5:12 PM
4-Chlorophenyl phenyl ether	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
4-Nitroaniline	0.48	U	0.19	0.48	9.5	µg/L	1	6/26/2016 5:12 PM
4-Nitrophenol	9.5	QU	4.4	9.5	24	µg/L	1	6/26/2016 5:12 PM
Benzoic acid	12	JY QZ	3.5	9.5	24	µg/L	1	6/26/2016 5:12 PM
Benzyl alcohol	0.48	U	0.37	0.48	24	µg/L	1	6/26/2016 5:12 PM
Bis(2-chloroethoxy) methane	0.48	U	0.29	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Bis(2-chloroethyl) ether	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 5:12 PM
Bis(2-chloroisopropyl)ether	0.48	ZU	0.22	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Bis(2-ethylhexyl) phthalate	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Butyl benzyl phthalate	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Carbazole	0.48	U	0.091	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Di-n-butyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Di-n-octyl phthalate	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Dibenzofuran	0.48	U	0.18	0.48	3.8	µg/L	1	6/26/2016 5:12 PM
Diethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Dimethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Hexachlorobenzene	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 5:12 PM
Hexachlorobutadiene	0.48	U	0.30	0.48	0.95	µg/L	1	6/26/2016 5:12 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 1:10:00 PM
Project: Camp Hero
Lab ID: 1606631-009 **Matrix:** Groundwater
Client Sample ID: P113-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Hexachloroethane	0.48	U	0.22	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/26/2016 5:12 PM
N-Nitroso-di-n-propylamine	0.48	U	0.30	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
N-Nitrosodimethylamine	0.48	QU	0.30	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
N-Nitrosodiphenylamine	0.48	YU	0.15	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Nitrobenzene	0.48	U	0.25	0.48	2.9	µg/L	1	6/26/2016 5:12 PM
Pentachlorophenol	2.4	YU	1.6	2.4	4.8	µg/L	1	6/26/2016 5:12 PM
Phenol	0.48	QU	0.13	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Surr: 2,4,6-Tribromophenol	78.3			43-140		%Rec	1	6/26/2016 5:12 PM
Surr: 2-Fluorobiphenyl	57.6			44-119		%Rec	1	6/26/2016 5:12 PM
Surr: 2-Fluorophenol	38.3	J		19-119		%Rec	1	6/26/2016 5:12 PM
Surr: Nitrobenzene-d5	69.0			44-120		%Rec	1	6/26/2016 5:12 PM
Surr: Phenol-d5	26.8	JQ		30-130		%Rec	1	6/26/2016 5:12 PM
Surr: Terphenyl-d14	39.9	Q		50-134		%Rec	1	6/26/2016 5:12 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.050		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
2-Methylnaphthalene	0.056		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Acenaphthene	0.032		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Acenaphthylene	0.042		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Anthracene	0.039		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Benz(a)anthracene	0.28		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Benzo(a)pyrene	0.22		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Benzo(b)fluoranthene	0.44		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Benzo(g,h,i)perylene	0.13		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Benzo(k)fluoranthene	0.12		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Chrysene	0.20		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Dibenzo(a,h)anthracene	0.023		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Fluoranthene	0.42		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Fluorene	0.045		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Indeno(1,2,3-cd)pyrene	0.097		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Naphthalene	0.15		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Phenanthrene	0.31		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Pyrene	0.56		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Surr: 2-Fluorobiphenyl	47.5	Q		53-106		%Rec	1	6/23/2016 12:03 AM
Surr: Nitrobenzene-d5	85.6			55-111		%Rec	1	6/23/2016 12:03 AM
Surr: Terphenyl-d14	44.4	Q		58-132		%Rec	1	6/23/2016 12:03 AM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 3:35 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 3:35 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 1:10:00 PM
Project:	Camp Hero		
Lab ID:	1606631-009	**Matrix:**	Groundwater
Client Sample ID:	P113-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 3:35 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 3:35 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 3:35 PM
Acetone	5.1	J	0.56	0.60	10	µg/L	1	6/28/2016 3:35 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 3:35 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 3:35 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 3:35 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 3:35 PM
Surr: 4-Bromofluorobenzene	95.4			85-114		%Rec	1	6/28/2016 3:35 PM
Surr: Dibromofluoromethane	82.8			80-119		%Rec	1	6/28/2016 3:35 PM
Surr: Toluene-d8	92.6			89-112		%Rec	1	6/28/2016 3:35 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606631-010 **Matrix:** Groundwater
Client Sample ID: WDS-SB08-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/29/2016 5:25 AM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/29/2016 5:25 AM
Aroclor 1232	0.038	U	0.039	0.038	0.19	µg/L	1	6/29/2016 5:25 AM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/29/2016 5:25 AM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/29/2016 5:25 AM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 5:25 AM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/29/2016 5:25 AM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/29/2016 5:25 AM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/29/2016 5:25 AM
Surr: Tetrachloro-m-xylene	50.2			40-135		%Rec	1	6/29/2016 5:25 AM
Surr: Decachlorobiphenyl	45.3			40-135		%Rec	1	6/29/2016 5:25 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	78,000		14	25	500	µg/L	50	7/28/2016 5:54 PM
Arsenic	11		0.61	1.0	1.5	µg/L	5	7/28/2016 3:21 PM
Barium	740		0.18	0.50	25	µg/L	5	7/28/2016 3:21 PM
Beryllium	4.6	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:21 PM
Cadmium	1.1		0.27	0.50	1.0	µg/L	5	7/28/2016 3:21 PM
Calcium	38,000		450	620	5,000	µg/L	25	7/28/2016 7:09 PM
Chromium	180		1.5	2.5	50	µg/L	25	7/28/2016 7:09 PM
Cobalt	40		0.60	2.5	25	µg/L	25	7/28/2016 7:09 PM
Copper	120	G	1.2	2.5	25	µg/L	25	7/28/2016 7:09 PM
Iron	83,000		480	1,200	2,000	µg/L	50	7/28/2016 5:54 PM
Lead	190		0.24	0.50	1.0	µg/L	5	7/28/2016 3:21 PM
Magnesium	13,000		200	620	2,500	µg/L	25	7/28/2016 7:09 PM
Manganese	2,100		1.3	2.5	25	µg/L	25	7/28/2016 7:09 PM
Nickel	80		1.0	2.5	50	µg/L	25	7/28/2016 7:09 PM
Potassium	10,000		530	620	2,500	µg/L	25	7/28/2016 7:09 PM
Selenium	2.5	J	1.5	2.5	5.0	µg/L	5	7/28/2016 3:21 PM
Sodium	10,000		290	620	2,500	µg/L	25	7/28/2016 7:09 PM
Thallium	0.96	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:21 PM
Vanadium	140		2.4	2.5	20	µg/L	25	7/28/2016 7:09 PM
Zinc	150		1.8	2.5	50	µg/L	5	7/28/2016 3:21 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.1	GJ	0.19	0.75	2.5	µg/L	5	7/12/2016 2:56 PM
Silver	0.38	J	0.24	0.50	1.5	µg/L	5	7/12/2016 2:56 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
1,2-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
1,3-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
1,4-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:36 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606631-010	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB08-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2,4,6-Trichlorophenol	0.48	U	0.28	0.48	3.8	µg/L	1	6/26/2016 5:36 PM
2,4-Dichlorophenol	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2,4-Dimethyl phenol	0.95	U	0.53	0.95	4.8	µg/L	1	6/26/2016 5:36 PM
2,4-Dinitrophenol	9.5	YU	5.4	9.5	24	µg/L	1	6/26/2016 5:36 PM
2,4-Dinitrotoluene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2,6-Dinitrotoluene	0.48	U	0.27	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2-Chloronaphthalene	0.95	U	0.66	0.95	4.8	µg/L	1	6/26/2016 5:36 PM
2-Chlorophenol	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2-Methylphenol (o-Cresol)	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2-Nitroaniline	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2-Nitrophenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
3,3´-Dichlorobenzidine	9.5	U	5.3	9.5	19	µg/L	1	6/26/2016 5:36 PM
3-Nitroaniline	0.95	U	0.33	0.95	9.5	µg/L	1	6/26/2016 5:36 PM
3/4-Methylphenol [m/p-Cresol]	0.95	U	0.37	0.95	9.5	µg/L	1	6/26/2016 5:36 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.5	µg/L	1	6/26/2016 5:36 PM
4-Bromophenyl phenyl ether	2.4	U	0.96	2.4	4.8	µg/L	1	6/26/2016 5:36 PM
4-Chloro-3-methylphenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
4-Chloroaniline [p-Chloroaniline]	0.48	U	0.33	0.48	9.5	µg/L	1	6/26/2016 5:36 PM
4-Chlorophenyl phenyl ether	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
4-Nitroaniline	0.48	U	0.19	0.48	9.5	µg/L	1	6/26/2016 5:36 PM
4-Nitrophenol	9.5	QU	4.4	9.5	24	µg/L	1	6/26/2016 5:36 PM
Benzoic acid	9.5	YQ ZU	3.5	9.5	24	µg/L	1	6/26/2016 5:36 PM
Benzyl alcohol	0.48	U	0.37	0.48	24	µg/L	1	6/26/2016 5:36 PM
Bis(2-chloroethoxy) methane	0.48	U	0.29	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Bis(2-chloroethyl) ether	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 5:36 PM
Bis(2-chloroisopropyl)ether	0.48	ZU	0.22	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Bis(2-ethylhexyl) phthalate	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Butyl benzyl phthalate	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Carbazole	0.48	U	0.091	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Di-n-butyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Di-n-octyl phthalate	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Dibenzofuran	0.48	U	0.18	0.48	3.8	µg/L	1	6/26/2016 5:36 PM
Diethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Dimethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Hexachlorobenzene	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 5:36 PM
Hexachlorobutadiene	0.48	U	0.30	0.48	0.95	µg/L	1	6/26/2016 5:36 PM
Hexachloroethane	0.48	U	0.22	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/26/2016 5:36 PM
N-Nitroso-di-n-propylamine	0.48	U	0.30	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
N-Nitrosodimethylamine	0.48	QU	0.30	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
N-Nitrosodiphenylamine	0.48	YU	0.15	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Nitrobenzene	0.48	U	0.25	0.48	2.9	µg/L	1	6/26/2016 5:36 PM
Pentachlorophenol	2.4	YU	1.6	2.4	4.8	µg/L	1	6/26/2016 5:36 PM
Phenol	0.48	QU	0.13	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Surr: 2,4,6-Tribromophenol	44.8			43-140		%Rec	1	6/26/2016 5:36 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606631-010 **Matrix:** Groundwater
Client Sample ID: WDS-SB08-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	32.2	Q		44-119		%Rec	1	6/26/2016 5:36 PM
Surr: 2-Fluorophenol	24.6	J		19-119		%Rec	1	6/26/2016 5:36 PM
Surr: Nitrobenzene-d5	32.7	Q		44-120		%Rec	1	6/26/2016 5:36 PM
Surr: Phenol-d5	15.4	JQ		30-130		%Rec	1	6/26/2016 5:36 PM
Surr: Terphenyl-d14	53.6			50-134		%Rec	1	6/26/2016 5:36 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
2-Methylnaphthalene	0.024		0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Fluoranthene	0.019		0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Naphthalene	0.022		0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Phenanthrene	0.031		0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Pyrene	0.021		0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Surr: 2-Fluorobiphenyl	57.3			53-106		%Rec	1	6/23/2016 12:31 AM
Surr: Nitrobenzene-d5	56.2			55-111		%Rec	1	6/23/2016 12:31 AM
Surr: Terphenyl-d14	88.7			58-132		%Rec	1	6/23/2016 12:31 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 4:01 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 4:01 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 4:01 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 4:01 PM
Acetone	7.6	J	0.56	0.60	10	µg/L	1	6/28/2016 4:01 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606631-010	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB08-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 4:01 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 4:01 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 4:01 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 4:01 PM
Surr: 4-Bromofluorobenzene	95.8			85-114		%Rec	1	6/28/2016 4:01 PM
Surr: Dibromofluoromethane	83.4			80-119		%Rec	1	6/28/2016 4:01 PM
Surr: Toluene-d8	92.9			89-112		%Rec	1	6/28/2016 4:01 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 11:00:00 AM
Project: Camp Hero
Lab ID: 1606631-011 **Matrix:** Groundwater
Client Sample ID: WDS-SB15-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.039	U	0.031	0.039	0.098	µg/L	1	7/1/2016 7:09 PM
Aroclor 1221	0.039	U	0.029	0.039	0.098	µg/L	1	7/1/2016 7:09 PM
Aroclor 1232	0.039	U	0.040	0.039	0.20	µg/L	1	7/1/2016 7:09 PM
Aroclor 1242	0.039	U	0.036	0.039	0.20	µg/L	1	7/1/2016 7:09 PM
Aroclor 1248	0.039	U	0.030	0.039	0.098	µg/L	1	7/1/2016 7:09 PM
Aroclor 1254	0.039	U	0.039	0.039	0.20	µg/L	1	7/1/2016 7:09 PM
Aroclor 1260	0.039	U	0.034	0.039	0.20	µg/L	1	7/1/2016 7:09 PM
Aroclor 1262	0.098	U	0.050	0.098	0.20	µg/L	1	7/1/2016 7:09 PM
Aroclor 1268	0.039	U	0.027	0.039	0.098	µg/L	1	7/1/2016 7:09 PM
Surr: Tetrachloro-m-xylene	60.0			40-135		%Rec	1	7/1/2016 7:09 PM
Surr: Decachlorobiphenyl	55.2			40-135		%Rec	1	7/1/2016 7:09 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	32,000		14	25	500	µg/L	50	7/28/2016 5:55 PM
Arsenic	3.3		0.61	1.0	1.5	µg/L	5	7/28/2016 3:23 PM
Barium	250		0.18	0.50	25	µg/L	5	7/28/2016 3:23 PM
Beryllium	1.5	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:23 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 3:23 PM
Calcium	4,000		90	120	1,000	µg/L	5	7/28/2016 3:23 PM
Chromium	49		0.30	0.50	10	µg/L	5	7/28/2016 3:23 PM
Cobalt	9.5		0.12	0.50	5.0	µg/L	5	7/28/2016 3:23 PM
Copper	27	G	0.24	0.50	5.0	µg/L	5	7/28/2016 3:23 PM
Iron	28,000		48	120	200	µg/L	5	7/28/2016 3:23 PM
Lead	15		0.24	0.50	1.0	µg/L	5	7/28/2016 3:23 PM
Magnesium	9,100		41	120	500	µg/L	5	7/28/2016 3:23 PM
Manganese	460	G	0.26	0.50	5.0	µg/L	5	7/28/2016 3:23 PM
Nickel	23		0.20	0.50	10	µg/L	5	7/28/2016 3:23 PM
Potassium	6,200		110	120	500	µg/L	5	7/28/2016 3:23 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/28/2016 3:23 PM
Sodium	19,000		58	120	500	µg/L	5	7/28/2016 3:23 PM
Thallium	0.48	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:23 PM
Vanadium	46		0.49	0.50	4.0	µg/L	5	7/28/2016 3:23 PM
Zinc	68		1.8	2.5	50	µg/L	5	7/28/2016 3:23 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.30	GJ	0.19	0.75	2.5	µg/L	5	7/12/2016 2:57 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 2:57 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.50	U	0.25	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
1,2-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
1,3-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
1,4-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/26/2016 6:01 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 11:00:00 AM
Project:	Camp Hero		
Lab ID:	1606631-011	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB15-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.50	U	0.26	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2,4,6-Trichlorophenol	0.50	U	0.29	0.50	4.0	µg/L	1	6/26/2016 6:01 PM
2,4-Dichlorophenol	0.50	U	0.20	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2,4-Dimethyl phenol	0.99	U	0.55	0.99	5.0	µg/L	1	6/26/2016 6:01 PM
2,4-Dinitrophenol	9.9	YU	5.6	9.9	25	µg/L	1	6/26/2016 6:01 PM
2,4-Dinitrotoluene	0.50	U	0.25	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2,6-Dinitrotoluene	0.50	U	0.28	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2-Chloronaphthalene	0.99	U	0.69	0.99	5.0	µg/L	1	6/26/2016 6:01 PM
2-Chlorophenol	0.50	U	0.19	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2-Methylphenol (o-Cresol)	0.50	U	0.18	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2-Nitroaniline	0.50	U	0.24	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2-Nitrophenol	0.50	U	0.24	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
3,3´-Dichlorobenzidine	9.9	U	5.5	9.9	20	µg/L	1	6/26/2016 6:01 PM
3-Nitroaniline	0.99	U	0.34	0.99	9.9	µg/L	1	6/26/2016 6:01 PM
3/4-Methylphenol [m/p-Cresol]	0.99	U	0.38	0.99	9.9	µg/L	1	6/26/2016 6:01 PM
4,6-Dinitro-2-methylphenol	2.5	U	1.6	2.5	9.9	µg/L	1	6/26/2016 6:01 PM
4-Bromophenyl phenyl ether	2.5	U	1.0	2.5	5.0	µg/L	1	6/26/2016 6:01 PM
4-Chloro-3-methylphenol	0.50	U	0.24	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
4-Chloroaniline [p-Chloroaniline]	0.50	U	0.34	0.50	9.9	µg/L	1	6/26/2016 6:01 PM
4-Chlorophenyl phenyl ether	0.50	U	0.17	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
4-Nitroaniline	0.50	U	0.20	0.50	9.9	µg/L	1	6/26/2016 6:01 PM
4-Nitrophenol	9.9	QU	4.5	9.9	25	µg/L	1	6/26/2016 6:01 PM
Benzoic acid	9.9	YQ ZU	3.7	9.9	25	µg/L	1	6/26/2016 6:01 PM
Benzyl alcohol	0.50	U	0.39	0.50	25	µg/L	1	6/26/2016 6:01 PM
Bis(2-chloroethoxy) methane	0.50	U	0.30	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Bis(2-chloroethyl) ether	0.50	U	0.23	0.50	0.99	µg/L	1	6/26/2016 6:01 PM
Bis(2-chloroisopropyl)ether	0.50	ZU	0.23	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Bis(2-ethylhexyl) phthalate	0.50	U	0.26	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Butyl benzyl phthalate	0.50	U	0.24	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Carbazole	0.50	U	0.095	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Di-n-butyl phthalate	0.50	U	0.20	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Di-n-octyl phthalate	0.50	U	0.19	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Dibenzofuran	0.50	U	0.19	0.50	4.0	µg/L	1	6/26/2016 6:01 PM
Diethyl phthalate	0.50	U	0.16	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Dimethyl phthalate	0.50	U	0.17	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Hexachlorobenzene	0.50	U	0.23	0.50	0.99	µg/L	1	6/26/2016 6:01 PM
Hexachlorobutadiene	0.50	U	0.31	0.50	0.99	µg/L	1	6/26/2016 6:01 PM
Hexachloroethane	0.50	U	0.23	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Isophorone	0.99	U	0.96	0.99	5.0	µg/L	1	6/26/2016 6:01 PM
N-Nitroso-di-n-propylamine	0.50	U	0.31	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
N-Nitrosodimethylamine	0.50	QU	0.31	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
N-Nitrosodiphenylamine	0.50	YU	0.16	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Nitrobenzene	0.50	U	0.26	0.50	3.0	µg/L	1	6/26/2016 6:01 PM
Pentachlorophenol	2.5	YU	1.6	2.5	5.0	µg/L	1	6/26/2016 6:01 PM
Phenol	0.50	QU	0.14	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Surr: 2,4,6-Tribromophenol	69.3			43-140		%Rec	1	6/26/2016 6:01 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 11:00:00 AM
Project: Camp Hero
Lab ID: 1606631-011 **Matrix:** Groundwater
Client Sample ID: WDS-SB15-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	46.3			44-119		%Rec	1	6/26/2016 6:01 PM
Surr: 2-Fluorophenol	26.3	J		19-119		%Rec	1	6/26/2016 6:01 PM
Surr: Nitrobenzene-d5	48.7			44-120		%Rec	1	6/26/2016 6:01 PM
Surr: Phenol-d5	17.5	JQ		30-130		%Rec	1	6/26/2016 6:01 PM
Surr: Terphenyl-d14	63.5			50-134		%Rec	1	6/26/2016 6:01 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
2-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Acenaphthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Benzo(b)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Fluorene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Naphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Phenanthrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Surr: 2-Fluorobiphenyl	52.6	Q		53-106		%Rec	1	6/23/2016 12:59 AM
Surr: Nitrobenzene-d5	52.5	Q		55-111		%Rec	1	6/23/2016 12:59 AM
Surr: Terphenyl-d14	88.3			58-132		%Rec	1	6/23/2016 12:59 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 4:26 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 4:26 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 4:26 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 4:26 PM
Acetone	4.4	J	0.56	0.60	10	µg/L	1	6/28/2016 4:26 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 11:00:00 AM
Project:	Camp Hero		
Lab ID:	1606631-011	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB15-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 4:26 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 4:26 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 4:26 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 4:26 PM
Surr: 4-Bromofluorobenzene	94.5			85-114		%Rec	1	6/28/2016 4:26 PM
Surr: Dibromofluoromethane	81.2			80-119		%Rec	1	6/28/2016 4:26 PM
Surr: Toluene-d8	93.4			89-112		%Rec	1	6/28/2016 4:26 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606631-012	**Matrix:**	Water
Client Sample ID:	TB-GW-061716-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	QU	0.43	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 4:07 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/27/2016 4:07 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 4:07 AM
2-Hexanone	1.0	YU	0.64	1.0	2.0	µg/L	1	6/27/2016 4:07 AM
Acetone	3.4	JY	0.56	0.60	10	µg/L	1	6/27/2016 4:07 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Bromodichloromethane	0.60	QU	0.33	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Bromoform	0.60	YQ U	0.25	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Chlorodibromomethane	0.60	QU	0.27	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 4:07 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Chloromethane	0.73	JB YQ	0.37	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
cis-1,3-Dichloropropene	0.60	QU	0.26	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Methylene chloride	0.41	J	0.27	0.60	5.0	µg/L	1	6/27/2016 4:07 AM
Styrene	0.60	QU	0.30	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Trichlorofluoromethane [Freon-11]	0.60	YQ U	0.55	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 4:07 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Xylene (total)	1.8	QU	1.3	1.8	3.0	µg/L	1	6/27/2016 4:07 AM
Surr: 4-Bromofluorobenzene	92.2			85-114		%Rec	1	6/27/2016 4:07 AM
Surr: Dibromofluoromethane	82.9			80-119		%Rec	1	6/27/2016 4:07 AM
Surr: Toluene-d8	86.6	Q		89-112		%Rec	1	6/27/2016 4:07 AM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 8:10:00 AM
Project:	Camp Hero		
Lab ID:	1606631-013	**Matrix:**	Water
Client Sample ID:	TB-GW-061616-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	QU	0.43	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 4:32 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/27/2016 4:32 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 4:32 AM
2-Hexanone	1.0	YU	0.64	1.0	2.0	µg/L	1	6/27/2016 4:32 AM
Acetone	4.5	JY	0.56	0.60	10	µg/L	1	6/27/2016 4:32 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Bromodichloromethane	0.60	QU	0.33	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Bromoform	0.60	YQU	0.25	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Chlorodibromomethane	0.60	QU	0.27	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 4:32 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Chloromethane	0.72	JBYQ	0.37	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
cis-1,3-Dichloropropene	0.60	QU	0.26	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Methylene chloride	0.47	J	0.27	0.60	5.0	µg/L	1	6/27/2016 4:32 AM
Styrene	0.60	QU	0.30	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Trichlorofluoromethane [Freon-11]	0.60	YQU	0.55	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 4:32 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Xylene (total)	1.8	QU	1.3	1.8	3.0	µg/L	1	6/27/2016 4:32 AM
Surr: 4-Bromofluorobenzene	93.0			85-114		%Rec	1	6/27/2016 4:32 AM
Surr: Dibromofluoromethane	80.7			80-119		%Rec	1	6/27/2016 4:32 AM
Surr: Toluene-d8	87.4	Q		89-112		%Rec	1	6/27/2016 4:32 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606631-014 **Matrix:** Groundwater
Client Sample ID: WDS-SB12-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.039	U	0.031	0.039	0.097	µg/L	1	6/29/2016 6:14 AM
Aroclor 1221	0.039	U	0.029	0.039	0.097	µg/L	1	6/29/2016 6:14 AM
Aroclor 1232	0.039	U	0.040	0.039	0.19	µg/L	1	6/29/2016 6:14 AM
Aroclor 1242	0.039	U	0.036	0.039	0.19	µg/L	1	6/29/2016 6:14 AM
Aroclor 1248	0.039	U	0.030	0.039	0.097	µg/L	1	6/29/2016 6:14 AM
Aroclor 1254	0.039	U	0.039	0.039	0.19	µg/L	1	6/29/2016 6:14 AM
Aroclor 1260	0.039	U	0.034	0.039	0.19	µg/L	1	6/29/2016 6:14 AM
Aroclor 1262	0.097	U	0.050	0.097	0.19	µg/L	1	6/29/2016 6:14 AM
Aroclor 1268	0.039	U	0.027	0.039	0.097	µg/L	1	6/29/2016 6:14 AM
Surr: Tetrachloro-m-xylene	64.0			40-135		%Rec	1	6/29/2016 6:14 AM
Surr: Decachlorobiphenyl	58.5			40-135		%Rec	1	6/29/2016 6:14 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	30,000		14	25	500	µg/L	50	7/28/2016 5:56 PM
Arsenic	10		0.61	1.0	1.5	µg/L	5	7/28/2016 3:25 PM
Barium	140		0.18	0.50	25	µg/L	5	7/28/2016 3:25 PM
Beryllium	1.4	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:25 PM
Cadmium	0.32	J	0.27	0.50	1.0	µg/L	5	7/28/2016 3:25 PM
Calcium	6,800		90	120	1,000	µg/L	5	7/28/2016 3:25 PM
Chromium	50		0.30	0.50	10	µg/L	5	7/28/2016 3:25 PM
Cobalt	18		0.12	0.50	5.0	µg/L	5	7/28/2016 3:25 PM
Copper	26	G	0.24	0.50	5.0	µg/L	5	7/28/2016 3:25 PM
Iron	40,000		48	120	200	µg/L	5	7/28/2016 3:25 PM
Lead	21		0.24	0.50	1.0	µg/L	5	7/28/2016 3:25 PM
Magnesium	7,400		41	120	500	µg/L	5	7/28/2016 3:25 PM
Manganese	1,200	G	0.26	0.50	5.0	µg/L	5	7/28/2016 3:25 PM
Nickel	27		0.20	0.50	10	µg/L	5	7/28/2016 3:25 PM
Potassium	5,300		110	120	500	µg/L	5	7/28/2016 3:25 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/28/2016 3:25 PM
Sodium	13,000		58	120	500	µg/L	5	7/28/2016 3:25 PM
Thallium	0.38	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:25 PM
Vanadium	46		0.49	0.50	4.0	µg/L	5	7/28/2016 3:25 PM
Zinc	69		1.8	2.5	50	µg/L	5	7/28/2016 3:25 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.34	GJ	0.19	0.75	2.5	µg/L	5	7/12/2016 2:58 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 2:58 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.49	U	0.25	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
1,2-Dichlorobenzene	0.49	U	0.21	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
1,3-Dichlorobenzene	0.49	U	0.21	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
1,4-Dichlorobenzene	0.49	U	0.21	0.49	4.9	µg/L	1	6/26/2016 6:26 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606631-014	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB12-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.49	U	0.26	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2,4,6-Trichlorophenol	0.49	U	0.29	0.49	3.9	µg/L	1	6/26/2016 6:26 PM
2,4-Dichlorophenol	0.49	U	0.19	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2,4-Dimethyl phenol	0.98	U	0.54	0.98	4.9	µg/L	1	6/26/2016 6:26 PM
2,4-Dinitrophenol	9.8	YU	5.6	9.8	25	µg/L	1	6/26/2016 6:26 PM
2,4-Dinitrotoluene	0.49	U	0.25	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2,6-Dinitrotoluene	0.49	U	0.28	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2-Chloronaphthalene	0.98	U	0.68	0.98	4.9	µg/L	1	6/26/2016 6:26 PM
2-Chlorophenol	0.49	U	0.19	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2-Methylphenol (o-Cresol)	0.49	U	0.18	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2-Nitroaniline	0.49	U	0.24	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2-Nitrophenol	0.49	U	0.24	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
3,3´-Dichlorobenzidine	9.8	U	5.4	9.8	20	µg/L	1	6/26/2016 6:26 PM
3-Nitroaniline	0.98	U	0.34	0.98	9.8	µg/L	1	6/26/2016 6:26 PM
3/4-Methylphenol [m/p-Cresol]	0.98	U	0.38	0.98	9.8	µg/L	1	6/26/2016 6:26 PM
4,6-Dinitro-2-methylphenol	2.5	U	1.5	2.5	9.8	µg/L	1	6/26/2016 6:26 PM
4-Bromophenyl phenyl ether	2.5	U	0.99	2.5	4.9	µg/L	1	6/26/2016 6:26 PM
4-Chloro-3-methylphenol	0.49	U	0.24	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
4-Chloroaniline [p-Chloroaniline]	0.49	U	0.34	0.49	9.8	µg/L	1	6/26/2016 6:26 PM
4-Chlorophenyl phenyl ether	0.49	U	0.17	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
4-Nitroaniline	0.49	U	0.19	0.49	9.8	µg/L	1	6/26/2016 6:26 PM
4-Nitrophenol	9.8	QU	4.5	9.8	25	µg/L	1	6/26/2016 6:26 PM
Benzoic acid	9.8	YQ ZU	3.6	9.8	25	µg/L	1	6/26/2016 6:26 PM
Benzyl alcohol	0.49	U	0.38	0.49	25	µg/L	1	6/26/2016 6:26 PM
Bis(2-chloroethoxy) methane	0.49	U	0.30	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Bis(2-chloroethyl) ether	0.49	U	0.23	0.49	0.98	µg/L	1	6/26/2016 6:26 PM
Bis(2-chloroisopropyl)ether	0.49	ZU	0.23	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Bis(2-ethylhexyl) phthalate	0.49	U	0.26	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Butyl benzyl phthalate	0.49	U	0.24	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Carbazole	0.49	U	0.094	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Di-n-butyl phthalate	0.49	U	0.20	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Di-n-octyl phthalate	0.49	U	0.19	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Dibenzofuran	0.49	U	0.19	0.49	3.9	µg/L	1	6/26/2016 6:26 PM
Diethyl phthalate	0.49	U	0.16	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Dimethyl phthalate	0.49	U	0.17	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Hexachlorobenzene	0.49	U	0.23	0.49	0.98	µg/L	1	6/26/2016 6:26 PM
Hexachlorobutadiene	0.49	U	0.31	0.49	0.98	µg/L	1	6/26/2016 6:26 PM
Hexachloroethane	0.49	U	0.23	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Isophorone	0.98	U	0.95	0.98	4.9	µg/L	1	6/26/2016 6:26 PM
N-Nitroso-di-n-propylamine	0.49	U	0.31	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
N-Nitrosodimethylamine	0.49	QU	0.31	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
N-Nitrosodiphenylamine	0.49	YU	0.15	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Nitrobenzene	0.49	U	0.26	0.49	2.9	µg/L	1	6/26/2016 6:26 PM
Pentachlorophenol	2.5	YU	1.6	2.5	4.9	µg/L	1	6/26/2016 6:26 PM
Phenol	0.49	QU	0.14	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Surr: 2,4,6-Tribromophenol	77.4			43-140		%Rec	1	6/26/2016 6:26 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606631-014	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB12-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	51.2			44-119		%Rec	1	6/26/2016 6:26 PM
Surr: 2-Fluorophenol	30.3	J		19-119		%Rec	1	6/26/2016 6:26 PM
Surr: Nitrobenzene-d5	50.0			44-120		%Rec	1	6/26/2016 6:26 PM
Surr: Phenol-d5	19.0	JQ		30-130		%Rec	1	6/26/2016 6:26 PM
Surr: Terphenyl-d14	74.0			50-134		%Rec	1	6/26/2016 6:26 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
2-Methylnaphthalene	0.023		0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Acenaphthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Benzo(b)fluoranthene	0.023		0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Fluoranthene	0.024		0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Fluorene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Naphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Phenanthrene	0.028		0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Pyrene	0.021		0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Surr: 2-Fluorobiphenyl	67.5			53-106		%Rec	1	6/23/2016 1:27 AM
Surr: Nitrobenzene-d5	67.6			55-111		%Rec	1	6/23/2016 1:27 AM
Surr: Terphenyl-d14	94.2			58-132		%Rec	1	6/23/2016 1:27 AM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 5:07 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 5:07 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 5:07 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 5:07 PM
Acetone	16		0.56	0.60	10	µg/L	1	6/28/2016 5:07 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606631-014	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB12-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 5:07 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 5:07 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 5:07 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 5:07 PM
Surr: 4-Bromofluorobenzene	96.7			85-114		%Rec	1	6/28/2016 5:07 PM
Surr: Dibromofluoromethane	82.6			80-119		%Rec	1	6/28/2016 5:07 PM
Surr: Toluene-d8	91.4			89-112		%Rec	1	6/28/2016 5:07 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 12:05:00 PM
Project: Camp Hero
Lab ID: 1606631-015 **Matrix:** Groundwater
Client Sample ID: WDS-SB13-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	7/6/2016 6:39 PM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	7/6/2016 6:39 PM
Aroclor 1232	0.038	U	0.039	0.038	0.19	µg/L	1	7/6/2016 6:39 PM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	7/6/2016 6:39 PM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	7/6/2016 6:39 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	7/6/2016 6:39 PM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	7/6/2016 6:39 PM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	7/6/2016 6:39 PM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	7/6/2016 6:39 PM
Surr: Tetrachloro-m-xylene	86.8			40-135		%Rec	1	7/6/2016 6:39 PM
Surr: Decachlorobiphenyl	44.8			40-135		%Rec	1	7/6/2016 6:39 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	4,700		1.4	2.5	50	µg/L	5	7/28/2016 3:28 PM
Arsenic	1.0	U	0.61	1.0	1.5	µg/L	5	7/28/2016 3:28 PM
Barium	65		0.18	0.50	25	µg/L	5	7/28/2016 3:28 PM
Beryllium	0.37	GJ	0.25	0.50	1.0	µg/L	5	7/28/2016 3:28 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 3:28 PM
Calcium	6,900		90	120	1,000	µg/L	5	7/28/2016 3:28 PM
Chromium	7.3	J	0.30	0.50	10	µg/L	5	7/28/2016 3:28 PM
Cobalt	2.3	J	0.12	0.50	5.0	µg/L	5	7/28/2016 3:28 PM
Copper	4.5	GJ	0.24	0.50	5.0	µg/L	5	7/28/2016 3:28 PM
Iron	4,600		48	120	200	µg/L	5	7/28/2016 3:28 PM
Lead	9.3		0.24	0.50	1.0	µg/L	5	7/28/2016 3:28 PM
Magnesium	6,000		41	120	500	µg/L	5	7/28/2016 3:28 PM
Manganese	96	G	0.26	0.50	5.0	µg/L	5	7/28/2016 3:28 PM
Nickel	4.6	J	0.20	0.50	10	µg/L	5	7/28/2016 3:28 PM
Potassium	2,200		110	120	500	µg/L	5	7/28/2016 3:28 PM
Selenium	1.5	J	1.5	2.5	5.0	µg/L	5	7/28/2016 3:28 PM
Sodium	55,000		580	1,200	5,000	µg/L	50	7/28/2016 5:57 PM
Thallium	0.50	U	0.16	0.50	2.0	µg/L	5	7/28/2016 3:28 PM
Vanadium	9.8		0.49	0.50	4.0	µg/L	5	7/28/2016 3:28 PM
Zinc	11	J	1.8	2.5	50	µg/L	5	7/28/2016 3:28 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.75	GU	0.19	0.75	2.5	µg/L	5	7/12/2016 2:58 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 2:58 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
1,2-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
1,3-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
1,4-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 6:51 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 12:05:00 PM
Project:	Camp Hero		
Lab ID:	1606631-015	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB13-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2,4,6-Trichlorophenol	0.48	U	0.28	0.48	3.8	µg/L	1	6/26/2016 6:51 PM
2,4-Dichlorophenol	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2,4-Dimethyl phenol	0.95	U	0.53	0.95	4.8	µg/L	1	6/26/2016 6:51 PM
2,4-Dinitrophenol	9.5	YU	5.4	9.5	24	µg/L	1	6/26/2016 6:51 PM
2,4-Dinitrotoluene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2,6-Dinitrotoluene	0.48	U	0.27	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2-Chloronaphthalene	0.95	U	0.66	0.95	4.8	µg/L	1	6/26/2016 6:51 PM
2-Chlorophenol	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2-Methylphenol (o-Cresol)	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2-Nitroaniline	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2-Nitrophenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
3,3´-Dichlorobenzidine	9.5	U	5.3	9.5	19	µg/L	1	6/26/2016 6:51 PM
3-Nitroaniline	0.95	U	0.33	0.95	9.5	µg/L	1	6/26/2016 6:51 PM
3/4-Methylphenol [m/p-Cresol]	0.95	U	0.37	0.95	9.5	µg/L	1	6/26/2016 6:51 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.5	µg/L	1	6/26/2016 6:51 PM
4-Bromophenyl phenyl ether	2.4	U	0.96	2.4	4.8	µg/L	1	6/26/2016 6:51 PM
4-Chloro-3-methylphenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
4-Chloroaniline [p-Chloroaniline]	0.48	U	0.33	0.48	9.5	µg/L	1	6/26/2016 6:51 PM
4-Chlorophenyl phenyl ether	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
4-Nitroaniline	0.48	U	0.19	0.48	9.5	µg/L	1	6/26/2016 6:51 PM
4-Nitrophenol	9.5	QU	4.4	9.5	24	µg/L	1	6/26/2016 6:51 PM
Benzoic acid	9.5	YQ ZU	3.5	9.5	24	µg/L	1	6/26/2016 6:51 PM
Benzyl alcohol	0.48	U	0.37	0.48	24	µg/L	1	6/26/2016 6:51 PM
Bis(2-chloroethoxy) methane	0.48	U	0.29	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Bis(2-chloroethyl) ether	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 6:51 PM
Bis(2-chloroisopropyl)ether	0.48	ZU	0.22	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Bis(2-ethylhexyl) phthalate	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Butyl benzyl phthalate	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Carbazole	0.48	U	0.091	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Di-n-butyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Di-n-octyl phthalate	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Dibenzofuran	0.48	U	0.18	0.48	3.8	µg/L	1	6/26/2016 6:51 PM
Diethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Dimethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Hexachlorobenzene	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 6:51 PM
Hexachlorobutadiene	0.48	U	0.30	0.48	0.95	µg/L	1	6/26/2016 6:51 PM
Hexachloroethane	0.48	U	0.22	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/26/2016 6:51 PM
N-Nitroso-di-n-propylamine	0.48	U	0.30	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
N-Nitrosodimethylamine	0.48	QU	0.30	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
N-Nitrosodiphenylamine	0.48	YU	0.15	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Nitrobenzene	0.48	U	0.25	0.48	2.9	µg/L	1	6/26/2016 6:51 PM
Pentachlorophenol	2.4	YU	1.6	2.4	4.8	µg/L	1	6/26/2016 6:51 PM
Phenol	0.48	QU	0.13	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Surr: 2,4,6-Tribromophenol	77.6			43-140		%Rec	1	6/26/2016 6:51 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 12:05:00 PM
Project: Camp Hero
Lab ID: 1606631-015 **Matrix:** Groundwater
Client Sample ID: WDS-SB13-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	57.6			44-119		%Rec	1	6/26/2016 6:51 PM
Surr: 2-Fluorophenol	36.7	J		19-119		%Rec	1	6/26/2016 6:51 PM
Surr: Nitrobenzene-d5	58.4			44-120		%Rec	1	6/26/2016 6:51 PM
Surr: Phenol-d5	23.2	JQ		30-130		%Rec	1	6/26/2016 6:51 PM
Surr: Terphenyl-d14	78.5			50-134		%Rec	1	6/26/2016 6:51 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.032		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
2-Methylnaphthalene	0.035		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Acenaphthene	0.057		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Acenaphthylene	0.022		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Anthracene	0.14		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Benz(a)anthracene	0.95		0.093	0.093	0.093	µg/L	5	6/24/2016 11:08 PM
Benzo(a)pyrene	0.69		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Benzo(b)fluoranthene	1.2		0.093	0.093	0.093	µg/L	5	6/24/2016 11:08 PM
Benzo(g,h,i)perylene	0.37		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Benzo(k)fluoranthene	0.30		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Chrysene	0.61		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Dibenzo(a,h)anthracene	0.13		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Fluoranthene	1.9		0.093	0.093	0.093	µg/L	5	6/24/2016 11:08 PM
Fluorene	0.071		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Indeno(1,2,3-cd)pyrene	0.37		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Naphthalene	0.052		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Phenanthrene	0.76		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Pyrene	1.4		0.093	0.093	0.093	µg/L	5	6/24/2016 11:08 PM
Surr: 2-Fluorobiphenyl	59.6			53-106		%Rec	1	6/23/2016 1:54 AM
Surr: Nitrobenzene-d5	68.4			55-111		%Rec	1	6/23/2016 1:54 AM
Surr: Terphenyl-d14	66.7			58-132		%Rec	1	6/23/2016 1:54 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 5:33 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,2-Dibromo-3-chloropropane	2.0	YQ U	1.0	2.0	5.0	µg/L	1	6/28/2016 5:33 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 5:33 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 5:33 PM
Acetone	1.8	J	0.56	0.60	10	µg/L	1	6/28/2016 5:33 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/6/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 12:05:00 PM
Project:	Camp Hero		
Lab ID:	1606631-015	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB13-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Bromoform	0.60	QU	0.25	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Chlorobenzene	0.60	QU	0.47	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 5:33 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 5:33 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 5:33 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 5:33 PM
Surr: 4-Bromofluorobenzene	96.0			85-114		%Rec	1	6/28/2016 5:33 PM
Surr: Dibromofluoromethane	81.0			80-119		%Rec	1	6/28/2016 5:33 PM
Surr: Toluene-d8	91.6			89-112		%Rec	1	6/28/2016 5:33 PM

RTI Laboratories - DATES REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606631-001A	WDS-SB10-GW	6/15/2016 3:45 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 8:17 AM	6/27/2016 8:17 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 12:22 PM	6/28/2016 12:22 PM
1606631-001B	WDS-SB10-GW	6/15/2016 3:45 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 9:18 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 3:07 PM
1606631-001C	WDS-SB10-GW	6/15/2016 3:45 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 3:48 AM
1606631-001D	WDS-SB10-GW	6/15/2016 3:45 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:15 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:51 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 7:07 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:53 PM
1606631-002A	P113-SB02-GW	6/16/2016 12:20 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 8:42 AM	6/27/2016 8:42 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 12:48 PM	6/28/2016 12:48 PM
1606631-002B	P113-SB02-GW	6/16/2016 12:20 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 9:45 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 3:32 PM
1606631-002C	P113-SB02-GW	6/16/2016 12:20 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:05 PM
1606631-003A	WDS-SB01-GW	6/16/2016 2:20 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 9:07 AM	6/27/2016 9:07 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 1:14 PM	6/28/2016 1:14 PM
1606631-003B	WDS-SB01-GW	6/16/2016 2:20 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 10:12 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 9:15 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	8/4/2016 6:29 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	8/5/2016 2:52 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 3:57 PM
1606631-003C	WDS-SB01-GW	6/16/2016 2:20 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 4:12 AM

RTI Laboratories - DATES REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606631-003D	WDS-SB01-GW	6/16/2016 2:20 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:17 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:52 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:54 PM
1606631-004A	WDS-SB02-GW	6/16/2016 2:45 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 9:42 AM	6/27/2016 9:42 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 1:40 PM	6/28/2016 1:40 PM
1606631-004B	WDS-SB02-GW	6/16/2016 2:45 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 10:40 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 9:43 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 10:12 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/28/2016 4:10 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/28/2016 4:38 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 4:22 PM
1606631-004C	WDS-SB02-GW	6/16/2016 2:45 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 4:36 AM
1606631-004D	WDS-SB02-GW	6/16/2016 2:45 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:19 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:53 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:55 PM
1606631-005A	WDS-SB03-GW	6/16/2016 3:15 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 10:06 AM	6/27/2016 10:06 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 2:06 PM	6/28/2016 2:06 PM
1606631-005B	WDS-SB03-GW	6/16/2016 3:15 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 11:08 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 10:41 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 4:47 PM
1606631-005C	WDS-SB03-GW	6/16/2016 3:15 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 5:01 AM
1606631-005D	WDS-SB03-GW	6/16/2016 3:15 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 2:59 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:50 PM

RTI Laboratories - DATES REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606631-005D	WDS-SB03-GW	6/16/2016 3:15 PM	Groundwater				
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:55 PM
1606631-006A	TB-GW-061516-01	6/15/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/27/2016 10:32 AM	6/27/2016 10:32 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 2:31 PM	6/28/2016 2:31 PM
1606631-007A	TB-GW-061616-01	6/16/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/27/2016 3:42 AM	6/27/2016 3:42 AM
1606631-008A	P113-SB01-GW	6/16/2016 11:45 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 2:57 PM	6/28/2016 2:57 PM
1606631-008B	P113-SB01-GW	6/16/2016 11:45 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 11:35 PM
1606631-008C	P113-SB01-GW	6/16/2016 11:45 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:23 PM
1606631-009A	P113-SB03-GW	6/16/2016 1:10 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 3:35 PM	6/28/2016 3:35 PM
1606631-009B	P113-SB03-GW	6/16/2016 1:10 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 12:03 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 5:12 PM
1606631-009C	P113-SB03-GW	6/16/2016 1:10 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:25 PM
1606631-010A	WDS-SB08-GW	6/17/2016 10:55 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 4:01 PM	6/28/2016 4:01 PM
1606631-010B	WDS-SB08-GW	6/17/2016 10:55 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 12:31 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 5:36 PM
1606631-010C	WDS-SB08-GW	6/17/2016 10:55 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 5:25 AM
1606631-010D	WDS-SB08-GW	6/17/2016 10:55 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:21 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:54 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 7:09 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:56 PM

RTI Laboratories - DATES REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606631-011A	WDS-SB15-GW	6/17/2016 11:00 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 4:26 PM	6/28/2016 4:26 PM
1606631-011B	WDS-SB15-GW	6/17/2016 11:00 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 12:59 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 6:01 PM
1606631-011C	WDS-SB15-GW	6/17/2016 11:00 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 5:49 AM
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	7/1/2016 7:09 PM
1606631-011D	WDS-SB15-GW	6/17/2016 11:00 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:23 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:55 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:57 PM
1606631-012A	TB-GW-061716-01	6/17/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/27/2016 4:07 AM	6/27/2016 4:07 AM
1606631-013A	TB-GW-061616-02	6/16/2016 8:10 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/27/2016 4:32 AM	6/27/2016 4:32 AM
1606631-014A	WDS-SB12-GW	6/17/2016 12:30 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 5:07 PM	6/28/2016 5:07 PM
1606631-014B	WDS-SB12-GW	6/17/2016 12:30 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 1:27 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 6:26 PM
1606631-014C	WDS-SB12-GW	6/17/2016 12:30 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 6:14 AM
1606631-014D	WDS-SB12-GW	6/17/2016 12:30 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:25 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:56 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:58 PM
1606631-015A	WDS-SB13-GW	6/17/2016 12:05 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 5:33 PM	6/28/2016 5:33 PM
1606631-015B	WDS-SB13-GW	6/17/2016 12:05 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 1:54 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 11:08 PM

RTI Laboratories - DATES REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606631-015B	WDS-SB13-GW	6/17/2016 12:05 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/28/2016 5:06 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 6:51 PM
1606631-015C	WDS-SB13-GW	6/17/2016 12:05 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 6:39 PM
1606631-015D	WDS-SB13-GW	6/17/2016 12:05 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:28 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:57 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:58 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	MB-40213	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	PBW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									U
Pyrene	0.020	0.020									U
Surr: 2,4,6-Tribromophenol	0		0.5000		0	46	122				QU
Surr: 2-Fluorobiphenyl	0.43		0.5000		85.2	53	106				
Surr: 2-Fluorophenol	0		0.5000		0	40	130				QU
Surr: Nitrobenzene-d5	0.46		0.5000		91.2	55	111				
Surr: Phenol-d5	0		0.5000		0	40	130				QU
Surr: Terphenyl-d14	0.57		0.5000		113	58	132				

Sample ID:	LCS-40213	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	LCSW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698439

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.34	0.020	0.4000	0	84.8	41	115				
2-Methylnaphthalene	0.32	0.020	0.4000	0	80.7	39	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	LCS-40213	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	LCSW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698439

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthene	0.33	0.020	0.4000	0	83.5	48	114				
Acenaphthylene	0.32	0.020	0.4000	0	80.3	35	121				
Anthracene	0.35	0.020	0.4000	0	86.5	53	119				
Benz(a)anthracene	0.46	0.020	0.4000	0	116	59	120				
Benzo(a)pyrene	0.34	0.020	0.4000	0	85.8	53	120				
Benzo(b)fluoranthene	0.46	0.020	0.4000	0	115	53	126				
Benzo(g,h,i)perylene	0.38	0.020	0.4000	0	96.0	44	128				
Benzo(k)fluoranthene	0.31	0.020	0.4000	0	78.3	54	125				
Chrysene	0.32	0.020	0.4000	0	78.8	57	120				
Dibenzo(a,h)anthracene	0.40	0.020	0.4000	0	99.8	44	131				
Fluoranthene	0.35	0.020	0.4000	0	86.6	58	120				
Fluorene	0.35	0.020	0.4000	0	87.5	50	118				
Indeno(1,2,3-cd)pyrene	0.40	0.020	0.4000	0	99.7	48	130				
Naphthalene	0.30	0.020	0.4000	0	75.7	43	114				
Phenanthrene	0.39	0.020	0.4000	0	98.0	53	115				
Pyrene	0.40	0.020	0.4000	0	100	53	124				
Surr: 2,4,6-Tribromophenol	0		0.5000		0	46	122				QU
Surr: 2-Fluorobiphenyl	0.44		0.5000		88.5	53	106				
Surr: 2-Fluorophenol	0		0.5000		0	40	130				QU
Surr: Nitrobenzene-d5	0.52		0.5000		103	55	111				
Surr: Phenol-d5	0		0.5000		0	40	130				QU
Surr: Terphenyl-d14	0.61		0.5000		121	58	132				

Sample ID:	LCSD-40213	Samp Type:	LCSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	LCSS02	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698440

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.35	0.020	0.4000	0	87.0	41	115	0.3390	2.57	20	
2-Methylnaphthalene	0.32	0.020	0.4000	0	81.2	39	114	0.3227	0.584	20	
Acenaphthene	0.34	0.020	0.4000	0	85.5	48	114	0.3340	2.40	20	
Acenaphthylene	0.33	0.020	0.4000	0	82.0	35	121	0.3210	2.16	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	**LCSD-40213**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**87461**
Client ID:	**LCSS02**	Batch ID:	**40213**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/22/2016**	SeqNo:	**1698440**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Anthracene	0.33	0.020	0.4000	0	83.6	53	119	0.3461	3.48	20	
Benz(a)anthracene	0.44	0.020	0.4000	0	110	59	120	0.4634	4.94	20	
Benzo(a)pyrene	0.33	0.020	0.4000	0	83.4	53	120	0.3434	2.91	20	
Benzo(b)fluoranthene	0.39	0.020	0.4000	0	96.4	53	126	0.4604	17.7	20	
Benzo(g,h,i)perylene	0.37	0.020	0.4000	0	93.6	44	128	0.3840	2.56	20	
Benzo(k)fluoranthene	0.36	0.020	0.4000	0	91.2	54	125	0.3130	15.2	20	
Chrysene	0.34	0.020	0.4000	0	84.3	57	120	0.3151	6.81	20	
Dibenzo(a,h)anthracene	0.39	0.020	0.4000	0	97.3	44	131	0.3992	2.56	20	
Fluoranthene	0.35	0.020	0.4000	0	86.7	58	120	0.3464	0.0895	20	
Fluorene	0.36	0.020	0.4000	0	89.9	50	118	0.3499	2.74	20	
Indeno(1,2,3-cd)pyrene	0.39	0.020	0.4000	0	97.5	48	130	0.3988	2.22	20	
Naphthalene	0.31	0.020	0.4000	0	77.2	43	114	0.3028	1.98	20	
Phenanthrene	0.40	0.020	0.4000	0	101	53	115	0.3921	2.64	20	
Pyrene	0.40	0.020	0.4000	0	101	53	124	0.4010	0.790	20	
Surr: 2,4,6-Tribromophenol	0		0.5000		0	46	122		0	20	QU
Surr: 2-Fluorobiphenyl	0.45		0.5000		90.5	53	106		0	20	
Surr: 2-Fluorophenol	0		0.5000		0	40	130		0	20	QU
Surr: Nitrobenzene-d5	0.52		0.5000		104	55	111		0	20	
Surr: Phenol-d5	0		0.5000		0	40	130		0	20	QU
Surr: Terphenyl-d14	0.61		0.5000		122	58	132		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**MB- 40220**	Samp Type:	**MBLK**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/26/2016**	RunNo:	**86960**
Client ID:	**PBW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1687348**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									YU
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									YZU
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	1.0	1.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									ZU
Bis(2-ethylhexyl) phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**MB- 40220**	Samp Type:	**MBLK**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/26/2016**	RunNo:	**86960**
Client ID:	**PBW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1687348**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	1.0	1.0									U
Hexachlorobutadiene	1.0	1.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									YU
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									YU
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	44		25.00		176	43	140				Q
Surr: 2-Fluorobiphenyl	31		25.00		122	44	119				Q
Surr: 2-Fluorophenol	18		25.00		73.3	19	119				
Surr: Nitrobenzene-d5	32		25.00		129	44	120				Q
Surr: Phenol-d5	13		25.00		51.4	30	130				
Surr: Terphenyl-d14	45		25.00		180	50	134				Q

Sample ID:	**LCS-40220**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86960**
Client ID:	**LCSW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1687349**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.9	5.0	20.00	0	49.4	29	116				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.6	29	112				
2,4,5-Trichlorophenol	15	5.0	20.00	0	77.0	53	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCS-40220**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86960**
Client ID:	**LCSW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1687349**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.9	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	75.6	47	121				
2,4-Dimethyl phenol	13	5.0	20.00	0	63.5	31	124				
2,4-Dinitrophenol	48	25	50.00	0	95.1	23	143				Y
2,4-Dinitrotoluene	16	5.0	20.00	0	79.6	57	128				
2,6-Dinitrotoluene	15	5.0	20.00	0	73.2	57	124				
2-Chloronaphthalene	11	5.0	20.00	0	56.3	40	116				
2-Chlorophenol	12	5.0	20.00	0	61.4	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	62.0	30	117				
2-Nitroaniline	14	5.0	20.00	0	68.3	55	127				
2-Nitrophenol	15	5.0	20.00	0	74.6	47	123				
3,3´-Dichlorobenzidine	13	20	20.00	0	64.2	27	129				J
3-Nitroaniline	15	10	20.00	0	76.9	41	128				
3/4-Methylphenol [m/p-Cresol]	22	10	40.00	0	54.7	25	120				
4,6-Dinitro-2-methylphenol	17	10	20.00	0	86.0	44	137				
4-Bromophenyl phenyl ether	13	5.0	20.00	0	62.8	55	124				
4-Chloro-3-methylphenol	16	5.0	20.00	0	81.6	52	119				
4-Chloroaniline [p-Chloroaniline]	14	10	20.00	0	67.6	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	73.1	53	121				
4-Nitroaniline	12	10	20.00	0	62.0	50	130				
4-Nitrophenol	15	25	50.00	0	30.0	50	130				JQ
Benzyl alcohol	9.7	25	20.00	0	48.6	31	112				J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	63.0	48	120				
Bis(2-chloroethyl) ether	12	1.0	20.00	0	59.5	43	118				
Bis(2-chloroisopropyl)ether	13	5.0	20.00	0	64.0	37	130				Z
Bis(2-ethylhexyl) phthalate	15	5.0	20.00	0	76.0	55	135				
Butyl benzyl phthalate	15	5.0	20.00	0	73.6	53	134				
Carbazole	14	5.0	20.00	0	71.7	60	122				
Di-n-butyl phthalate	14	5.0	20.00	0	71.3	59	127				
Di-n-octyl phthalate	15	5.0	20.00	0	72.8	51	140				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	LCS-40220	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86960
Client ID:	LCSW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1687349

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dibenzofuran	14	4.0	20.00	0	68.7	53	118				
Diethyl phthalate	16	5.0	20.00	0	78.3	56	125				
Dimethyl phthalate	14	5.0	20.00	0	72.2	45	127				
Hexachlorobenzene	13	1.0	20.00	0	63.0	53	125				
Hexachlorobutadiene	9.9	1.0	20.00	0	49.7	22	124				
Hexachloroethane	8.7	5.0	20.00	0	43.4	21	115				
Isophorone	13	5.0	20.00	0	65.6	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	69.7	50	130				
N-Nitrosodimethylamine	7.0	5.0	20.00	0	34.8	50	130				Q
N-Nitrosodiphenylamine	12	5.0	20.00	0	58.8	51	123				Y
Nitrobenzene	13	3.0	20.00	0	64.7	45	121				
Pentachlorophenol	11	5.0	20.00	0	54.8	35	138				Y
Phenol	6.3	5.0	20.00	0	31.6	50	130				Q
Surr: 2,4,6-Tribromophenol	22		25.00		87.1	43	140				
Surr: 2-Fluorobiphenyl	20		25.00		79.6	44	119				
Surr: 2-Fluorophenol	12		25.00		46.6	19	119				
Surr: Nitrobenzene-d5	20		25.00		81.6	44	120				
Surr: Phenol-d5	8.3		25.00		33.4	30	130				J
Surr: Terphenyl-d14	23		25.00		90.6	50	134				

Sample ID:	LCSD-40220	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86960
Client ID:	LCSS02	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1687350

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	5.0	20.00	0	56.7	29	116	9.870	13.9	25	
1,4-Dichlorobenzene	10	5.0	20.00	0	49.9	29	112	8.910	11.3	25	
2,4,5-Trichlorophenol	18	5.0	20.00	0	87.7	53	123	15.39	13.1	25	
2,4,6-Trichlorophenol	18	4.0	20.00	0	90.2	50	125	15.98	12.1	25	
2,4-Dichlorophenol	17	5.0	20.00	0	86.4	47	121	15.13	13.3	25	
2,4-Dimethyl phenol	14	5.0	20.00	0	72.0	31	124	12.70	12.6	25	
2,4-Dinitrophenol	51	25	50.00	0	102	23	143	47.55	6.90	25	JY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID: **LCSD-40220** Samp Type: **LCSD** Test Code: **SW_8270A** Units: **µg/L** Prep Date: **6/21/2016** RunNo: **86960**

Client ID: **LCSS02** Batch ID: **40220** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/26/2016** SeqNo: **1687350**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	18	5.0	20.00	0	90.6	57	128	15.93	12.9	25	
2,6-Dinitrotoluene	16	5.0	20.00	0	80.7	57	124	14.64	9.75	25	
2-Chloronaphthalene	12	5.0	20.00	0	61.4	40	116	11.26	8.58	25	
2-Chlorophenol	13	5.0	20.00	0	67.2	38	117	12.27	9.10	25	
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	68.6	30	117	12.41	10.0	25	
2-Nitroaniline	15	5.0	20.00	0	74.4	55	127	13.66	8.48	25	
2-Nitrophenol	17	5.0	20.00	0	83.8	47	123	14.92	11.6	25	
3,3´-Dichlorobenzidine	14	20	20.00	0	69.6	27	129	12.84	8.00	25	J
3-Nitroaniline	17	10	20.00	0	85.9	41	128	15.38	11.1	25	
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	59.4	25	120	21.89	8.28	25	
4,6-Dinitro-2-methylphenol	19	10	20.00	0	94.2	44	137	17.19	9.11	25	
4-Bromophenyl phenyl ether	14	5.0	20.00	0	68.1	55	124	12.55	8.18	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	91.3	52	119	16.31	11.3	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	74.4	33	117	13.51	9.72	25	
4-Chlorophenyl phenyl ether	16	5.0	20.00	0	81.6	53	121	14.62	11.0	25	
4-Nitroaniline	14	10	20.00	0	70.1	50	130	12.39	12.3	25	
4-Nitrophenol	18	25	50.00	0	35.3	50	130	14.98	16.4	25	JQ
Benzyl alcohol	11	25	20.00	0	54.9	31	112	9.720	12.2	25	J
Bis(2-chloroethoxy) methane	14	5.0	20.00	0	68.7	48	120	12.61	8.58	25	
Bis(2-chloroethyl) ether	13	1.0	20.00	0	65.2	43	118	11.90	9.22	25	
Bis(2-chloroisopropyl)ether	14	5.0	20.00	0	71.4	37	130	12.79	11.1	25	Z
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	84.9	55	135	15.20	11.1	25	
Butyl benzyl phthalate	17	5.0	20.00	0	82.6	53	134	14.72	11.6	25	
Carbazole	16	5.0	20.00	0	80.6	60	122	14.34	11.7	25	
Di-n-butyl phthalate	16	5.0	20.00	0	80.0	59	127	14.26	11.6	25	
Di-n-octyl phthalate	16	5.0	20.00	0	81.2	51	140	14.55	11.0	25	
Dibenzofuran	15	4.0	20.00	0	75.2	53	118	13.74	8.97	25	
Diethyl phthalate	17	5.0	20.00	0	86.5	56	125	15.66	9.95	25	
Dimethyl phthalate	16	5.0	20.00	0	79.8	45	127	14.44	9.94	25	
Hexachlorobenzene	14	1.0	20.00	0	68.1	53	125	12.60	7.78	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCSD-40220**	Samp Type:	**LCSD**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86960**
Client ID:	**LCSS02**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1687350**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachlorobutadiene	11	1.0	20.00	0	53.4	22	124	9.940	7.08	25	
Hexachloroethane	9.0	5.0	20.00	0	45.0	21	115	8.690	3.39	25	
Isophorone	14	5.0	20.00	0	70.6	42	124	13.11	7.49	25	
N-Nitroso-di-n-propylamine	15	5.0	20.00	0	75.6	50	130	13.94	8.06	25	
N-Nitrosodimethylamine	7.2	5.0	20.00	0	36.2	50	130	6.970	3.94	25	Q
N-Nitrosodiphenylamine	13	5.0	20.00	0	65.4	51	123	11.76	10.6	25	Y
Nitrobenzene	15	3.0	20.00	0	74.0	45	121	12.94	13.4	25	
Pentachlorophenol	13	5.0	20.00	0	63.2	35	138	10.95	14.3	25	Y
Phenol	6.9	5.0	20.00	0	34.4	50	130	6.320	8.48	25	Q
Surr: 2,4,6-Tribromophenol	23		25.00		93.4	43	140		0	25	
Surr: 2-Fluorobiphenyl	21		25.00		83.1	44	119		0	25	
Surr: 2-Fluorophenol	12		25.00		46.2	19	119		0	25	
Surr: Nitrobenzene-d5	22		25.00		87.4	44	120		0	25	
Surr: Phenol-d5	8.4		25.00		33.6	30	130		0	25	J
Surr: Terphenyl-d14	24		25.00		95.4	50	134		0	25	

Sample ID:	**MB- 40220**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/26/2016**	RunNo:	**86948**
Client ID:	**PBW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686944**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									YU
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**MB- 40220**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/26/2016**	RunNo:	**86948**
Client ID:	**PBW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686944**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									YZU
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	1.0	1.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									ZU
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	1.0	1.0									U
Hexachlorobutadiene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	MB- 40220	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	86948
Client ID:	PBW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686944

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									YU
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									YU
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	44		25.00		176	43	140				Q
Surr: 2-Fluorobiphenyl	31		25.00		122	44	119				Q
Surr: 2-Fluorophenol	18		25.00		73.3	19	119				
Surr: Nitrobenzene-d5	32		25.00		129	44	120				Q
Surr: Phenol-d5	13		25.00		51.4	33	122				
Surr: Terphenyl-d14	45		25.00		180	50	134				Q

Sample ID:	LCS-40220	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86948
Client ID:	LCSW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686945

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.9	5.0	20.00	0	49.4	29	116				
1,2-Dichlorobenzene	9.2	5.0	20.00	0	45.8	32	111				
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.6	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.6	29	112				
2,4,5-Trichlorophenol	15	5.0	20.00	0	77.0	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.9	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	75.6	47	121				
2,4-Dimethyl phenol	13	5.0	20.00	0	63.5	31	124				
2,4-Dinitrophenol	48	25	50.00	0	95.1	23	143				Y
2,4-Dinitrotoluene	16	5.0	20.00	0	79.6	57	128				
2,6-Dinitrotoluene	15	5.0	20.00	0	73.2	57	124				
2-Chloronaphthalene	11	5.0	20.00	0	56.3	40	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCS-40220**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686945**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chlorophenol	12	5.0	20.00	0	61.4	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	62.0	30	117				
2-Nitroaniline	14	5.0	20.00	0	68.3	55	127				
2-Nitrophenol	15	5.0	20.00	0	74.6	47	123				
3,3´-Dichlorobenzidine	13	20	20.00	0	64.2	27	129				J
3-Nitroaniline	15	10	20.00	0	76.9	41	128				
3/4-Methylphenol [m/p-Cresol]	22	10	40.00	0	54.7	25	120				
4,6-Dinitro-2-methylphenol	17	10	20.00	0	86.0	44	137				
4-Bromophenyl phenyl ether	13	5.0	20.00	0	62.8	55	124				
4-Chloro-3-methylphenol	16	5.0	20.00	0	81.6	52	119				
4-Chloroaniline [p-Chloroaniline]	14	10	20.00	0	67.6	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	73.1	53	121				
4-Nitroaniline	12	10	20.00	0	62.0	50	130				
4-Nitrophenol	15	25	50.00	0	30.0	50	130				JQ
Benzoic acid	21	25	40.00	0	51.9	50	130				JYZ
Benzyl alcohol	9.7	25	20.00	0	48.6	31	112				J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	63.0	48	120				
Bis(2-chloroethyl) ether	12	1.0	20.00	0	59.5	43	118				
Bis(2-chloroisopropyl)ether	13	5.0	20.00	0	64.0	37	130				Z
Bis(2-ethylhexyl) phthalate	15	5.0	20.00	0	76.0	55	135				
Butyl benzyl phthalate	15	5.0	20.00	0	73.6	53	134				
Carbazole	14	5.0	20.00	0	71.7	60	122				
Di-n-butyl phthalate	14	5.0	20.00	0	71.3	59	127				
Di-n-octyl phthalate	15	5.0	20.00	0	72.8	51	140				
Dibenzofuran	14	4.0	20.00	0	68.7	53	118				
Diethyl phthalate	16	5.0	20.00	0	78.3	56	125				
Dimethyl phthalate	14	5.0	20.00	0	72.2	45	127				
Hexachlorobenzene	13	1.0	20.00	0	63.0	53	125				
Hexachlorobutadiene	9.9	1.0	20.00	0	49.7	22	124				
Hexachloroethane	8.7	5.0	20.00	0	43.4	21	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCS-40220**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686945**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Isophorone	13	5.0	20.00	0	65.6	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	69.7	50	130				
N-Nitrosodimethylamine	7.0	5.0	20.00	0	34.8	50	130				Q
N-Nitrosodiphenylamine	12	5.0	20.00	0	58.8	51	123				Y
Nitrobenzene	13	3.0	20.00	0	64.7	45	121				
Pentachlorophenol	11	5.0	20.00	0	54.8	35	138				Y
Phenol	6.3	5.0	20.00	0	31.6	34	121				Q
Surr: 2,4,6-Tribromophenol	22		25.00		87.1	43	140				
Surr: 2-Fluorobiphenyl	20		25.00		79.6	44	119				
Surr: 2-Fluorophenol	12		25.00		46.6	19	119				
Surr: Nitrobenzene-d5	20		25.00		81.6	44	120				
Surr: Phenol-d5	8.3		25.00		33.4	33	122				J
Surr: Terphenyl-d14	23		25.00		90.6	50	134				

Sample ID:	**LCSD-40220**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSS02**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686946**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	5.0	20.00	0	56.7	29	116	9.870	13.9	25	
1,2-Dichlorobenzene	11	5.0	20.00	0	53.5	32	111	9.160	15.5	25	
1,3-Dichlorobenzene	9.4	5.0	20.00	0	46.8	28	110	8.530	9.28	25	
1,4-Dichlorobenzene	10	5.0	20.00	0	49.9	29	112	8.910	11.3	25	
2,4,5-Trichlorophenol	18	5.0	20.00	0	87.7	53	123	15.39	13.1	25	
2,4,6-Trichlorophenol	18	4.0	20.00	0	90.2	50	125	15.98	12.1	25	
2,4-Dichlorophenol	17	5.0	20.00	0	86.4	47	121	15.13	13.3	25	
2,4-Dimethyl phenol	14	5.0	20.00	0	72.0	31	124	12.70	12.6	25	
2,4-Dinitrophenol	51	25	50.00	0	102	23	143	47.55	6.90	25	JY
2,4-Dinitrotoluene	18	5.0	20.00	0	90.6	57	128	15.93	12.9	25	
2,6-Dinitrotoluene	16	5.0	20.00	0	80.7	57	124	14.64	9.75	25	
2-Chloronaphthalene	12	5.0	20.00	0	61.4	40	116	11.26	8.58	25	
2-Chlorophenol	13	5.0	20.00	0	67.2	38	117	12.27	9.10	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCSD-40220**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSS02**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686946**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	68.6	30	117	12.41	10.0	25	
2-Nitroaniline	15	5.0	20.00	0	74.4	55	127	13.66	8.48	25	
2-Nitrophenol	17	5.0	20.00	0	83.8	47	123	14.92	11.6	25	
3,3´-Dichlorobenzidine	14	20	20.00	0	69.6	27	129	12.84	8.00	25	J
3-Nitroaniline	17	10	20.00	0	85.9	41	128	15.38	11.1	25	
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	59.4	25	120	21.89	8.28	25	
4,6-Dinitro-2-methylphenol	19	10	20.00	0	94.2	44	137	17.19	9.11	25	
4-Bromophenyl phenyl ether	14	5.0	20.00	0	68.1	55	124	12.55	8.18	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	91.3	52	119	16.31	11.3	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	74.4	33	117	13.51	9.72	25	
4-Chlorophenyl phenyl ether	16	5.0	20.00	0	81.6	53	121	14.62	11.0	25	
4-Nitroaniline	14	10	20.00	0	70.1	50	130	12.39	12.3	25	
4-Nitrophenol	18	25	50.00	0	35.3	50	130	14.98	16.4	25	JQ
Benzoic acid	19	25	40.00	0	47.9	50	130	20.75	8.02	25	JYZQ
Benzyl alcohol	11	25	20.00	0	54.9	31	112	9.720	12.2	25	J
Bis(2-chloroethoxy) methane	14	5.0	20.00	0	68.7	48	120	12.61	8.58	25	
Bis(2-chloroethyl) ether	13	1.0	20.00	0	65.2	43	118	11.90	9.22	25	
Bis(2-chloroisopropyl)ether	14	5.0	20.00	0	71.4	37	130	12.79	11.1	25	Z
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	84.9	55	135	15.20	11.1	25	
Butyl benzyl phthalate	17	5.0	20.00	0	82.6	53	134	14.72	11.6	25	
Carbazole	16	5.0	20.00	0	80.6	60	122	14.34	11.7	25	
Di-n-butyl phthalate	16	5.0	20.00	0	80.0	59	127	14.26	11.6	25	
Di-n-octyl phthalate	16	5.0	20.00	0	81.2	51	140	14.55	11.0	25	
Dibenzofuran	15	4.0	20.00	0	75.2	53	118	13.74	8.97	25	
Diethyl phthalate	17	5.0	20.00	0	86.5	56	125	15.66	9.95	25	
Dimethyl phthalate	16	5.0	20.00	0	79.8	45	127	14.44	9.94	25	
Hexachlorobenzene	14	1.0	20.00	0	68.1	53	125	12.60	7.78	25	
Hexachlorobutadiene	11	1.0	20.00	0	53.4	22	124	9.940	7.08	25	
Hexachloroethane	9.0	5.0	20.00	0	45.0	21	115	8.690	3.39	25	
Isophorone	14	5.0	20.00	0	70.6	42	124	13.11	7.49	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCSD-40220**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSS02**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686946**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitroso-di-n-propylamine	15	5.0	20.00	0	75.6	50	130	13.94	8.06	25	
N-Nitrosodimethylamine	7.2	5.0	20.00	0	36.2	50	130	6.970	3.94	25	Q
N-Nitrosodiphenylamine	13	5.0	20.00	0	65.4	51	123	11.76	10.6	25	Y
Nitrobenzene	15	3.0	20.00	0	74.0	45	121	12.94	13.4	25	
Pentachlorophenol	13	5.0	20.00	0	63.2	35	138	10.95	14.3	25	Y
Phenol	6.9	5.0	20.00	0	34.4	34	121	6.320	8.48	25	
Surr: 2,4,6-Tribromophenol	23		25.00		93.4	43	140		0	25	
Surr: 2-Fluorobiphenyl	21		25.00		83.1	44	119		0	25	
Surr: 2-Fluorophenol	12		25.00		46.2	19	119		0	25	
Surr: Nitrobenzene-d5	22		25.00		87.4	44	120		0	25	
Surr: Phenol-d5	8.4		25.00		33.6	33	122		0	25	J
Surr: Terphenyl-d14	24		25.00		95.4	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	1606422-008CMS	Samp Type:	MS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688618

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.098	1.961	0	79.2	50	114				
Aroclor 1260	1.6	0.15	1.961	0	82.9	20	127				
Surr: Tetrachloro-m-xylene	0.062		0.09804		63.5	48	111				
Surr: Decachlorobiphenyl	0.073		0.09804		74.3	47	122				

Sample ID:	1606422-008CMSD	Samp Type:	MSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688619

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.094	1.887	0	83.0	50	114	1.553	0.816	25	
Aroclor 1260	1.7	0.14	1.887	0	90.1	20	127	1.625	4.51	25	
Surr: Tetrachloro-m-xylene	0.062		0.09434		66.1	48	111		0	25	
Surr: Decachlorobiphenyl	0.079		0.09434		83.6	47	122		0	25	

Sample ID:	LCS-40264	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	LCSW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688631

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.7	0.10	2.000	0	83.7	50	114				
Aroclor 1260	1.7	0.15	2.000	0	86.6	20	127				
Surr: Tetrachloro-m-xylene	0.070		0.1000		69.9	48	111				
Surr: Decachlorobiphenyl	0.083		0.1000		83.3	47	122				

Sample ID:	MB-40264	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	PBW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688632

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	MB-40264	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	PBW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688632

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.094		0.1000		93.7	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		106	40	135				

Sample ID:	1606422-008CMS	Samp Type:	MS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87065
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688971

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.098	1.961	0	80.4	46	129				
Aroclor 1260	1.6	0.20	1.961	0	82.0	45	134				
Surr: Tetrachloro-m-xylene	0.060		0.09804		61.2	40	135				
Surr: Decachlorobiphenyl	0.071		0.09804		72.1	40	135				

Sample ID:	1606422-008CMSD	Samp Type:	MSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87065
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688972

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.7	46	129	1.577	2.27	25	
Aroclor 1260	1.6	0.19	1.887	0	87.3	45	134	1.609	2.41	25	
Surr: Tetrachloro-m-xylene	0.059		0.09434		62.9	40	135		0	25	
Surr: Decachlorobiphenyl	0.073		0.09434		77.7	40	135		0	25	

Sample ID:	LCS-40264	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87065
Client ID:	LCSW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688996

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.8	0.10	2.000	0	91.2	46	129				
Aroclor 1260	1.9	0.20	2.000	0	95.6	45	134				
Surr: Tetrachloro-m-xylene	0.076		0.1000		75.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.4	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	MB-40264	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87065
Client ID:	PBW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688997

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.082		0.1000		81.7	40	135				
Surr: Decachlorobiphenyl	0.093		0.1000		92.7	40	135				

Sample ID:	1606422-008CMS	Samp Type:	MS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87066
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1689011

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.098	1.961	0	83.3	46	129				
Aroclor 1260	1.7	0.20	1.961	0	88.9	45	134				
Surr: Tetrachloro-m-xylene	0.063		0.09804		64.1	40	135				
Surr: Decachlorobiphenyl	0.077		0.09804		78.2	40	135				

Sample ID:	1606422-008CMSD	Samp Type:	MSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87066
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1689012

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.094	1.887	0	86.9	46	129	1.634	0.340	25	
Aroclor 1260	1.8	0.19	1.887	0	93.7	45	134	1.743	1.39	25	
Surr: Tetrachloro-m-xylene	0.064		0.09434		67.6	40	135		0	25	
Surr: Decachlorobiphenyl	0.080		0.09434		84.8	40	135		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	LCS-40264	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87066
Client ID:	LCSW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1689021

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	95.8	46	129				
Aroclor 1260	2.1	0.20	2.000	0	103	45	134				
Surr: Tetrachloro-m-xylene	0.079		0.1000		79.5	40	135				
Surr: Decachlorobiphenyl	0.096		0.1000		96.1	40	135				

Sample ID:	MB-40264	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87066
Client ID:	PBW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1689022

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.076		0.1000		76.2	40	135				
Surr: Decachlorobiphenyl	0.098		0.1000		98.4	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40329**

Sample ID:	LCS-40329	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	LCSW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693763

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	95.9	50	114				
Aroclor 1260	2.0	0.15	2.000	0	102	20	127				
Surr: Tetrachloro-m-xylene	0.074		0.1000		73.5	48	111				
Surr: Decachlorobiphenyl	0.10		0.1000		100	47	122				

Sample ID:	LCSD-40329	Samp Type:	LCSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	LCSS02	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693764

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	93.7	50	114	1.918	2.37	25	
Aroclor 1260	2.0	0.15	2.000	0	98.3	20	127	2.044	3.95	25	
Surr: Tetrachloro-m-xylene	0.079		0.1000		79.0	48	111		0	25	
Surr: Decachlorobiphenyl	0.094		0.1000		94.4	47	122		0	25	

Sample ID:	MB-40329	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	PBW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693765

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.088		0.1000		87.6	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		110	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40329**

Sample ID:	LCS-40329	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	LCSW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693976

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	95.9	46	129				
Aroclor 1260	2.0	0.20	2.000	0	102	45	134				
Surr: Tetrachloro-m-xylene	0.074		0.1000		73.5	40	135				
Surr: Decachlorobiphenyl	0.10		0.1000		100	40	135				

Sample ID:	LCSD-40329	Samp Type:	LCSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	LCSS02	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693977

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	93.7	46	129	1.918	2.37	25	
Aroclor 1260	2.0	0.20	2.000	0	98.3	45	134	2.044	3.95	25	
Surr: Tetrachloro-m-xylene	0.079		0.1000		79.0	40	135		0	25	
Surr: Decachlorobiphenyl	0.094		0.1000		94.4	40	135		0	25	

Sample ID:	MB-40329	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	PBW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693978

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.088		0.1000		87.6	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		110	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40334**

Sample ID:	LCS-40334	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320	
Client ID:	LCSW	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695233	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Lead	210	1.0	200.0	0	106	88	115				G	

Sample ID:	MB-40334	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320	
Client ID:	PBW	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695234	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Lead	1.0	1.0									GU	

Sample ID:	1606739-009CMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320	
Client ID:	ZZZZZZ	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695387	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Lead	190	1.0	200.0	0.2600	96.8	88	115					

Sample ID:	1606739-009CMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320	
Client ID:	ZZZZZZ	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695388	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Lead	210	1.0	200.0	0.2600	105	88	115	193.8	8.46	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40338**

Sample ID:	LCS-40338	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	LCSW	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694300

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	450	2.5	400.0	0	113	85	117				G
Silver	440	1.5	400.0	0	110	85	116				

Sample ID:	MB-40338	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	PBW	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694301

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	2.5	2.5									GU
Silver	1.5	1.5									U

Sample ID:	1606636-011BMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	ZZZZZZ	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694304

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	450	2.5	400.0	10.08	111	85	117				G
Silver	430	1.5	400.0	6.900	105	85	116				

Sample ID:	1606636-011BMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	ZZZZZZ	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694306

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	440	2.5	400.0	10.08	108	85	117	454.9	3.31	20	G
Silver	410	1.5	400.0	6.900	101	85	116	426.6	3.47	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40440**

Sample ID:	MB-40440	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	PBW	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	50	50									U
Arsenic	1.5	1.5									U
Barium	25	25									U
Beryllium	1.0	1.0									GU
Cadmium	1.0	1.0									U
Calcium	1,000	1,000									U
Chromium	10	10									U
Cobalt	5.0	5.0									U
Copper	5.0	5.0									GU
Iron	200	200									U
Lead	1.0	1.0									U
Magnesium	500	500									U
Manganese	5.0	5.0									GU
Nickel	10	10									U
Potassium	500	500									U
Selenium	5.0	5.0									U
Sodium	500	500									U
Thallium	2.0	2.0									U
Vanadium	4.0	4.0									U
Zinc	50	50									U

Sample ID:	LCS-40440	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	LCSW	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703566

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	200	50	200.0	0	101	84	117				
Arsenic	200	1.5	200.0	0	102	84	116				
Barium	200	25	200.0	0	101	86	114				
Beryllium	190	1.0	200.0	0	95.9	83	121				G
Cadmium	200	1.0	200.0	0	98.5	87	115				
Calcium	2,100	1,000	2,000	0	104	87	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40440**

Sample ID:	LCS-40440	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	LCSW	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703566

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	200	10	200.0	0	100	85	116				
Cobalt	200	5.0	200.0	0	101	86	115				
Copper	210	5.0	200.0	0	103	85	118				G
Iron	2,100	200	2,000	0	103	87	118				
Lead	200	1.0	200.0	0	102	88	115				
Magnesium	2,100	500	2,000	0	103	83	118				
Manganese	200	5.0	200.0	0	100	87	115				G
Nickel	200	10	200.0	0	101	85	117				
Potassium	2,100	500	2,000	0	103	87	115				
Selenium	200	5.0	200.0	0	99.6	80	120				
Sodium	2,100	500	2,000	0	105	85	117				
Thallium	200	2.0	200.0	0	102	82	116				
Vanadium	200	4.0	200.0	0	99.0	86	115				
Zinc	200	50	200.0	0	97.9	83	119				

Sample ID:	1606631-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	WDS-SB03-GWMS1	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,900	50	200.0	6,986	452	84	117				Q
Arsenic	190	1.5	200.0	0.9000	96.3	84	116				
Barium	260	25	200.0	57.00	102	86	114				
Beryllium	180	1.0	200.0	0.3450	90.2	83	121				G
Cadmium	190	1.0	200.0	0	96.7	87	115				
Calcium	35,000	1,000	2,000	33,940	43.5	87	118				Q
Chromium	190	10	200.0	11.20	90.8	85	116				
Cobalt	190	5.0	200.0	2.175	91.9	86	115				
Copper	190	5.0	200.0	3.295	93.5	85	118				G
Iron	13,000	200	2,000	11,370	89.6	87	118				
Lead	200	1.0	200.0	5.015	98.2	88	115				
Magnesium	8,900	500	2,000	7,020	92.2	83	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40440**

Sample ID:	1606631-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	WDS-SB03-GWMS1	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Manganese	470	5.0	200.0	280.6	95.2	87	115				G
Nickel	190	10	200.0	6.035	92.2	85	117				
Potassium	3,900	500	2,000	2,082	93.0	87	115				
Selenium	180	5.0	200.0	0	91.8	80	120				
Sodium	28,000	500	2,000	25,980	102	85	117				
Thallium	190	2.0	200.0	0.2600	97.3	82	116				
Vanadium	190	4.0	200.0	11.44	89.9	86	115				
Zinc	210	50	200.0	17.14	94.9	83	119				

Sample ID:	1606631-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	WDS-SB03-GWSD1	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703571

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,000	50	200.0	6,986	495	84	117	7,890	1.08	20	Q
Arsenic	200	1.5	200.0	0.9000	99.8	84	116	193.6	3.53	20	
Barium	260	25	200.0	57.00	103	86	114	261.2	0.329	20	
Beryllium	180	1.0	200.0	0.3450	91.6	83	121	180.8	1.53	20	G
Cadmium	190	1.0	200.0	0	97.4	87	115	193.4	0.709	20	
Calcium	36,000	1,000	2,000	33,940	87.0	87	118	34,810	2.46	20	Q
Chromium	200	10	200.0	11.20	93.5	85	116	192.8	2.72	20	
Cobalt	190	5.0	200.0	2.175	93.4	86	115	186.0	1.63	20	
Copper	190	5.0	200.0	3.295	94.4	85	118	190.3	0.902	20	G
Iron	13,000	200	2,000	11,370	106	87	118	13,170	2.39	20	
Lead	200	1.0	200.0	5.015	97.5	88	115	201.3	0.650	20	
Magnesium	8,900	500	2,000	7,020	96.2	83	118	8,865	0.889	20	
Manganese	470	5.0	200.0	280.6	95.4	87	115	470.9	0.0976	20	G
Nickel	190	10	200.0	6.035	93.9	85	117	190.3	1.80	20	
Potassium	4,000	500	2,000	2,082	95.8	87	115	3,942	1.42	20	
Selenium	190	5.0	200.0	0	95.7	80	120	183.6	4.12	20	
Sodium	29,000	500	2,000	25,980	127	85	117	28,020	1.77	20	Q
Thallium	200	2.0	200.0	0.2600	97.7	82	116	194.8	0.433	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: **1606631**

Date Reported: **8/6/2016**
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40440**

Sample ID:	**1606631-005DMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**7/15/2016**	RunNo:	**87684**
Client ID:	**WDS-SB03-GWSD1**	Batch ID:	**40440**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/28/2016**	SeqNo:	**1703571**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Vanadium	200	4.0	200.0	11.44	92.4	86	115	191.3	2.56	20	
Zinc	210	50	200.0	17.14	95.3	83	119	207.0	0.369	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID: **VOA11B LCS2 0626** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSW** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686847**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.0	1.0	10.00	0	79.9	78	124				
1,1,1-Trichloroethane	7.6	1.0	10.00	0	76.5	74	131				
1,1,2,2-Tetrachloroethane	8.8	1.0	10.00	0	88.3	71	121				
1,1,2-Trichloroethane	9.0	1.0	10.00	0	90.5	80	119				
1,1-Dichloroethane	8.6	2.0	10.00	0	86.2	77	125				
1,1-Dichloroethene	8.4	1.0	10.00	0	83.8	71	131				
1,2,3-Trichloropropane	7.5	1.0	10.00	0	75.4	73	122				
1,2-Dibromo-3-chloropropane	7.3	5.0	10.00	0	73.1	62	128				
1,2-Dibromoethane	9.6	1.0	10.00	0	95.5	77	121				
1,2-Dichloroethane	8.1	1.0	10.00	0	80.7	73	128				
1,2-Dichloropropane	8.7	1.0	10.00	0	87.3	78	122				
2-Butanone [MEK]	8.6	10	10.00	0	86.2	56	143				J
2-Hexanone	6.6	2.0	10.00	0	66.5	57	139				Y
Acetone	9.9	10	10.00	0	99.1	39	160				JY
Benzene	9.1	1.0	10.00	0	91.2	79	120				
Bromodichloromethane	7.9	1.0	10.00	0	78.8	79	125				Q
Bromoform	5.8	1.0	10.00	0	58.4	66	130				YQ
Carbon disulfide	8.8	1.0	10.00	0	88.0	64	133				
Carbon tetrachloride	7.9	1.0	10.00	0	79.3	72	136				
Chlorobenzene	9.0	1.0	10.00	0	89.8	82	118				
Chlorodibromomethane	6.5	1.0	10.00	0	65.2	74	126				Q
Chloroethane	8.8	2.0	10.00	0	88.0	60	138				
Chloroform	8.4	1.0	10.00	0	84.4	79	124				
Chloromethane	15	1.0	10.00	0	151	50	139				BYQ
cis-1,2-Dichloroethene	8.6	1.0	10.00	0	85.5	78	123				
cis-1,3-Dichloropropene	6.8	1.0	10.00	0	67.8	75	124				Q
Dichlorodifluoromethane [Freon-12]	9.6	1.0	10.00	0	96.2	32	152				
Ethylbenzene	8.7	1.0	10.00	0	86.6	79	121				
Methylene chloride	9.8	5.0	10.00	0	98.1	74	124				
Styrene	8.0	1.0	10.00	0	79.8	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID: **VOA11B LCS2 0626** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSW** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686847**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	11	1.0	10.00	0	110	74	129				
Toluene	9.0	1.0	10.00	0	89.5	80	121				
trans-1,2-Dichloroethene	9.0	1.0	10.00	0	89.8	75	124				
trans-1,3-Dichloropropene	8.2	1.0	10.00	0	82.3	73	127				
Trichloroethene	9.3	1.0	10.00	0	92.7	79	123				
Trichlorofluoromethane [Freon-11]	6.6	1.0	10.00	0	66.3	65	141				Y
Vinyl acetate	6.0	5.0	10.00	0	60.5	54	146				
Vinyl chloride	9.1	1.0	10.00	0	90.9	58	137				
Xylene (total)	25	3.0	30.00	0	82.7	79	121				
Surr: 4-Bromofluorobenzene	57		60.00		94.4	85	114				
Surr: Dibromofluoromethane	53		60.00		89.0	80	119				
Surr: Toluene-d8	55		60.00		92.0	89	112				

Sample ID: **VOA11B LCSD2 062** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSS02** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686848**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	7.3	1.0	10.00	0	73.1	78	124	7.990	8.89	25	Q
1,1,1-Trichloroethane	7.5	1.0	10.00	0	74.6	74	131	7.650	2.51	25	
1,1,2,2-Tetrachloroethane	8.6	1.0	10.00	0	85.9	71	121	8.830	2.76	25	
1,1,2-Trichloroethane	9.0	1.0	10.00	0	89.7	80	119	9.050	0.888	25	
1,1-Dichloroethane	8.4	2.0	10.00	0	83.5	77	125	8.620	3.18	25	
1,1-Dichloroethene	7.7	1.0	10.00	0	77.3	71	131	8.380	8.07	25	
1,2,3-Trichloropropane	8.4	1.0	10.00	0	84.0	73	122	7.540	10.8	25	
1,2-Dibromo-3-chloropropane	6.6	5.0	10.00	0	65.6	62	128	7.310	10.8	25	
1,2-Dibromoethane	8.8	1.0	10.00	0	88.5	77	121	9.550	7.61	25	
1,2-Dichloroethane	7.8	1.0	10.00	0	78.3	73	128	8.070	3.02	25	
1,2-Dichloropropane	8.4	1.0	10.00	0	84.1	78	122	8.730	3.73	25	
2-Butanone [MEK]	8.4	10	10.00	0	84.2	56	143	8.620	2.35	25	J
2-Hexanone	6.6	2.0	10.00	0	66.3	57	139	6.650	0.301	25	Y
Acetone	9.4	10	10.00	0	93.8	39	160	9.910	5.50	25	JY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID: **VOA11B LCSD2 062** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSS02** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686848**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.6	1.0	10.00	0	86.1	79	120	9.120	5.75	25	
Bromodichloromethane	7.7	1.0	10.00	0	77.2	79	125	7.880	2.05	25	Q
Bromoform	5.5	1.0	10.00	0	55.1	66	130	5.840	5.81	25	YQ
Carbon disulfide	7.7	1.0	10.00	0	77.1	64	133	8.800	13.2	25	
Carbon tetrachloride	7.5	1.0	10.00	0	75.1	72	136	7.930	5.44	25	
Chlorobenzene	8.3	1.0	10.00	0	83.2	82	118	8.980	7.63	25	
Chlorodibromomethane	6.2	1.0	10.00	0	62.5	74	126	6.520	4.23	25	Q
Chloroethane	8.4	2.0	10.00	0	83.5	60	138	8.800	5.25	25	
Chloroform	8.2	1.0	10.00	0	81.8	79	124	8.440	3.13	25	
Chloromethane	14	1.0	10.00	0	142	50	139	15.06	6.02	25	BYQ
cis-1,2-Dichloroethene	8.0	1.0	10.00	0	80.3	78	123	8.550	6.27	25	
cis-1,3-Dichloropropene	6.4	1.0	10.00	0	64.5	75	124	6.780	4.99	25	Q
Dichlorodifluoromethane [Freon-12]	8.7	1.0	10.00	0	87.4	32	152	9.620	9.59	25	
Ethylbenzene	8.2	1.0	10.00	0	82.3	79	121	8.660	5.09	25	
Methylene chloride	9.4	5.0	10.00	0	93.7	74	124	9.810	4.59	25	
Styrene	7.5	1.0	10.00	0	74.9	78	123	7.980	6.33	25	Q
Tetrachloroethene	11	1.0	10.00	0	107	74	129	11.04	3.50	25	
Toluene	8.4	1.0	10.00	0	83.6	80	121	8.950	6.82	25	
trans-1,2-Dichloroethene	8.3	1.0	10.00	0	83.3	75	124	8.980	7.51	25	
trans-1,3-Dichloropropene	7.8	1.0	10.00	0	78.0	73	127	8.230	5.36	25	
Trichloroethene	8.5	1.0	10.00	0	85.3	79	123	9.270	8.31	25	
Trichlorofluoromethane [Freon-11]	6.3	1.0	10.00	0	62.6	65	141	6.630	5.74	25	YQ
Vinyl acetate	5.8	5.0	10.00	0	57.9	54	146	6.050	4.39	0	
Vinyl chloride	8.5	1.0	10.00	0	85.0	58	137	9.090	6.71	25	
Xylene (total)	23	3.0	30.00	0	78.2	79	121	24.82	5.68	25	Q
Surr: 4-Bromofluorobenzene	56		60.00		94.1	85	114		0	25	
Surr: Dibromofluoromethane	52		60.00		87.2	80	119		0	25	
Surr: Toluene-d8	54		60.00		90.8	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86945**

Sample ID:	**VOA11B MBLK2 062**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86945**
Client ID:	**PBW**	Batch ID:	**R86945**	TestNo:	**SW8260B**			Analysis Date:	**6/27/2016**	SeqNo:	**1686850**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									U
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									YU
Acetone	10	10									YU
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									YU
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	0.73	1.0									JYT
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	0.56	5.0									J
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID:	VOA11B MBLK2 062	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86945
Client ID:	PBW	Batch ID:	R86945	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1686850

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									YU
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	46		50.00		91.9	85	114				
Surr: Dibromofluoromethane	41		50.00		81.6	80	119				
Surr: Toluene-d8	44		50.00		87.2	89	112				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Batch ID: R86984

Sample ID:	**VOA10 LCS 062816**	Samp Type:	**LCS**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/28/2016**	RunNo:	**86984**
Client ID:	**LCSW**	Batch ID:	**R86984**	TestNo:	**SW8260B**			Analysis Date:	**6/28/2016**	SeqNo:	**1687698**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10	1.0	10.00	0	102	78	124				
1,1,1-Trichloroethane	9.8	1.0	10.00	0	97.7	74	131				
1,1,2,2-Tetrachloroethane	9.4	1.0	10.00	0	94.4	71	121				
1,1,2-Trichloroethane	10	1.0	10.00	0	104	80	119				
1,1-Dichloroethane	9.5	1.0	10.00	0	95.3	77	125				
1,1-Dichloroethene	9.1	1.0	10.00	0	91.1	71	131				
1,2,3-Trichloropropane	8.9	1.0	10.00	0	88.6	73	122				
1,2-Dibromo-3-chloropropane	7.6	1.0	10.00	0	75.8	62	128				
1,2-Dibromoethane	10	1.0	10.00	0	104	77	121				
1,2-Dichloroethane	10	1.0	10.00	0	101	73	128				
1,2-Dichloropropane	10	1.0	10.00	0	102	78	122				
2-Butanone [MEK]	8.5	10	10.00	0	84.6	56	143				J
2-Hexanone	9.6	2.0	10.00	0	96.1	57	139				
Acetone	8.9	10	10.00	0	88.9	39	160				J
Benzene	9.3	1.0	10.00	0	93.3	79	120				
Bromodichloromethane	11	1.0	10.00	0	108	79	125				
Bromoform	7.4	1.0	10.00	0	73.6	66	130				
Carbon disulfide	9.5	1.0	10.00	0	94.6	64	133				
Carbon tetrachloride	9.7	1.0	10.00	0	97.3	72	136				
Chlorobenzene	9.6	1.0	10.00	0	95.6	82	118				
Chlorodibromomethane	11	1.0	10.00	0	107	74	126				
Chloroethane	10	2.0	10.00	0	100	60	138				
Chloroform	9.7	1.0	10.00	0	97.2	79	124				
Chloromethane	9.1	1.0	10.00	0	90.8	50	139				
cis-1,2-Dichloroethene	9.4	1.0	10.00	0	94.4	78	123				
cis-1,3-Dichloropropene	10	1.0	10.00	0	101	75	124				
Dichlorodifluoromethane [Freon-12]	9.5	1.0	10.00	0	95.0	32	152				
Ethylbenzene	9.6	1.0	10.00	0	95.7	79	121				
Methylene chloride	11	2.0	10.00	0	114	74	124				
Styrene	9.9	1.0	10.00	0	98.7	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86984

Sample ID: **VOA10 LCS 062816** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/28/2016** RunNo: **86984**

Client ID: **LCSW** Batch ID: **R86984** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687698**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	9.8	1.0	10.00	0	98.1	74	129				
Toluene	11	1.0	10.00	0	110	80	121				
trans-1,2-Dichloroethene	10	1.0	10.00	0	100	75	124				
trans-1,3-Dichloropropene	10	1.0	10.00	0	105	73	127				
Trichloroethene	9.5	1.0	10.00	0	95.4	79	123				
Trichlorofluoromethane [Freon-11]	9.5	1.0	10.00	0	95.4	65	141				
Vinyl acetate	9.2	5.0	10.00	0	92.3	54	146				
Vinyl chloride	10	1.0	10.00	0	101	58	137				
Xylene (total)	29	3.0	30.00	0	97.3	79	121				
Surr: 4-Bromofluorobenzene	61		60.00		102	85	114				
Surr: Dibromofluoromethane	56		60.00		93.2	80	119				
Surr: Toluene-d8	60		60.00		100	89	112				

Sample ID: **VOA10 LCSD 06281** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/28/2016** RunNo: **86984**

Client ID: **LCSS02** Batch ID: **R86984** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687699**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.9	1.0	10.00	0	88.6	78	124	10.23	14.4	20	
1,1,1-Trichloroethane	8.3	1.0	10.00	0	83.4	74	131	9.770	15.8	20	
1,1,2,2-Tetrachloroethane	8.4	1.0	10.00	0	84.1	71	121	9.440	11.5	20	
1,1,2-Trichloroethane	9.0	1.0	10.00	0	89.8	80	119	10.37	14.4	20	
1,1-Dichloroethane	8.5	1.0	10.00	0	84.7	77	125	9.530	11.8	20	
1,1-Dichloroethene	8.1	1.0	10.00	0	80.8	71	131	9.110	12.0	20	
1,2,3-Trichloropropane	7.6	1.0	10.00	0	76.4	73	122	8.860	14.8	20	
1,2-Dibromo-3-chloropropane	6.0	1.0	10.00	0	60.5	62	128	7.580	22.5	20	YRQ
1,2-Dibromoethane	9.5	1.0	10.00	0	94.8	77	121	10.40	9.26	20	
1,2-Dichloroethane	8.7	1.0	10.00	0	87.4	73	128	10.10	14.4	20	
1,2-Dichloropropane	8.8	1.0	10.00	0	87.7	78	122	10.22	15.3	20	
2-Butanone [MEK]	8.2	10	10.00	0	82.5	56	143	8.460	2.51	20	J
2-Hexanone	8.4	2.0	10.00	0	84.2	57	139	9.610	13.2	20	
Acetone	8.6	10	10.00	0	85.9	39	160	8.890	3.43	20	J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86984

Sample ID: **VOA10 LCSD 06281** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/28/2016** RunNo: **86984**

Client ID: **LCSS02** Batch ID: **R86984** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687699**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.2	1.0	10.00	0	82.0	79	120	9.330	12.9	20	
Bromodichloromethane	9.2	1.0	10.00	0	92.3	79	125	10.75	15.2	20	
Bromoform	6.5	1.0	10.00	0	64.8	66	130	7.360	12.7	20	Q
Carbon disulfide	7.9	1.0	10.00	0	79.3	64	133	9.460	17.6	20	
Carbon tetrachloride	8.4	1.0	10.00	0	83.8	72	136	9.730	14.9	20	
Chlorobenzene	8.1	1.0	10.00	0	81.1	82	118	9.560	16.4	20	Q
Chlorodibromomethane	9.6	1.0	10.00	0	95.6	74	126	10.72	11.4	20	
Chloroethane	8.2	2.0	10.00	0	81.8	60	138	10.00	20.0	20	R
Chloroform	8.3	1.0	10.00	0	83.4	79	124	9.720	15.3	20	
Chloromethane	8.1	1.0	10.00	0	81.4	50	139	9.080	10.9	20	
cis-1,2-Dichloroethene	8.1	1.0	10.00	0	81.4	78	123	9.440	14.8	20	
cis-1,3-Dichloropropene	8.3	1.0	10.00	0	82.6	75	124	10.08	19.8	20	
Dichlorodifluoromethane [Freon-12]	8.4	1.0	10.00	0	84.2	32	152	9.500	12.1	20	
Ethylbenzene	8.2	1.0	10.00	0	81.7	79	121	9.570	15.8	20	
Methylene chloride	10	2.0	10.00	0	101	74	124	11.35	12.1	20	
Styrene	8.8	1.0	10.00	0	87.7	78	123	9.870	11.8	20	
Tetrachloroethene	9.0	1.0	10.00	0	90.2	74	129	9.810	8.39	20	
Toluene	9.4	1.0	10.00	0	94.0	80	121	11.04	16.0	20	
trans-1,2-Dichloroethene	8.8	1.0	10.00	0	88.4	75	124	10.05	12.8	20	
trans-1,3-Dichloropropene	9.0	1.0	10.00	0	90.4	73	127	10.49	14.8	20	
Trichloroethene	9.2	1.0	10.00	0	91.5	79	123	9.540	4.17	20	
Trichlorofluoromethane [Freon-11]	9.0	1.0	10.00	0	89.9	65	141	9.540	5.94	20	
Vinyl acetate	8.3	5.0	10.00	0	83.3	54	146	9.230	10.3	20	
Vinyl chloride	8.4	1.0	10.00	0	84.2	58	137	10.07	17.8	20	
Xylene (total)	25	3.0	30.00	0	84.1	79	121	29.20	14.6	20	
Surr: 4-Bromofluorobenzene	59		60.00		98.1	85	114		0	20	
Surr: Dibromofluoromethane	53		60.00		87.6	80	119		0	20	
Surr: Toluene-d8	58		60.00		97.4	89	112		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86984**

Sample ID:	**VOA10 MBLK 06281A**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/28/2016**	RunNo:	**86984**
Client ID:	**PBW**	Batch ID:	**R86984**	TestNo:	**SW8260B**			Analysis Date:	**6/28/2016**	SeqNo:	**1687701**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	1.0	1.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	1.0	1.0									YU
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	1.8	10									J
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	2.0	2.0									U
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/6/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86984

Sample ID:	VOA10 MBLK 06281A	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/28/2016	RunNo:	86984
Client ID:	PBW	Batch ID:	R86984	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1687701

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	48		50.00		96.0	85	114				
Surr: Dibromofluoromethane	44		50.00		87.2	80	119				
Surr: Toluene-d8	47		50.00		93.6	89	112				

RTI Laboratories - Definitions and Acronyms

WO#: 1606631

Date Reported: 8/6/2016
Original

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606631
Copy Combined

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	061716-03
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB10	-	-	N	1	WDS-SB10-GW	6/15/16	1545	WG	10	053	3			4			2	1			1	pH okay <2
P113-SB02	-	-	N	1	P113-SB02-GW	6/16/16	1220	WG	3		3			4.					1.		2	
WDS-SB01	-	-	N	1	WDS-SB01-GW	6/16/16	1420	WG	3		3			4.			2	1.			3	*
WDS-SB02	-	-	N	1	WDS-SB02-GW	6/16/16	1445	WG	3		3			4.			2	1.			4	
WDS-SB03	-	-	N	1	WDS-SB03-GW	6/16/16	1515	WG	3		3			4.			2	1.			5	
FieldQC	-	-	TB	1	TB-GW-061516-01	6/15/16	0000	WQ	3		3										6	Trip Blank*
FieldQC	-	-	TB	1	TB-GW-061616-01	6/16/16	0000	WQ	3		3										7	Trip Blank*

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/17/16	Time 0930	1. Received By / Company	XFER TO FEDEX	Date 6/17/16	Time 0930
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	Rachel Clear	Date 18JUN16	Time 1037

Comments

Shipment Method/Airbill No. 8103 0202 5589

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

* one vial with less than pea-sized bubble. RDJ 18June16

** all vials with less than pea-sized bubble. RDJ 18June16

#002, 3.9°C

160666631 copy combined

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061717-08
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
P113-SB01	–	–	N	1	P113-SB01-GW	6/16/16	1145	WG	3	058	3			2				1	1		8	
P113-SB03	–	–	N	1	P113-SB03-GW	6/16/16	1310	WG	6		3			2				1*	1		9	Only 2L for SVC
WDS-SB08	–	–	N	1	WDS-SB08-GW	6/17/16	1055	WG	3		3			4			2	1			10	*pH okay <2
WDS-SB15	–	–	N	1	WDS-SB15-GW	6/17/16	1100	WG	10		3			4			2	1			11	pH okay <2
FieldQC	–	–	TB	1	TB-GW-06171601	6/17/16	0800	WQ	3		3										12	Trip Blank**
FieldQC	–	–	TB	1	TB-GW-06161602	6/16/16	0810	WQ	3		3										13	Trip Blank**
WDSSB12	–	–	N	1	WDS-SB12-GW	6/17/16	1230	WG	3		3			4			2	1			14	Note Differ
WDS-SB13	–	–	N	1	WDS-SB13-GW	6/17/16	1205	WG	3		3			4			2	1			15	Note Differ

Sampling Dates

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/17/16	Time 1500	1. Received By / Company	XFER TO FEDEX	Date 6/17/16	Time 1500
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	Rachel Dean	Date 16 jun 16	Time 1037

Comments

Shipment Method/Airbill No. 7103 0202 5534

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

**** Pb only for P113 for sample blanks

** one cap cracked. RD2 18 June 16

Lot-10 2.4°C

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-03
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB10	–	–	N	1	WDS-SB10-GW	6/15/16	1545	WG	10	053	3			4			2	1				pH okay <2
P113-SB02	–	–	N	1	P113-SB02-GW	6/16/16	1220	WG	3		3											
WDS-SB01	–	–	N	1	WDS-SB01-GW	6/16/16	1420	WG	3		3											*
WDS-SB02	–	–	N	1	WDS-SB02-GW	6/16/16	1445	WG	3		3											
WDS-SB03	–	–	N	1	WDS-SB03-GW	6/16/16	1515	WG	3		3											
FieldQC	–	–	TB	1	TB-GW-061516-01	6/15/16	0000	WQ	3		3											Trip Blank**
FieldQC	–	–	TB	1	TB-GW-061616-01	6/16/16	0000	WQ	3		3											Trip Blank*

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time	1. Relinquished By / Company	Date	Time
Amanda Martin AECOM	6/17/16	0830	XFER TO FEDEX	6/17/16	0830			
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time	2. Relinquished By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time	3. Relinquished By / Company	Date	Time
			Rachel Clear	18JUN16	1037			

Comments: Shipment Method/Airbill No. 8103 0202 5589

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

* One vial with less than pea-sized bubble. RD2 18 June 16
** all vials with less than pea-sized bubble. RD2 18 June 16

#002 @ 3.9°C

160606031

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-04
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB03	-	-	N	1	WDS-SB03-GW	6/16/16	1515	WG	7	054				4			2	1				pH okay < 2

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time		
Amanda Martin AECOM	6/17/16	0930	XFER TO FEDEX	6/17/16	0930		
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time		
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time		
			Rachel Clear	18 Jun 16	1037		

Comments

Shipment Method/Airbill No.: 8103 0202 5578

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Avengers 1, 5.6°C

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-65
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
P113-SB02	-	-	N	1	P113-SB02-GW	6/16/16	1220	WG	5	055				4					1			pH okay <2
WDS-SB01	-	-	N	1	WDS-SB01-GW	6/16/16	1420	WG	7	055				4			2	1				pH okay <2

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/17/16	Time 0830	1. Received By / Company	XPER TO FEDEX	Date 6/17/16	Time 0930
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	Rachel Dean	Date 18 JUN 16	Time 1037

Comments

Shipment Method/Airbill No. 8105 0202 5567

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

GLORY 01, 3.4°C

1606031

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-06
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB02	-	-	N	1	WDS-SB02-GW	6/16/16	1445	WG	7	0560				4			2	1				pH okay <2

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/17/16	Time: 0930	1. Received By / Company: XFER TO FEDEX	Date: 6/17/16	Time: 0930
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: Rachel Dean	Date: 16 JUN 16	Time: 1037

Comments

Shipment Method/Airbill No.: 8103 0202 5554

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

NOOB = 4.1°C

160G631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-07
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
P113-SB01	—	—	N	1	P113-SB01-GW	6/16/16	1145	WG	057	3				2	*			1	**			Only 2L for SVOC
WDS-SB08	—	—	N	1	WDS-SB08-GW	6/17/16	1055	WG	057	7				4			2	1				pH okay <2
																						** pH okay <2
																						Note Different Sampling Dates

GW

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/17/16	Time 1500	1. Received By / Company	XFER TO FEDEX	Date 6/17/16	Time 0500
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	Rachel Dear	Date 18Jun16	Time 1037

Comments

Shipment Method/Airbill No. 8103 0202 5545

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

* ME cap broke in transit. RD2 18Jun16
Sample discarded.

Big Blue 17, 4.1°C

1600631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061717-08
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
P113-SB01	–	–	N	1	P113-SB01-GW	6/16/16	1145	WG	3	058	3											
P113-SB03	–	–	N	1	P113-SB03-GW	6/16/16	1310	WG	6		3			2				1*				Only 2L for SVO
WDS-SB08	–	–	N	1	WDS-SB08-GW	6/17/16	1055	WG	3		3											*pH okay <2
WDS-SB15	–	–	N	1	WDS-SB15-GW	6/17/16	1100	WG	10		3			4			2	1				pH okay <2
FieldQC	–	–	TB	1	TB-GW-06171601	6/17/16	0800	WQ	3		3											Trip Blank**
FieldQC	–	–	TB	1	TB-GW-06161602	6/16/16	0810	WQ	3		3											Trip Blank ***
WDS-SB12	–	–	N	1	WDS-SB12-GW	6/17/16	1230	WG	3		3											Note Different
WDS-SB13	–	–	N	1	WDS-SB13-GW	6/17/16	1205	WG	3	↓	3											Sampling
																						Dates

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/17/16	Time: 1500	1. Received By / Company: XPER TO FEDEX	Date: 6/17/16	Time: 1500
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: Rachel Dean	Date: 18JUN16	Time: 1037

Comments

Shipment Method/Airbill No: 1Z8 0202 5534

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

** One cap cracked. RD2 18June16
*** two vial with very small air bubble RD2 18JUN16

Ice-10, 2.4°C

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-09
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB12	—	—	N	1	WDS-SB12-GW	6/17/16	1230	WG	7	059				4			2	1				pH okay <2

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/17/16	Time: 1500	1. Received By / Company: XFER TO FEDEX	Date: 6/17/16	Time: 1500
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: Rachel Dear	Date: 18 June 16	Time: 1037

Comments

Shipment Method/Airbill No.: 8030202 5523

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Big Blue 18 , 5.2°C

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-10
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
WDS-SB13	–	–	N	1	WDS-SB13-GW	6/17/16	1205	GG	7	OGO				4			2	1			pH okay <2

1. Relinquished By / Company: AECOM	Date: 6/17/16	Time: 1520	1. Received By / Company: XFER TO FEDEX	Date: 6/17/16	Time: 1520
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: Rachel Dean	Date: 18 JUN 16	Time: 1037
Comments			Shipment Method/Airbill No.: 816 0202 5572		

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Big Blue 19, 40-5.8

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060716-11
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
MW-H14-SB01	-	-	N	1	H14-SB01-GW	06/7/16	1300	WG	3	061						2		1				pH okay <2
MW-H14-SB03	-	-	N	1	H14-SB03-GW	↓	1330	WG	3							2		1				pH okay <2
MW-MP-SB03	-	-	N	1	MP-SB03-GW		1420	WG	11	↓	3			4			2			2		
FB	Field QC	-	-	TB	1	TB-GW-060716-02		0810	WQ	3		3*										Trip Blank

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
Amanda Mark AECOM	6/17/16	1745	XFER TO FEDEX	6/17/16	1745
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time
			Rachel Clear	18JUN16	1037

Comments: Dropped at Calverton NY FEDEX

Shipment Method/Airbill No.: 8105 0202 5501

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

#16-19

* one vial with small air bubble RDD 18JUN16

Cancelled due to temps: 16

Big Blue 16, 6.3 - 16.2°C

FedEx
TRK# 0215 8103 0202 5589

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CFAA

48150
MI-US
DTW

FID 552995 17JUN16 WSHA 539C

#053

Cooler ID:
#002

temperature:
3.9°C

CUSTODY SEALS
Date 6/17/16
Signature

CUSTODY SEALS
Date 6/17/16
Signature

FedEx
TRK# 0215 8103 0202 5578

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

X0 CFAA

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

#054

Cooler ID:

Avengers 1

temperature:

5.6°C

CUSTODY SEALS

Date 6/17/16

Signature

CUSTODY SEALS

Date 6/17/16

Signature

FedEx
TRK# 0215 8103 0202 5567

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

X0 CFAA

FID 552 MA 539C2/30BD/6A08

#055

Cooler ID:

GLORY01

temperature:

3.4°C

CUSTODY SEALS

Date 6/17/16

Signature

CUSTODY SEALS

Date 6/17/16

Signature

FedEx
TRK# 0215 8103 0202 5556

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

X0 CFAA

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

#C56

CUSTODY SEALS
Date 6/17/16
Signature

CUSTODY SEALS
Date 6/17/16
Signature

Cooler ID:
N00B
temperature
4.1°C

FedEx
TRK# 0215 8103 0202 5545

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

X0 CFAA

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

#057

Cooler ID:

Big Blue 17

temperature:

4.1°C

CUSTODY SEALS

Date 6/17/16

Signature

CUSTODY SEALS

Date 6/17/16

Signature

FedEx
TRK# 0215 8103 0202 5534

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

X0 CFAA

FID 552995 17JUN16 NWA 539C2/30BD/6A08

0588

CUSTODY SEALS
Date 6/17/16
Signature [signature]

CUSTODY SEALS
Date 6/17/16
Signature [signature]

Cooler ID:
L2-10
temperature
2.4°C

FedEx
TRK# 0215 8103 0202 5523

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 CFAA

48150
MI-US
DTW

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

WDS

WDS-SB12-GW

#059

Cooler ID
Big Blue -18

temperature
5.2°C

CUSTODY SEALS
Date
Signature

CUSTODY SEALS
Date 6/17/16
Signature Blue Dubin

FedEx
TRK# 0215 8103 0202 5512

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CFAA

48150
MI-US
DTW

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

No client # on cooler
per FedEx label
#060

Cooler ID:
BigBlue 19

temperature:
no blank
4.0 - 5.8

CUSTODY SEALS
Date 6/17/16
Signature Chris Wiens

CUSTODY SEALS
Date 6/17/16
Signature Chris Wiens

ORIGIN ID:WSHA (703) 682-4900
AECOM GCP

3101 WILSON BLVD STE 900

ARLINGTON, VA 222014446
UNITED STATES US

SHIP DATE: 17JUN16
ACTWGT: 64.00 LB
CAD: /POS1704
DIMS: 24x13x14 IN

BILL SENDER

TO KATHY GRIFFIN
RTI LABORATOIES
31628 GLENDALE ST

LIVONIA MI 48150
(734) 422-8000 REF:
INV:
PO: DEPT:

FedEx Express

TRK# 0215 8103 0202 5501

SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
48150
MI-US DTW

XO CFAA

#061

CUSTODY SEALS
Date
Signature

CUSTODY SEALS
Date
Signature

Cooler ID:
Big Blue 16

Temperature on ice, mostly melted

H14 SB01-GW : 9.3 - 13.3 °C
H14 SB03-GW : 9.1 - 11.5 °C
MP-SB03-GW : 6.3 - 15.8 °C
Trip Blanks : 15.8 - 16.2 °C

RD2
6-18-1

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606631

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606631-001A	WDS-SB10-GW		6/15/2016 3:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-001B	WDS-SB10-GW		6/15/2016 3:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-001C	WDS-SB10-GW		6/15/2016 3:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-001D	WDS-SB10-GW		6/15/2016 3:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-002A	P113-SB02-GW		6/16/2016 12:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-002B	P113-SB02-GW		6/16/2016 12:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-002C	P113-SB02-GW		6/16/2016 12:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-003A	WDS-SB01-GW		6/16/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-003B	WDS-SB01-GW		6/16/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-003C	WDS-SB01-GW		6/16/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-003D	WDS-SB01-GW		6/16/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-004A	WDS-SB02-GW		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-004B	WDS-SB02-GW		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-004C	WDS-SB02-GW		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-004D	WDS-SB02-GW		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Groundwater
1606631-005A	WDS-SB03-GW		6/16/2016 3:15 PM	6/18/2016 10:37 AM	Groundwater
1606631-005B	WDS-SB03-GW		6/16/2016 3:15 PM	6/18/2016 10:37 AM	Groundwater
1606631-005C	WDS-SB03-GW		6/16/2016 3:15 PM	6/18/2016 10:37 AM	Groundwater
1606631-005D	WDS-SB03-GW		6/16/2016 3:15 PM	6/18/2016 10:37 AM	Groundwater
1606631-006A	TB-GW-061516-01		6/15/2016 8:00 AM	6/18/2016 10:37 AM	Water
1606631-007A	TB-GW-061616-01		6/16/2016 8:00 AM	6/18/2016 10:37 AM	Water
1606631-008A	P113-SB01-GW		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Groundwater
1606631-008B	P113-SB01-GW		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Groundwater
1606631-008C	P113-SB01-GW		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Groundwater
1606631-009A	P113-SB03-GW		6/16/2016 1:10 PM	6/18/2016 10:37 AM	Groundwater
1606631-009B	P113-SB03-GW		6/16/2016 1:10 PM	6/18/2016 10:37 AM	Groundwater
1606631-009C	P113-SB03-GW		6/16/2016 1:10 PM	6/18/2016 10:37 AM	Groundwater
1606631-010A	WDS-SB08-GW		6/17/2016 10:55 AM	6/18/2016 10:37 AM	Groundwater
1606631-010B	WDS-SB08-GW		6/17/2016 10:55 AM	6/18/2016 10:37 AM	Groundwater
1606631-010C	WDS-SB08-GW		6/17/2016 10:55 AM	6/18/2016 10:37 AM	Groundwater
1606631-010D	WDS-SB08-GW		6/17/2016 10:55 AM	6/18/2016 10:37 AM	Groundwater
1606631-011A	WDS-SB15-GW		6/17/2016 11:00 AM	6/18/2016 10:37 AM	Groundwater
1606631-011B	WDS-SB15-GW		6/17/2016 11:00 AM	6/18/2016 10:37 AM	Groundwater
1606631-011C	WDS-SB15-GW		6/17/2016 11:00 AM	6/18/2016 10:37 AM	Groundwater
1606631-011D	WDS-SB15-GW		6/17/2016 11:00 AM	6/18/2016 10:37 AM	Groundwater
1606631-012A	TB-GW-061716-01		6/17/2016 8:00 AM	6/18/2016 10:37 AM	Water
1606631-013A	TB-GW-061616-02		6/16/2016 8:10 AM	6/18/2016 10:37 AM	Water
1606631-014A	WDS-SB12-GW		6/17/2016 12:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-014B	WDS-SB12-GW		6/17/2016 12:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-014C	WDS-SB12-GW		6/17/2016 12:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-014D	WDS-SB12-GW		6/17/2016 12:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-015A	WDS-SB13-GW		6/17/2016 12:05 PM	6/18/2016 10:37 AM	Groundwater
1606631-015B	WDS-SB13-GW		6/17/2016 12:05 PM	6/18/2016 10:37 AM	Groundwater
1606631-015C	WDS-SB13-GW		6/17/2016 12:05 PM	6/18/2016 10:37 AM	Groundwater
1606631-015D	WDS-SB13-GW		6/17/2016 12:05 PM	6/18/2016 10:37 AM	Groundwater

RTI Laboratories - Workorder Sample Summary

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606631-016A	H14-SB01-GW		6/17/2016 1:00 PM	6/18/2016 10:37 AM	Groundwater
1606631-016B	H14-SB01-GW		6/17/2016 1:00 PM	6/18/2016 10:37 AM	Groundwater
1606631-017A	H14-SB03-GW		6/17/2016 1:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-017B	H14-SB03-GW		6/17/2016 1:30 PM	6/18/2016 10:37 AM	Groundwater
1606631-018A	MP-SB03-GW		6/17/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-018B	MP-SB03-GW		6/17/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-018C	MP-SB03-GW		6/17/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-018D	MP-SB03-GW		6/17/2016 2:20 PM	6/18/2016 10:37 AM	Groundwater
1606631-019A	TB-GW-061716-02		6/17/2016 8:10 AM	6/18/2016 10:37 AM	Water

RTI Laboratories - Case Narrative

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)
Project:	Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Metals, ICP/MS - 6020A
- Metals, ICP/MS - 6020A-PB-STAR
- Silver and/or Antimony, ICP/MS - 6020A-SA
- Polychlorinated Biphenyls - 8082A
- Volatile Organic Compounds - 8260C
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM

Sample 1606631-003B for SW_8270A-SIM analysis required to be performed with 4 different dilutions in order to report all compounds with in a working calibration range. Please note the third dilution (50) and the fourth dilution (200) were analyzed past the recommended hold time.

Analytical Comments for Test SW_6020A, Analytical Run No 87684, Batch ID 40440:
- Sample 1606631-005DMS: Recoveries for Calcium and Aluminum exceeded control limits.
- Sample 1606631-005DMSD: Recoveries for Calcium, Sodium and Aluminum exceeded control limits.

Analytical Comments for Test SW_8082A, Analytical Run No 87065, Batch ID 40264:
- Sample 1606631-004C: Decachlorobiphenyl surrogate exceeded control limit.

Analytical Comments for Test SW_8260A, Analytical Run No 86945, Batch ID R86945:
- Sample VOA11B CCV2 062616: Acetone, Bromoform, chloromethane, Trichlorofluoromethane, 2-hexanone and bromomethane exceed the 20% criteria.
- Sample VOA11B MBLK2 062: Chloromethane detected in method blank in concentrations > 1/2 LOQ. Surrogate exceeded QC limit.
- Sample VOA11B LCS2 0626: LCS results for Bromodichloromethane,Chlorodibromomethane,cis-1,3-Dichloropropene, Chloromethane, and Bromoform exceed the 20% criteria.
- Sample VOA11B LCSD2 062: Spike recoveries for several compounds were outside the control limits.
- Sample 1606631-007A: Surrogate recovery for Toluene-d8 exceeded QC limit.
- Sample 1606631-012A: Surrogate recovery for Toluene-d8 exceeded QC limit.
- Sample 1606631-013A: Surrogate recovery for Toluene-d8 exceeded QC limit.
- Sample VOA11B CCVE 062616: Trichlorofluoromethane and bromomethane exceed the 50% criteria.

Analytical Comments for Test SW_8260A, Analytical Run No 86984, Batch ID R86984:
- Sample VOA10 CCV 062816: 1,2-Dibromo-3-chloropropane exceed the 20% criteria.
- Sample VOA10 LCSD 06281: 1,2-Dibromo-3-chloropropane, Bromoform and Chlorobenzene exceed limits. RPD for 1,2-Dibromo-3-chloropropane and Chloroethane were outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86948, Batch ID 40220:
- Sample LCS-40220: Spike recoveries for 4-Nitrophenol, N-Nitrosodimethylamine and Phenol were outside the control limits.
- Sample LCSD-40220: Spike recoveries for 4-Nitrophenol, Benzoic acid, and N-Nitrosodimethylamine were outside the control limits.
- Sample 1606631-001B: Surrogate Phenol-d5 exceeded recovery control limit.
- Sample 1606631-002B: Surrogate Phenol-d5 exceeded recovery control limit.
- Sample 1606631-003B: Surrogate Phenol-d5, 2-Fluorobiphenyl, Terphenyl-d14 and Nitrobenzene-d5
- Sample 1606631-004B: Surrogate Phenol-d5, Nitrobenzene-d5 Terphenyl-d14 and 2-Fluorobiphenyl exceeded recovery control limit.
- Sample 1606631-005B: Surrogate Phenol-d5, 2-Fluorobiphenyl and Nitrobenzene-d5 exceeded recovery control limit.
- Sample 1606631-009B: Surrogate Phenol-d5 and Terphenyl-d14 exceeded recovery control limit.
- Sample 1606631-010B: Surrogate Phenol-d5, 2-Fluorobiphenyl and Nitrobenzene-d5 exceeded recovery control limit.
- Sample 1606631-011B: Surrogate Phenol-d5 exceeded recovery control limit.
- Sample 1606631-014B: Surrogate Phenol-d5 exceeded recovery control limit.
- Sample 1606631-015B: Surrogate Phenol-d5 exceeded recovery control limit.
- Sample MB-40220: Surrogates 2,4,6-Tribromophenol, 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86948, Batch ID R86948:
- Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic Acid exceeded control limit.
- Sample CCV S8 062616: CCV results 2,4-Dinitrophenol, Benzoic acid, N-Nitrosodiphenylamine and Pentachlorophenol
- Sample CCVE S8 062616: Ending CCV results for Benzoic acid exceeded recovery control limit.

Analytical Comments for 8270D, Sample CCVE SIM 062716S7, Batch ID R87615 : Due to the nature of the samples the recovery for Benzo(g,h,I) perylene failed.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87461, Batch ID 40213:
- Sample 1606631-005B: Surrogate recoveries for 2-Fluorobiphenyl, and Nitrobenzene-d5 were outside the control limits.
- Sample 1606631-008B: Surrogate recovery for 2-Fluorobiphenyl was outside the control limits.
- Sample 1606631-009B: Surrogate recoveries for 2-Fluorobiphenyl, and Terpheny;l-d14 were outside the control limits.
- Sample 1606631-005B: Surrogate recoveries for 2-Fluorobiphenyl, and Nitrobenzene-d5 were outside the control limits.

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 3:45:00 PM
Project: Camp Hero
Lab ID: 1606631-001 **Matrix:** Groundwater
Client Sample ID: WDS-SB10-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.095	µg/L	1	6/29/2016 3:48 AM
Aroclor 1221	0.038	U	0.029	0.038	0.095	µg/L	1	6/29/2016 3:48 AM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/29/2016 3:48 AM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/29/2016 3:48 AM
Aroclor 1248	0.038	U	0.030	0.038	0.095	µg/L	1	6/29/2016 3:48 AM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 3:48 AM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/29/2016 3:48 AM
Aroclor 1262	0.095	U	0.049	0.095	0.19	µg/L	1	6/29/2016 3:48 AM
Aroclor 1268	0.038	U	0.027	0.038	0.095	µg/L	1	6/29/2016 3:48 AM
Surr: Tetrachloro-m-xylene	43.6			40-135		%Rec	1	6/29/2016 3:48 AM
Surr: Decachlorobiphenyl	61.5			40-135		%Rec	1	6/29/2016 3:48 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	52,000		14	25	500	µg/L	50	7/28/2016 5:51 PM
Arsenic	5.6		0.61	1.0	1.5	µg/L	5	7/28/2016 3:15 PM
Barium	350		0.18	0.50	25	µg/L	5	7/28/2016 3:15 PM
Beryllium	2.7	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:15 PM
Cadmium	0.36	J	0.27	0.50	1.0	µg/L	5	7/28/2016 3:15 PM
Calcium	3,500	J	450	620	5,000	µg/L	25	7/28/2016 7:07 PM
Chromium	79		1.5	2.5	50	µg/L	25	7/28/2016 7:07 PM
Cobalt	31		0.60	2.5	25	µg/L	25	7/28/2016 7:07 PM
Copper	54	G	1.2	2.5	25	µg/L	25	7/28/2016 7:07 PM
Iron	52,000		480	1,200	2,000	µg/L	50	7/28/2016 5:51 PM
Lead	22		0.24	0.50	1.0	µg/L	5	7/28/2016 3:15 PM
Magnesium	12,000		200	620	2,500	µg/L	25	7/28/2016 7:07 PM
Manganese	1,300		1.3	2.5	25	µg/L	25	7/28/2016 7:07 PM
Nickel	39	J	1.0	2.5	50	µg/L	25	7/28/2016 7:07 PM
Potassium	7,200		530	620	2,500	µg/L	25	7/28/2016 7:07 PM
Selenium	2.4	J	1.5	2.5	5.0	µg/L	5	7/28/2016 3:15 PM
Sodium	19,000		290	620	2,500	µg/L	25	7/28/2016 7:07 PM
Thallium	0.94	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:15 PM
Vanadium	85		2.4	2.5	20	µg/L	25	7/28/2016 7:07 PM
Zinc	95		1.8	2.5	50	µg/L	5	7/28/2016 3:15 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	8.6	G	0.19	0.75	2.5	µg/L	5	7/12/2016 2:53 PM
Silver	7.8		0.24	0.50	1.5	µg/L	5	7/12/2016 2:53 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:07 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 3:45:00 PM
Project: Camp Hero
Lab ID: 1606631-001 **Matrix:** Groundwater
Client Sample ID: WDS-SB10-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.8	µg/L	1	6/26/2016 3:07 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2,4-Dimethyl phenol	0.94	U	0.52	0.94	4.7	µg/L	1	6/26/2016 3:07 PM
2,4-Dinitrophenol	9.4	UY	5.4	9.4	24	µg/L	1	6/26/2016 3:07 PM
2,4-Dinitrotoluene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2,6-Dinitrotoluene	0.47	U	0.27	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2-Chloronaphthalene	0.94	U	0.65	0.94	4.7	µg/L	1	6/26/2016 3:07 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
2-Nitrophenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
3,3´-Dichlorobenzidine	9.4	U	5.2	9.4	19	µg/L	1	6/26/2016 3:07 PM
3-Nitroaniline	0.94	U	0.32	0.94	9.4	µg/L	1	6/26/2016 3:07 PM
3/4-Methylphenol [m/p-Cresol]	0.94	U	0.36	0.94	9.4	µg/L	1	6/26/2016 3:07 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.4	µg/L	1	6/26/2016 3:07 PM
4-Bromophenyl phenyl ether	2.4	U	0.95	2.4	4.7	µg/L	1	6/26/2016 3:07 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.4	µg/L	1	6/26/2016 3:07 PM
4-Chlorophenyl phenyl ether	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.4	µg/L	1	6/26/2016 3:07 PM
4-Nitrophenol	9.4	UQ	4.3	9.4	24	µg/L	1	6/26/2016 3:07 PM
Benzoic acid	9.4	UY QZ	3.5	9.4	24	µg/L	1	6/26/2016 3:07 PM
Benzyl alcohol	0.47	U	0.37	0.47	24	µg/L	1	6/26/2016 3:07 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.94	µg/L	1	6/26/2016 3:07 PM
Bis(2-chloroisopropyl)ether	0.47	UZ	0.22	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Carbazole	0.47	U	0.091	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Dibenzofuran	0.47	U	0.18	0.47	3.8	µg/L	1	6/26/2016 3:07 PM
Diethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.94	µg/L	1	6/26/2016 3:07 PM
Hexachlorobutadiene	0.47	U	0.30	0.47	0.94	µg/L	1	6/26/2016 3:07 PM
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Isophorone	0.94	U	0.92	0.94	4.7	µg/L	1	6/26/2016 3:07 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
N-Nitrosodimethylamine	0.47	UQ	0.30	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
N-Nitrosodiphenylamine	0.47	UY	0.15	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/26/2016 3:07 PM
Pentachlorophenol	2.4	UY	1.5	2.4	4.7	µg/L	1	6/26/2016 3:07 PM
Phenol	0.47	UQ	0.13	0.47	4.7	µg/L	1	6/26/2016 3:07 PM
Surr: 2,4,6-Tribromophenol	74.6			43-140		%Rec	1	6/26/2016 3:07 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 3:45:00 PM
Project: Camp Hero
Lab ID: 1606631-001 **Matrix:** Groundwater
Client Sample ID: WDS-SB10-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	44.8			44-119		%Rec	1	6/26/2016 3:07 PM
Surr: 2-Fluorophenol	27.5	J		19-119		%Rec	1	6/26/2016 3:07 PM
Surr: Nitrobenzene-d5	44.6			44-120		%Rec	1	6/26/2016 3:07 PM
Surr: Phenol-d5	17.7	JQ		30-130		%Rec	1	6/26/2016 3:07 PM
Surr: Terphenyl-d14	67.1			50-134		%Rec	1	6/26/2016 3:07 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
2-Methylnaphthalene	0.031		0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Naphthalene	0.023		0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Phenanthrene	0.030		0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:18 PM
Surr: 2-Fluorobiphenyl	75.0			53-106		%Rec	1	6/22/2016 9:18 PM
Surr: Nitrobenzene-d5	72.8			55-111		%Rec	1	6/22/2016 9:18 PM
Surr: Terphenyl-d14	103			58-132		%Rec	1	6/22/2016 9:18 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 12:22 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	6/28/2016 12:22 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 12:22 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 12:22 PM
Acetone	5.0	J	0.56	0.60	10	µg/L	1	6/28/2016 12:22 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 3:45:00 PM
Project: Camp Hero
Lab ID: 1606631-001 **Matrix:** Groundwater
Client Sample ID: WDS-SB10-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 12:22 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 12:22 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 12:22 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 12:22 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 12:22 PM
Surr: 4-Bromofluorobenzene	96.0			85-114		%Rec	1	6/28/2016 12:22 PM
Surr: Dibromofluoromethane	87.1			80-119		%Rec	1	6/28/2016 12:22 PM
Surr: Toluene-d8	92.7			89-112		%Rec	1	6/28/2016 12:22 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 12:20:00 PM
Project: Camp Hero
Lab ID: 1606631-002 **Matrix:** Groundwater
Client Sample ID: P113-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	37	G	0.24	0.50	1.0	µg/L	5	7/13/2016 2:05 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2,4,5-Trichlorophenol	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.8	µg/L	1	6/26/2016 3:32 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2,4-Dimethyl phenol	0.94	U	0.52	0.94	4.7	µg/L	1	6/26/2016 3:32 PM
2,4-Dinitrophenol	9.4	UY	5.4	9.4	24	µg/L	1	6/26/2016 3:32 PM
2,4-Dinitrotoluene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2,6-Dinitrotoluene	0.47	U	0.27	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2-Chloronaphthalene	0.94	U	0.65	0.94	4.7	µg/L	1	6/26/2016 3:32 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
2-Nitrophenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
3,3´-Dichlorobenzidine	9.4	U	5.2	9.4	19	µg/L	1	6/26/2016 3:32 PM
3-Nitroaniline	0.94	U	0.32	0.94	9.4	µg/L	1	6/26/2016 3:32 PM
3/4-Methylphenol [m/p-Cresol]	0.94	U	0.36	0.94	9.4	µg/L	1	6/26/2016 3:32 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.4	µg/L	1	6/26/2016 3:32 PM
4-Bromophenyl phenyl ether	2.4	U	0.95	2.4	4.7	µg/L	1	6/26/2016 3:32 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.4	µg/L	1	6/26/2016 3:32 PM
4-Chlorophenyl phenyl ether	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.4	µg/L	1	6/26/2016 3:32 PM
4-Nitrophenol	9.4	UQ	4.3	9.4	24	µg/L	1	6/26/2016 3:32 PM
Benzoic acid	9.4	UY QZ	3.5	9.4	24	µg/L	1	6/26/2016 3:32 PM
Benzyl alcohol	0.47	U	0.37	0.47	24	µg/L	1	6/26/2016 3:32 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.94	µg/L	1	6/26/2016 3:32 PM
Bis(2-chloroisopropyl)ether	0.47	UZ	0.22	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Carbazole	0.47	U	0.091	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Dibenzofuran	0.47	U	0.18	0.47	3.8	µg/L	1	6/26/2016 3:32 PM
Diethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.94	µg/L	1	6/26/2016 3:32 PM
Hexachlorobutadiene	0.47	U	0.30	0.47	0.94	µg/L	1	6/26/2016 3:32 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 12:20:00 PM
Project: Camp Hero
Lab ID: 1606631-002 **Matrix:** Groundwater
Client Sample ID: P113-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Isophorone	0.94	U	0.92	0.94	4.7	µg/L	1	6/26/2016 3:32 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
N-Nitrosodimethylamine	0.47	UQ	0.30	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
N-Nitrosodiphenylamine	0.47	UY	0.15	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/26/2016 3:32 PM
Pentachlorophenol	2.4	UY	1.5	2.4	4.7	µg/L	1	6/26/2016 3:32 PM
Phenol	0.47	UQ	0.13	0.47	4.7	µg/L	1	6/26/2016 3:32 PM
Surr: 2,4,6-Tribromophenol	73.5			43-140		%Rec	1	6/26/2016 3:32 PM
Surr: 2-Fluorobiphenyl	48.6			44-119		%Rec	1	6/26/2016 3:32 PM
Surr: 2-Fluorophenol	28.8	J		19-119		%Rec	1	6/26/2016 3:32 PM
Surr: Nitrobenzene-d5	47.8			44-120		%Rec	1	6/26/2016 3:32 PM
Surr: Phenol-d5	17.7	JQ		30-130		%Rec	1	6/26/2016 3:32 PM
Surr: Terphenyl-d14	71.7			50-134		%Rec	1	6/26/2016 3:32 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
2-Methylnaphthalene	0.029		0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Naphthalene	0.019		0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Phenanthrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 9:45 PM
Surr: 2-Fluorobiphenyl	68.6			53-106		%Rec	1	6/22/2016 9:45 PM
Surr: Nitrobenzene-d5	66.2			55-111		%Rec	1	6/22/2016 9:45 PM
Surr: Terphenyl-d14	89.6			58-132		%Rec	1	6/22/2016 9:45 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 12:48 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 12:48 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 12:20:00 PM
Project: Camp Hero
Lab ID: 1606631-002 **Matrix:** Groundwater
Client Sample ID: P113-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	6/28/2016 12:48 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 12:48 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 12:48 PM
Acetone	2.4	J	0.56	0.60	10	µg/L	1	6/28/2016 12:48 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 12:48 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 12:48 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 12:48 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 12:48 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 12:48 PM
Surr: 4-Bromofluorobenzene	98.1			85-114		%Rec	1	6/28/2016 12:48 PM
Surr: Dibromofluoromethane	84.9			80-119		%Rec	1	6/28/2016 12:48 PM
Surr: Toluene-d8	92.0			89-112		%Rec	1	6/28/2016 12:48 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606631-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	6/29/2016 4:12 AM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	6/29/2016 4:12 AM
Aroclor 1232	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 4:12 AM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	6/29/2016 4:12 AM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	6/29/2016 4:12 AM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	6/29/2016 4:12 AM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	6/29/2016 4:12 AM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	6/29/2016 4:12 AM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	6/29/2016 4:12 AM
Surr: Tetrachloro-m-xylene	47.3			40-135		%Rec	1	6/29/2016 4:12 AM
Surr: Decachlorobiphenyl	61.0			40-135		%Rec	1	6/29/2016 4:12 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	29,000		14	25	500	µg/L	50	7/28/2016 5:52 PM
Arsenic	8.3		0.61	1.0	1.5	µg/L	5	7/28/2016 3:17 PM
Barium	190		0.18	0.50	25	µg/L	5	7/28/2016 3:17 PM
Beryllium	1.1	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:17 PM
Cadmium	1.5		0.27	0.50	1.0	µg/L	5	7/28/2016 3:17 PM
Calcium	9,200		90	120	1,000	µg/L	5	7/28/2016 3:17 PM
Chromium	40		0.30	0.50	10	µg/L	5	7/28/2016 3:17 PM
Cobalt	12		0.12	0.50	5.0	µg/L	5	7/28/2016 3:17 PM
Copper	40	G	0.24	0.50	5.0	µg/L	5	7/28/2016 3:17 PM
Iron	25,000		48	120	200	µg/L	5	7/28/2016 3:17 PM
Lead	56		0.24	0.50	1.0	µg/L	5	7/28/2016 3:17 PM
Magnesium	11,000		41	120	500	µg/L	5	7/28/2016 3:17 PM
Manganese	450	G	0.26	0.50	5.0	µg/L	5	7/28/2016 3:17 PM
Nickel	32		0.20	0.50	10	µg/L	5	7/28/2016 3:17 PM
Potassium	4,400		110	120	500	µg/L	5	7/28/2016 3:17 PM
Selenium	1.8	J	1.5	2.5	5.0	µg/L	5	7/28/2016 3:17 PM
Sodium	30,000		58	120	500	µg/L	5	7/28/2016 3:17 PM
Thallium	0.57	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:17 PM
Vanadium	51		0.49	0.50	4.0	µg/L	5	7/28/2016 3:17 PM
Zinc	110		1.8	2.5	50	µg/L	5	7/28/2016 3:17 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.4	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 2:54 PM
Silver	0.42	J	0.24	0.50	1.5	µg/L	5	7/12/2016 2:54 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 3:57 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606631-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.7	µg/L	1	6/26/2016 3:57 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2,4-Dimethyl phenol	0.93	U	0.52	0.93	4.7	µg/L	1	6/26/2016 3:57 PM
2,4-Dinitrophenol	9.3	UY	5.3	9.3	23	µg/L	1	6/26/2016 3:57 PM
2,4-Dinitrotoluene	0.59	J	0.23	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2,6-Dinitrotoluene	0.47	U	0.26	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2-Chloronaphthalene	0.93	U	0.65	0.93	4.7	µg/L	1	6/26/2016 3:57 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
2-Nitrophenol	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
3,3´-Dichlorobenzidine	9.3	U	5.2	9.3	19	µg/L	1	6/26/2016 3:57 PM
3-Nitroaniline	0.93	U	0.32	0.93	9.3	µg/L	1	6/26/2016 3:57 PM
3/4-Methylphenol [m/p-Cresol]	0.93	U	0.36	0.93	9.3	µg/L	1	6/26/2016 3:57 PM
4,6-Dinitro-2-methylphenol	2.3	U	1.5	2.3	9.3	µg/L	1	6/26/2016 3:57 PM
4-Bromophenyl phenyl ether	2.3	U	0.94	2.3	4.7	µg/L	1	6/26/2016 3:57 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.3	µg/L	1	6/26/2016 3:57 PM
4-Chlorophenyl phenyl ether	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.3	µg/L	1	6/26/2016 3:57 PM
4-Nitrophenol	9.3	UQ	4.3	9.3	23	µg/L	1	6/26/2016 3:57 PM
Benzoic acid	9.6	JY QZ	3.5	9.3	23	µg/L	1	6/26/2016 3:57 PM
Benzyl alcohol	0.47	U	0.37	0.47	23	µg/L	1	6/26/2016 3:57 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 3:57 PM
Bis(2-chloroisopropyl)ether	0.47	UZ	0.22	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Carbazole	7.6		0.090	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Dibenzofuran	13		0.18	0.47	3.7	µg/L	1	6/26/2016 3:57 PM
Diethyl phthalate	0.47	U	0.15	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 3:57 PM
Hexachlorobutadiene	0.47	U	0.29	0.47	0.93	µg/L	1	6/26/2016 3:57 PM
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Isophorone	0.93	U	0.91	0.93	4.7	µg/L	1	6/26/2016 3:57 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
N-Nitrosodimethylamine	0.47	UQ	0.29	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
N-Nitrosodiphenylamine	0.47	UY	0.15	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/26/2016 3:57 PM
Pentachlorophenol	2.3	UY	1.5	2.3	4.7	µg/L	1	6/26/2016 3:57 PM
Phenol	0.47	UQ	0.13	0.47	4.7	µg/L	1	6/26/2016 3:57 PM
Surr: 2,4,6-Tribromophenol	45.1			43-140		%Rec	1	6/26/2016 3:57 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606631-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	28.2	Q		44-119		%Rec	1	6/26/2016 3:57 PM
Surr: 2-Fluorophenol	24.0	J		19-119		%Rec	1	6/26/2016 3:57 PM
Surr: Nitrobenzene-d5	29.9	Q		44-120		%Rec	1	6/26/2016 3:57 PM
Surr: Phenol-d5	15.5	JQ		30-130		%Rec	1	6/26/2016 3:57 PM
Surr: Terphenyl-d14	42.6	Q		50-134		%Rec	1	6/26/2016 3:57 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	16	H	0.93	0.93	0.93	µg/L	50	8/4/2016 6:29 PM
2-Methylnaphthalene	5.5	H	0.93	0.93	0.93	µg/L	50	8/4/2016 6:29 PM
Acenaphthene	20	H	0.93	0.93	0.93	µg/L	50	8/4/2016 6:29 PM
Acenaphthylene	0.72		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Anthracene	0.78		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Benz(a)anthracene	0.30		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Benzo(a)pyrene	0.073		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Benzo(b)fluoranthene	0.16		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Benzo(g,h,i)perylene	0.073		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Benzo(k)fluoranthene	0.051		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Chrysene	0.14		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Fluoranthene	2.3		0.093	0.093	0.093	µg/L	5	6/24/2016 9:15 PM
Fluorene	9.8	H	0.93	0.93	0.93	µg/L	50	8/4/2016 6:29 PM
Indeno(1,2,3-cd)pyrene	0.061		0.019	0.019	0.019	µg/L	1	6/22/2016 10:12 PM
Naphthalene	92	H	3.7	3.7	3.7	µg/L	200	8/5/2016 2:52 PM
Phenanthrene	7.8	H	0.93	0.93	0.93	µg/L	50	8/4/2016 6:29 PM
Pyrene	1.8		0.093	0.093	0.093	µg/L	5	6/24/2016 9:15 PM
Surr: 2-Fluorobiphenyl	24.6	Q		53-106		%Rec	1	6/22/2016 10:12 PM
Surr: Nitrobenzene-d5	31.5	Q		55-111		%Rec	1	6/22/2016 10:12 PM
Surr: Terphenyl-d14	40.9	Q		58-132		%Rec	1	6/22/2016 10:12 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 1:14 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,2-Dibromo-3-chloropropane	2.0	UY Q	1.0	2.0	5.0	µg/L	1	6/28/2016 1:14 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 1:14 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 1:14 PM
Acetone	3.2	J	0.56	0.60	10	µg/L	1	6/28/2016 1:14 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606631-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 1:14 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Ethylbenzene	1.4		0.43	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 1:14 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Toluene	0.56	J	0.50	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 1:14 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 1:14 PM
Xylene (total)	2.6	J	1.3	1.8	3.0	µg/L	1	6/28/2016 1:14 PM
Surr: 4-Bromofluorobenzene	97.5			85-114		%Rec	1	6/28/2016 1:14 PM
Surr: Dibromofluoromethane	86.2			80-119		%Rec	1	6/28/2016 1:14 PM
Surr: Toluene-d8	90.3			89-112		%Rec	1	6/28/2016 1:14 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606631-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	6/29/2016 4:36 AM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	6/29/2016 4:36 AM
Aroclor 1232	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 4:36 AM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	6/29/2016 4:36 AM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	6/29/2016 4:36 AM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	6/29/2016 4:36 AM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	6/29/2016 4:36 AM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	6/29/2016 4:36 AM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	6/29/2016 4:36 AM
Surr: Tetrachloro-m-xylene	25.3	Q		40-135		%Rec	1	6/29/2016 4:36 AM
Surr: Decachlorobiphenyl	41.9			40-135		%Rec	1	6/29/2016 4:36 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	15,000		14	25	500	µg/L	50	7/28/2016 5:53 PM
Arsenic	5.4		0.61	1.0	1.5	µg/L	5	7/28/2016 3:19 PM
Barium	110		0.18	0.50	25	µg/L	5	7/28/2016 3:19 PM
Beryllium	0.79	JG	0.25	0.50	1.0	µg/L	5	7/28/2016 3:19 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 3:19 PM
Calcium	10,000		90	120	1,000	µg/L	5	7/28/2016 3:19 PM
Chromium	23		0.30	0.50	10	µg/L	5	7/28/2016 3:19 PM
Cobalt	11		0.12	0.50	5.0	µg/L	5	7/28/2016 3:19 PM
Copper	32	G	0.24	0.50	5.0	µg/L	5	7/28/2016 3:19 PM
Iron	22,000		48	120	200	µg/L	5	7/28/2016 3:19 PM
Lead	12		0.24	0.50	1.0	µg/L	5	7/28/2016 3:19 PM
Magnesium	7,900		41	120	500	µg/L	5	7/28/2016 3:19 PM
Manganese	510	G	0.26	0.50	5.0	µg/L	5	7/28/2016 3:19 PM
Nickel	18		0.20	0.50	10	µg/L	5	7/28/2016 3:19 PM
Potassium	3,200		110	120	500	µg/L	5	7/28/2016 3:19 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/28/2016 3:19 PM
Sodium	28,000		58	120	500	µg/L	5	7/28/2016 3:19 PM
Thallium	0.24	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:19 PM
Vanadium	30		0.49	0.50	4.0	µg/L	5	7/28/2016 3:19 PM
Zinc	67		1.8	2.5	50	µg/L	5	7/28/2016 3:19 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.61	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 2:55 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 2:55 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:22 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 2:45:00 PM
Project:	Camp Hero		
Lab ID:	1606631-004	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.7	µg/L	1	6/26/2016 4:22 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2,4-Dimethyl phenol	0.93	U	0.52	0.93	4.7	µg/L	1	6/26/2016 4:22 PM
2,4-Dinitrophenol	9.3	UY	5.3	9.3	23	µg/L	1	6/26/2016 4:22 PM
2,4-Dinitrotoluene	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2,6-Dinitrotoluene	0.47	U	0.26	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2-Chloronaphthalene	0.93	U	0.65	0.93	4.7	µg/L	1	6/26/2016 4:22 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
2-Nitrophenol	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
3,3´-Dichlorobenzidine	9.3	U	5.2	9.3	19	µg/L	1	6/26/2016 4:22 PM
3-Nitroaniline	0.93	U	0.32	0.93	9.3	µg/L	1	6/26/2016 4:22 PM
3/4-Methylphenol [m/p-Cresol]	0.93	U	0.36	0.93	9.3	µg/L	1	6/26/2016 4:22 PM
4,6-Dinitro-2-methylphenol	2.3	U	1.5	2.3	9.3	µg/L	1	6/26/2016 4:22 PM
4-Bromophenyl phenyl ether	2.3	U	0.94	2.3	4.7	µg/L	1	6/26/2016 4:22 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.3	µg/L	1	6/26/2016 4:22 PM
4-Chlorophenyl phenyl ether	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.3	µg/L	1	6/26/2016 4:22 PM
4-Nitrophenol	9.3	UQ	4.3	9.3	23	µg/L	1	6/26/2016 4:22 PM
Benzoic acid	15	JY QZ	3.5	9.3	23	µg/L	1	6/26/2016 4:22 PM
Benzyl alcohol	0.47	U	0.37	0.47	23	µg/L	1	6/26/2016 4:22 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 4:22 PM
Bis(2-chloroisopropyl)ether	0.47	UZ	0.22	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Carbazole	4.4	J	0.090	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Dibenzofuran	9.4		0.18	0.47	3.7	µg/L	1	6/26/2016 4:22 PM
Diethyl phthalate	0.47	U	0.15	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 4:22 PM
Hexachlorobutadiene	0.47	U	0.29	0.47	0.93	µg/L	1	6/26/2016 4:22 PM
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Isophorone	0.93	U	0.91	0.93	4.7	µg/L	1	6/26/2016 4:22 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
N-Nitrosodimethylamine	0.47	UQ	0.29	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
N-Nitrosodiphenylamine	0.47	UY	0.15	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/26/2016 4:22 PM
Pentachlorophenol	2.3	UY	1.5	2.3	4.7	µg/L	1	6/26/2016 4:22 PM
Phenol	0.47	UQ	0.13	0.47	4.7	µg/L	1	6/26/2016 4:22 PM
Surr: 2,4,6-Tribromophenol	49.6			43-140		%Rec	1	6/26/2016 4:22 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606631-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	32.8	Q		44-119		%Rec	1	6/26/2016 4:22 PM
Surr: 2-Fluorophenol	30.1	J		19-119		%Rec	1	6/26/2016 4:22 PM
Surr: Nitrobenzene-d5	41.4	Q		44-120		%Rec	1	6/26/2016 4:22 PM
Surr: Phenol-d5	20.4	JQ		30-130		%Rec	1	6/26/2016 4:22 PM
Surr: Terphenyl-d14	24.8	Q		50-134		%Rec	1	6/26/2016 4:22 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	44		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
2-Methylnaphthalene	11		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Acenaphthene	45		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Acenaphthylene	1.4		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Anthracene	8.7		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Benz(a)anthracene	0.18		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Benzo(a)pyrene	0.048		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Benzo(b)fluoranthene	0.10		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Benzo(g,h,i)perylene	0.025		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Benzo(k)fluoranthene	0.034		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Chrysene	0.082		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Fluoranthene	4.2		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Fluorene	21		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Indeno(1,2,3-cd)pyrene	0.022		0.019	0.019	0.019	µg/L	1	6/22/2016 10:40 PM
Naphthalene	200	J	1.9	1.9	1.9	µg/L	100	6/24/2016 10:12 PM
Phenanthrene	11		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Pyrene	2.4		0.93	0.93	0.93	µg/L	50	6/24/2016 9:43 PM
Surr: 2-Fluorobiphenyl	58.4			53-106		%Rec	1	6/22/2016 10:40 PM
Surr: Nitrobenzene-d5	73.6			55-111		%Rec	1	6/22/2016 10:40 PM
Surr: Terphenyl-d14	70.2			58-132		%Rec	1	6/22/2016 10:40 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 1:40 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,2-Dibromo-3-chloropropane	2.0	UY Q	1.0	2.0	5.0	µg/L	1	6/28/2016 1:40 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 1:40 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 1:40 PM
Acetone	2.5	J	0.56	0.60	10	µg/L	1	6/28/2016 1:40 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606631-004 **Matrix:** Groundwater
Client Sample ID: WDS-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 1:40 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Ethylbenzene	1.5		0.43	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 1:40 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 1:40 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 1:40 PM
Xylene (total)	2.7	J	1.3	1.8	3.0	µg/L	1	6/28/2016 1:40 PM
Surr: 4-Bromofluorobenzene	96.5			85-114		%Rec	1	6/28/2016 1:40 PM
Surr: Dibromofluoromethane	85.3			80-119		%Rec	1	6/28/2016 1:40 PM
Surr: Toluene-d8	94.9			89-112		%Rec	1	6/28/2016 1:40 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 3:15:00 PM
Project: Camp Hero
Lab ID: 1606631-005 **Matrix:** Groundwater
Client Sample ID: WDS-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	6/29/2016 5:01 AM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	6/29/2016 5:01 AM
Aroclor 1232	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 5:01 AM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	6/29/2016 5:01 AM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	6/29/2016 5:01 AM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	6/29/2016 5:01 AM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	6/29/2016 5:01 AM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	6/29/2016 5:01 AM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	6/29/2016 5:01 AM
Surr: Tetrachloro-m-xylene	57.2			40-135		%Rec	1	6/29/2016 5:01 AM
Surr: Decachlorobiphenyl	63.7			40-135		%Rec	1	6/29/2016 5:01 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	6,800		14	25	500	µg/L	50	7/28/2016 5:50 PM
Arsenic	0.90	J	0.61	1.0	1.5	µg/L	5	7/28/2016 2:59 PM
Barium	57		0.18	0.50	25	µg/L	5	7/28/2016 2:59 PM
Beryllium	0.34	JG	0.25	0.50	1.0	µg/L	5	7/28/2016 2:59 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 2:59 PM
Calcium	34,000	X	90	120	1,000	µg/L	5	7/28/2016 2:59 PM
Chromium	11		0.30	0.50	10	µg/L	5	7/28/2016 2:59 PM
Cobalt	2.2	J	0.12	0.50	5.0	µg/L	5	7/28/2016 2:59 PM
Copper	3.3	JG	0.24	0.50	5.0	µg/L	5	7/28/2016 2:59 PM
Iron	11,000		48	120	200	µg/L	5	7/28/2016 2:59 PM
Lead	5.0		0.24	0.50	1.0	µg/L	5	7/28/2016 2:59 PM
Magnesium	7,000		41	120	500	µg/L	5	7/28/2016 2:59 PM
Manganese	280	G	0.26	0.50	5.0	µg/L	5	7/28/2016 2:59 PM
Nickel	6.0	J	0.20	0.50	10	µg/L	5	7/28/2016 2:59 PM
Potassium	2,100		110	120	500	µg/L	5	7/28/2016 2:59 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/28/2016 2:59 PM
Sodium	26,000	X	58	120	500	µg/L	5	7/28/2016 2:59 PM
Thallium	0.26	J	0.16	0.50	2.0	µg/L	5	7/28/2016 2:59 PM
Vanadium	11		0.49	0.50	4.0	µg/L	5	7/28/2016 2:59 PM
Zinc	17	J	1.8	2.5	50	µg/L	5	7/28/2016 2:59 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.40	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 2:55 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 2:55 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
1,2-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
1,3-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
1,4-Dichlorobenzene	0.47	U	0.20	0.47	4.7	µg/L	1	6/26/2016 4:47 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 3:15:00 PM
Project: Camp Hero
Lab ID: 1606631-005 **Matrix:** Groundwater
Client Sample ID: WDS-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.47	U	0.24	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2,4,6-Trichlorophenol	0.47	U	0.28	0.47	3.7	µg/L	1	6/26/2016 4:47 PM
2,4-Dichlorophenol	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2,4-Dimethyl phenol	0.93	U	0.52	0.93	4.7	µg/L	1	6/26/2016 4:47 PM
2,4-Dinitrophenol	9.3	UY	5.3	9.3	23	µg/L	1	6/26/2016 4:47 PM
2,4-Dinitrotoluene	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2,6-Dinitrotoluene	0.47	U	0.26	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2-Chloronaphthalene	0.93	U	0.65	0.93	4.7	µg/L	1	6/26/2016 4:47 PM
2-Chlorophenol	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2-Methylphenol (o-Cresol)	0.47	U	0.17	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2-Nitroaniline	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
2-Nitrophenol	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
3,3´-Dichlorobenzidine	9.3	U	5.2	9.3	19	µg/L	1	6/26/2016 4:47 PM
3-Nitroaniline	0.93	U	0.32	0.93	9.3	µg/L	1	6/26/2016 4:47 PM
3/4-Methylphenol [m/p-Cresol]	0.93	U	0.36	0.93	9.3	µg/L	1	6/26/2016 4:47 PM
4,6-Dinitro-2-methylphenol	2.3	U	1.5	2.3	9.3	µg/L	1	6/26/2016 4:47 PM
4-Bromophenyl phenyl ether	2.3	U	0.94	2.3	4.7	µg/L	1	6/26/2016 4:47 PM
4-Chloro-3-methylphenol	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
4-Chloroaniline [p-Chloroaniline]	0.47	U	0.32	0.47	9.3	µg/L	1	6/26/2016 4:47 PM
4-Chlorophenyl phenyl ether	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
4-Nitroaniline	0.47	U	0.19	0.47	9.3	µg/L	1	6/26/2016 4:47 PM
4-Nitrophenol	9.3	UQ	4.3	9.3	23	µg/L	1	6/26/2016 4:47 PM
Benzoic acid	11	JY QZ	3.5	9.3	23	µg/L	1	6/26/2016 4:47 PM
Benzyl alcohol	0.47	U	0.37	0.47	23	µg/L	1	6/26/2016 4:47 PM
Bis(2-chloroethoxy) methane	0.47	U	0.28	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Bis(2-chloroethyl) ether	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 4:47 PM
Bis(2-chloroisopropyl)ether	0.47	UZ	0.22	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Bis(2-ethylhexyl) phthalate	0.47	U	0.25	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Butyl benzyl phthalate	0.47	U	0.23	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Carbazole	0.47	U	0.090	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Di-n-butyl phthalate	0.47	U	0.19	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Di-n-octyl phthalate	0.47	U	0.18	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Dibenzofuran	0.31	J	0.18	0.47	3.7	µg/L	1	6/26/2016 4:47 PM
Diethyl phthalate	0.47	U	0.15	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Dimethyl phthalate	0.47	U	0.16	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Hexachlorobenzene	0.47	U	0.22	0.47	0.93	µg/L	1	6/26/2016 4:47 PM
Hexachlorobutadiene	0.47	U	0.29	0.47	0.93	µg/L	1	6/26/2016 4:47 PM
Hexachloroethane	0.47	U	0.22	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Isophorone	0.93	U	0.91	0.93	4.7	µg/L	1	6/26/2016 4:47 PM
N-Nitroso-di-n-propylamine	0.47	U	0.30	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
N-Nitrosodimethylamine	0.47	UQ	0.29	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
N-Nitrosodiphenylamine	0.47	UY	0.15	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Nitrobenzene	0.47	U	0.25	0.47	2.8	µg/L	1	6/26/2016 4:47 PM
Pentachlorophenol	2.3	UY	1.5	2.3	4.7	µg/L	1	6/26/2016 4:47 PM
Phenol	0.47	UQ	0.13	0.47	4.7	µg/L	1	6/26/2016 4:47 PM
Surr: 2,4,6-Tribromophenol	56.1			43-140		%Rec	1	6/26/2016 4:47 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 3:15:00 PM
Project: Camp Hero
Lab ID: 1606631-005 **Matrix:** Groundwater
Client Sample ID: WDS-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	39.6	Q		44-119		%Rec	1	6/26/2016 4:47 PM
Surr: 2-Fluorophenol	27.2	J		19-119		%Rec	1	6/26/2016 4:47 PM
Surr: Nitrobenzene-d5	40.2	Q		44-120		%Rec	1	6/26/2016 4:47 PM
Surr: Phenol-d5	18.2	JQ		30-130		%Rec	1	6/26/2016 4:47 PM
Surr: Terphenyl-d14	54.3			50-134		%Rec	1	6/26/2016 4:47 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
2-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Acenaphthene	2.9		0.093	0.093	0.093	µg/L	5	6/24/2016 10:41 PM
Acenaphthylene	0.026		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Anthracene	0.066		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Benz(a)anthracene	0.019		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Benzo(b)fluoranthene	0.030		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Fluoranthene	0.12		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Fluorene	0.059		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Naphthalene	0.045		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Phenanthrene	0.046		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Pyrene	0.075		0.019	0.019	0.019	µg/L	1	6/22/2016 11:08 PM
Surr: 2-Fluorobiphenyl	45.5	Q		53-106		%Rec	1	6/22/2016 11:08 PM
Surr: Nitrobenzene-d5	49.5	Q		55-111		%Rec	1	6/22/2016 11:08 PM
Surr: Terphenyl-d14	67.6			58-132		%Rec	1	6/22/2016 11:08 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 2:06 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,2-Dibromo-3-chloropropane	2.0	UY Q	1.0	2.0	5.0	µg/L	1	6/28/2016 2:06 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 2:06 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 2:06 PM
Acetone	2.2	J	0.56	0.60	10	µg/L	1	6/28/2016 2:06 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 3:15:00 PM
Project: Camp Hero
Lab ID: 1606631-005 **Matrix:** Groundwater
Client Sample ID: WDS-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 2:06 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 2:06 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 2:06 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 2:06 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 2:06 PM
Surr: 4-Bromofluorobenzene	95.5			85-114		%Rec	1	6/28/2016 2:06 PM
Surr: Dibromofluoromethane	85.9			80-119		%Rec	1	6/28/2016 2:06 PM
Surr: Toluene-d8	92.7			89-112		%Rec	1	6/28/2016 2:06 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/15/2016 8:00:00 AM
Project: Camp Hero
Lab ID: 1606631-006 **Matrix:** Water
Client Sample ID: TB-GW-061516-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 2:31 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	6/28/2016 2:31 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 2:31 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 2:31 PM
Acetone	3.2	J	0.56	0.60	10	µg/L	1	6/28/2016 2:31 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 2:31 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 2:31 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 2:31 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 2:31 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 2:31 PM
Surr: 4-Bromofluorobenzene	96.9			85-114		%Rec	1	6/28/2016 2:31 PM
Surr: Dibromofluoromethane	82.3			80-119		%Rec	1	6/28/2016 2:31 PM
Surr: Toluene-d8	91.7			89-112		%Rec	1	6/28/2016 2:31 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 8:00:00 AM
Project: Camp Hero
Lab ID: 1606631-007 **Matrix:** Water
Client Sample ID: TB-GW-061616-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 3:42 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/27/2016 3:42 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 3:42 AM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/27/2016 3:42 AM
Acetone	2.0	JY	0.56	0.60	10	µg/L	1	6/27/2016 3:42 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Bromodichloromethane	0.60	UQ	0.33	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Bromoform	0.60	UYQ	0.25	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 3:42 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Chloromethane	0.72	JBYQ	0.37	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Methylene chloride	0.59	J	0.27	0.60	5.0	µg/L	1	6/27/2016 3:42 AM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.55	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 3:42 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 3:42 AM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/27/2016 3:42 AM
Surr: 4-Bromofluorobenzene	91.9			85-114		%Rec	1	6/27/2016 3:42 AM
Surr: Dibromofluoromethane	82.4			80-119		%Rec	1	6/27/2016 3:42 AM
Surr: Toluene-d8	87.3	Q		89-112		%Rec	1	6/27/2016 3:42 AM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:45:00 AM
Project: Camp Hero
Lab ID: 1606631-008 **Matrix:** Groundwater
Client Sample ID: P113-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	34		0.24	0.50	1.0	µg/L	5	7/13/2016 2:23 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
2-Methylnaphthalene	0.023		0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Naphthalene	0.027		0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Phenanthrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/22/2016 11:35 PM
Surr: 2-Fluorobiphenyl	52.0	Q		53-106		%Rec	1	6/22/2016 11:35 PM
Surr: Nitrobenzene-d5	58.3			55-111		%Rec	1	6/22/2016 11:35 PM
Surr: Terphenyl-d14	64.7			58-132		%Rec	1	6/22/2016 11:35 PM
TCL for VOA Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 2:57 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	6/28/2016 2:57 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 2:57 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 2:57 PM
Acetone	3.2	J	0.56	0.60	10	µg/L	1	6/28/2016 2:57 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 2:57 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:45:00 AM
Project: Camp Hero
Lab ID: 1606631-008 **Matrix:** Groundwater
Client Sample ID: P113-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 2:57 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 2:57 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 2:57 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 2:57 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 2:57 PM
Surr: 4-Bromofluorobenzene	96.0			85-114		%Rec	1	6/28/2016 2:57 PM
Surr: Dibromofluoromethane	82.5			80-119		%Rec	1	6/28/2016 2:57 PM
Surr: Toluene-d8	91.5			89-112		%Rec	1	6/28/2016 2:57 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 1:10:00 PM
Project: Camp Hero
Lab ID: 1606631-009 **Matrix:** Groundwater
Client Sample ID: P113-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Metals, ICP/MS			**Method: 6020A-PB-STAR**		**SW3020A**			**Analyst: BK**
Lead	220		0.24	0.50	1.0	µg/L	5	7/13/2016 2:25 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
1,2-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
1,3-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
1,4-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2,4,5-Trichlorophenol	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2,4,6-Trichlorophenol	0.48	U	0.28	0.48	3.8	µg/L	1	6/26/2016 5:12 PM
2,4-Dichlorophenol	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2,4-Dimethyl phenol	0.95	U	0.53	0.95	4.8	µg/L	1	6/26/2016 5:12 PM
2,4-Dinitrophenol	9.5	UY	5.4	9.5	24	µg/L	1	6/26/2016 5:12 PM
2,4-Dinitrotoluene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2,6-Dinitrotoluene	0.48	U	0.27	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2-Chloronaphthalene	0.95	U	0.66	0.95	4.8	µg/L	1	6/26/2016 5:12 PM
2-Chlorophenol	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2-Methylphenol (o-Cresol)	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2-Nitroaniline	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
2-Nitrophenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
3,3´-Dichlorobenzidine	9.5	U	5.3	9.5	19	µg/L	1	6/26/2016 5:12 PM
3-Nitroaniline	0.95	U	0.33	0.95	9.5	µg/L	1	6/26/2016 5:12 PM
3/4-Methylphenol [m/p-Cresol]	0.95	U	0.37	0.95	9.5	µg/L	1	6/26/2016 5:12 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.5	µg/L	1	6/26/2016 5:12 PM
4-Bromophenyl phenyl ether	2.4	U	0.96	2.4	4.8	µg/L	1	6/26/2016 5:12 PM
4-Chloro-3-methylphenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
4-Chloroaniline [p-Chloroaniline]	0.48	U	0.33	0.48	9.5	µg/L	1	6/26/2016 5:12 PM
4-Chlorophenyl phenyl ether	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
4-Nitroaniline	0.48	U	0.19	0.48	9.5	µg/L	1	6/26/2016 5:12 PM
4-Nitrophenol	9.5	UQ	4.4	9.5	24	µg/L	1	6/26/2016 5:12 PM
Benzoic acid	12	JY QZ	3.5	9.5	24	µg/L	1	6/26/2016 5:12 PM
Benzyl alcohol	0.48	U	0.37	0.48	24	µg/L	1	6/26/2016 5:12 PM
Bis(2-chloroethoxy) methane	0.48	U	0.29	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Bis(2-chloroethyl) ether	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 5:12 PM
Bis(2-chloroisopropyl)ether	0.48	UZ	0.22	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Bis(2-ethylhexyl) phthalate	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Butyl benzyl phthalate	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Carbazole	0.48	U	0.091	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Di-n-butyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Di-n-octyl phthalate	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Dibenzofuran	0.48	U	0.18	0.48	3.8	µg/L	1	6/26/2016 5:12 PM
Diethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Dimethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Hexachlorobenzene	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 5:12 PM
Hexachlorobutadiene	0.48	U	0.30	0.48	0.95	µg/L	1	6/26/2016 5:12 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 1:10:00 PM
Project: Camp Hero
Lab ID: 1606631-009 **Matrix:** Groundwater
Client Sample ID: P113-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Hexachloroethane	0.48	U	0.22	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/26/2016 5:12 PM
N-Nitroso-di-n-propylamine	0.48	U	0.30	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
N-Nitrosodimethylamine	0.48	UQ	0.30	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
N-Nitrosodiphenylamine	0.48	UY	0.15	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Nitrobenzene	0.48	U	0.25	0.48	2.9	µg/L	1	6/26/2016 5:12 PM
Pentachlorophenol	2.4	UY	1.6	2.4	4.8	µg/L	1	6/26/2016 5:12 PM
Phenol	0.48	UQ	0.13	0.48	4.8	µg/L	1	6/26/2016 5:12 PM
Surr: 2,4,6-Tribromophenol	78.3			43-140		%Rec	1	6/26/2016 5:12 PM
Surr: 2-Fluorobiphenyl	57.6			44-119		%Rec	1	6/26/2016 5:12 PM
Surr: 2-Fluorophenol	38.3	J		19-119		%Rec	1	6/26/2016 5:12 PM
Surr: Nitrobenzene-d5	69.0			44-120		%Rec	1	6/26/2016 5:12 PM
Surr: Phenol-d5	26.8	JQ		30-130		%Rec	1	6/26/2016 5:12 PM
Surr: Terphenyl-d14	39.9	Q		50-134		%Rec	1	6/26/2016 5:12 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
1-Methylnaphthalene	0.050		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
2-Methylnaphthalene	0.056		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Acenaphthene	0.032		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Acenaphthylene	0.042		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Anthracene	0.039		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Benz(a)anthracene	0.28		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Benzo(a)pyrene	0.22		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Benzo(b)fluoranthene	0.44		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Benzo(g,h,i)perylene	0.13		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Benzo(k)fluoranthene	0.12		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Chrysene	0.20		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Dibenzo(a,h)anthracene	0.023		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Fluoranthene	0.42		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Fluorene	0.045		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Indeno(1,2,3-cd)pyrene	0.097		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Naphthalene	0.15		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Phenanthrene	0.31		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Pyrene	0.56		0.019	0.019	0.019	µg/L	1	6/23/2016 12:03 AM
Surr: 2-Fluorobiphenyl	47.5	Q		53-106		%Rec	1	6/23/2016 12:03 AM
Surr: Nitrobenzene-d5	85.6			55-111		%Rec	1	6/23/2016 12:03 AM
Surr: Terphenyl-d14	44.4	Q		58-132		%Rec	1	6/23/2016 12:03 AM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 3:35 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 3:35 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 1:10:00 PM
Project: Camp Hero
Lab ID: 1606631-009 **Matrix:** Groundwater
Client Sample ID: P113-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,2-Dibromo-3-chloropropane	2.0	UY Q	1.0	2.0	5.0	µg/L	1	6/28/2016 3:35 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 3:35 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 3:35 PM
Acetone	5.1	J	0.56	0.60	10	µg/L	1	6/28/2016 3:35 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 3:35 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 3:35 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 3:35 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 3:35 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 3:35 PM
Surr: 4-Bromofluorobenzene	95.4			85-114		%Rec	1	6/28/2016 3:35 PM
Surr: Dibromofluoromethane	82.8			80-119		%Rec	1	6/28/2016 3:35 PM
Surr: Toluene-d8	92.6			89-112		%Rec	1	6/28/2016 3:35 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606631-010 **Matrix:** Groundwater
Client Sample ID: WDS-SB08-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	6/29/2016 5:25 AM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	6/29/2016 5:25 AM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	6/29/2016 5:25 AM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	6/29/2016 5:25 AM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	6/29/2016 5:25 AM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	6/29/2016 5:25 AM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	6/29/2016 5:25 AM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	6/29/2016 5:25 AM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	6/29/2016 5:25 AM
Surr: Tetrachloro-m-xylene	50.2			40-135		%Rec	1	6/29/2016 5:25 AM
Surr: Decachlorobiphenyl	45.3			40-135		%Rec	1	6/29/2016 5:25 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	78,000		14	25	500	µg/L	50	7/28/2016 5:54 PM
Arsenic	11		0.61	1.0	1.5	µg/L	5	7/28/2016 3:21 PM
Barium	740		0.18	0.50	25	µg/L	5	7/28/2016 3:21 PM
Beryllium	4.6	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:21 PM
Cadmium	1.1		0.27	0.50	1.0	µg/L	5	7/28/2016 3:21 PM
Calcium	38,000		450	620	5,000	µg/L	25	7/28/2016 7:09 PM
Chromium	180		1.5	2.5	50	µg/L	25	7/28/2016 7:09 PM
Cobalt	40		0.60	2.5	25	µg/L	25	7/28/2016 7:09 PM
Copper	120	G	1.2	2.5	25	µg/L	25	7/28/2016 7:09 PM
Iron	83,000		480	1,200	2,000	µg/L	50	7/28/2016 5:54 PM
Lead	190		0.24	0.50	1.0	µg/L	5	7/28/2016 3:21 PM
Magnesium	13,000		200	620	2,500	µg/L	25	7/28/2016 7:09 PM
Manganese	2,100		1.3	2.5	25	µg/L	25	7/28/2016 7:09 PM
Nickel	80		1.0	2.5	50	µg/L	25	7/28/2016 7:09 PM
Potassium	10,000		530	620	2,500	µg/L	25	7/28/2016 7:09 PM
Selenium	2.5	J	1.5	2.5	5.0	µg/L	5	7/28/2016 3:21 PM
Sodium	10,000		290	620	2,500	µg/L	25	7/28/2016 7:09 PM
Thallium	0.96	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:21 PM
Vanadium	140		2.4	2.5	20	µg/L	25	7/28/2016 7:09 PM
Zinc	150		1.8	2.5	50	µg/L	5	7/28/2016 3:21 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.1	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 2:56 PM
Silver	0.38	J	0.24	0.50	1.5	µg/L	5	7/12/2016 2:56 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
1,2-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
1,3-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
1,4-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 5:36 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606631-010 **Matrix:** Groundwater
Client Sample ID: WDS-SB08-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2,4,6-Trichlorophenol	0.48	U	0.28	0.48	3.8	µg/L	1	6/26/2016 5:36 PM
2,4-Dichlorophenol	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2,4-Dimethyl phenol	0.95	U	0.53	0.95	4.8	µg/L	1	6/26/2016 5:36 PM
2,4-Dinitrophenol	9.5	UY	5.4	9.5	24	µg/L	1	6/26/2016 5:36 PM
2,4-Dinitrotoluene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2,6-Dinitrotoluene	0.48	U	0.27	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2-Chloronaphthalene	0.95	U	0.66	0.95	4.8	µg/L	1	6/26/2016 5:36 PM
2-Chlorophenol	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2-Methylphenol (o-Cresol)	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2-Nitroaniline	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
2-Nitrophenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
3,3´-Dichlorobenzidine	9.5	U	5.3	9.5	19	µg/L	1	6/26/2016 5:36 PM
3-Nitroaniline	0.95	U	0.33	0.95	9.5	µg/L	1	6/26/2016 5:36 PM
3/4-Methylphenol [m/p-Cresol]	0.95	U	0.37	0.95	9.5	µg/L	1	6/26/2016 5:36 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.5	µg/L	1	6/26/2016 5:36 PM
4-Bromophenyl phenyl ether	2.4	U	0.96	2.4	4.8	µg/L	1	6/26/2016 5:36 PM
4-Chloro-3-methylphenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
4-Chloroaniline [p-Chloroaniline]	0.48	U	0.33	0.48	9.5	µg/L	1	6/26/2016 5:36 PM
4-Chlorophenyl phenyl ether	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
4-Nitroaniline	0.48	U	0.19	0.48	9.5	µg/L	1	6/26/2016 5:36 PM
4-Nitrophenol	9.5	UQ	4.4	9.5	24	µg/L	1	6/26/2016 5:36 PM
Benzoic acid	9.5	UY QZ	3.5	9.5	24	µg/L	1	6/26/2016 5:36 PM
Benzyl alcohol	0.48	U	0.37	0.48	24	µg/L	1	6/26/2016 5:36 PM
Bis(2-chloroethoxy) methane	0.48	U	0.29	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Bis(2-chloroethyl) ether	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 5:36 PM
Bis(2-chloroisopropyl)ether	0.48	UZ	0.22	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Bis(2-ethylhexyl) phthalate	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Butyl benzyl phthalate	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Carbazole	0.48	U	0.091	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Di-n-butyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Di-n-octyl phthalate	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Dibenzofuran	0.48	U	0.18	0.48	3.8	µg/L	1	6/26/2016 5:36 PM
Diethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Dimethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Hexachlorobenzene	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 5:36 PM
Hexachlorobutadiene	0.48	U	0.30	0.48	0.95	µg/L	1	6/26/2016 5:36 PM
Hexachloroethane	0.48	U	0.22	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/26/2016 5:36 PM
N-Nitroso-di-n-propylamine	0.48	U	0.30	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
N-Nitrosodimethylamine	0.48	UQ	0.30	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
N-Nitrosodiphenylamine	0.48	UY	0.15	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Nitrobenzene	0.48	U	0.25	0.48	2.9	µg/L	1	6/26/2016 5:36 PM
Pentachlorophenol	2.4	UY	1.6	2.4	4.8	µg/L	1	6/26/2016 5:36 PM
Phenol	0.48	UQ	0.13	0.48	4.8	µg/L	1	6/26/2016 5:36 PM
Surr: 2,4,6-Tribromophenol	44.8			43-140		%Rec	1	6/26/2016 5:36 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606631-010 **Matrix:** Groundwater
Client Sample ID: WDS-SB08-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	32.2	Q		44-119		%Rec	1	6/26/2016 5:36 PM
Surr: 2-Fluorophenol	24.6	J		19-119		%Rec	1	6/26/2016 5:36 PM
Surr: Nitrobenzene-d5	32.7	Q		44-120		%Rec	1	6/26/2016 5:36 PM
Surr: Phenol-d5	15.4	JQ		30-130		%Rec	1	6/26/2016 5:36 PM
Surr: Terphenyl-d14	53.6			50-134		%Rec	1	6/26/2016 5:36 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
2-Methylnaphthalene	0.024		0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Fluoranthene	0.019		0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Naphthalene	0.022		0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Phenanthrene	0.031		0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Pyrene	0.021		0.019	0.019	0.019	µg/L	1	6/23/2016 12:31 AM
Surr: 2-Fluorobiphenyl	57.3			53-106		%Rec	1	6/23/2016 12:31 AM
Surr: Nitrobenzene-d5	56.2			55-111		%Rec	1	6/23/2016 12:31 AM
Surr: Terphenyl-d14	88.7			58-132		%Rec	1	6/23/2016 12:31 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 4:01 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,2-Dibromo-3-chloropropane	2.0	UY Q	1.0	2.0	5.0	µg/L	1	6/28/2016 4:01 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 4:01 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 4:01 PM
Acetone	7.6	J	0.56	0.60	10	µg/L	1	6/28/2016 4:01 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606631-010 **Matrix:** Groundwater
Client Sample ID: WDS-SB08-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 4:01 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 4:01 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 4:01 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 4:01 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 4:01 PM
Surr: 4-Bromofluorobenzene	95.8			85-114		%Rec	1	6/28/2016 4:01 PM
Surr: Dibromofluoromethane	83.4			80-119		%Rec	1	6/28/2016 4:01 PM
Surr: Toluene-d8	92.9			89-112		%Rec	1	6/28/2016 4:01 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 11:00:00 AM
Project: Camp Hero
Lab ID: 1606631-011 **Matrix:** Groundwater
Client Sample ID: WDS-SB15-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.039	U	0.031	0.039	0.098	µg/L	1	7/1/2016 7:09 PM
Aroclor 1221	0.039	U	0.029	0.039	0.098	µg/L	1	7/1/2016 7:09 PM
Aroclor 1232	0.040	U	0.040	0.040	0.20	µg/L	1	7/1/2016 7:09 PM
Aroclor 1242	0.039	U	0.036	0.039	0.20	µg/L	1	7/1/2016 7:09 PM
Aroclor 1248	0.039	U	0.030	0.039	0.098	µg/L	1	7/1/2016 7:09 PM
Aroclor 1254	0.039	U	0.039	0.039	0.20	µg/L	1	7/1/2016 7:09 PM
Aroclor 1260	0.039	U	0.034	0.039	0.20	µg/L	1	7/1/2016 7:09 PM
Aroclor 1262	0.098	U	0.050	0.098	0.20	µg/L	1	7/1/2016 7:09 PM
Aroclor 1268	0.039	U	0.027	0.039	0.098	µg/L	1	7/1/2016 7:09 PM
Surr: Tetrachloro-m-xylene	60.0			40-135		%Rec	1	7/1/2016 7:09 PM
Surr: Decachlorobiphenyl	55.2			40-135		%Rec	1	7/1/2016 7:09 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	32,000		14	25	500	µg/L	50	7/28/2016 5:55 PM
Arsenic	3.3		0.61	1.0	1.5	µg/L	5	7/28/2016 3:23 PM
Barium	250		0.18	0.50	25	µg/L	5	7/28/2016 3:23 PM
Beryllium	1.5	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:23 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 3:23 PM
Calcium	4,000		90	120	1,000	µg/L	5	7/28/2016 3:23 PM
Chromium	49		0.30	0.50	10	µg/L	5	7/28/2016 3:23 PM
Cobalt	9.5		0.12	0.50	5.0	µg/L	5	7/28/2016 3:23 PM
Copper	27	G	0.24	0.50	5.0	µg/L	5	7/28/2016 3:23 PM
Iron	28,000		48	120	200	µg/L	5	7/28/2016 3:23 PM
Lead	15		0.24	0.50	1.0	µg/L	5	7/28/2016 3:23 PM
Magnesium	9,100		41	120	500	µg/L	5	7/28/2016 3:23 PM
Manganese	460	G	0.26	0.50	5.0	µg/L	5	7/28/2016 3:23 PM
Nickel	23		0.20	0.50	10	µg/L	5	7/28/2016 3:23 PM
Potassium	6,200		110	120	500	µg/L	5	7/28/2016 3:23 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/28/2016 3:23 PM
Sodium	19,000		58	120	500	µg/L	5	7/28/2016 3:23 PM
Thallium	0.48	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:23 PM
Vanadium	46		0.49	0.50	4.0	µg/L	5	7/28/2016 3:23 PM
Zinc	68		1.8	2.5	50	µg/L	5	7/28/2016 3:23 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.30	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 2:57 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 2:57 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.50	U	0.25	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
1,2-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
1,3-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
1,4-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/26/2016 6:01 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 11:00:00 AM
Project: Camp Hero
Lab ID: 1606631-011 **Matrix:** Groundwater
Client Sample ID: WDS-SB15-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.50	U	0.26	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2,4,6-Trichlorophenol	0.50	U	0.29	0.50	4.0	µg/L	1	6/26/2016 6:01 PM
2,4-Dichlorophenol	0.50	U	0.20	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2,4-Dimethyl phenol	0.99	U	0.55	0.99	5.0	µg/L	1	6/26/2016 6:01 PM
2,4-Dinitrophenol	9.9	UY	5.6	9.9	25	µg/L	1	6/26/2016 6:01 PM
2,4-Dinitrotoluene	0.50	U	0.25	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2,6-Dinitrotoluene	0.50	U	0.28	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2-Chloronaphthalene	0.99	U	0.69	0.99	5.0	µg/L	1	6/26/2016 6:01 PM
2-Chlorophenol	0.50	U	0.19	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2-Methylphenol (o-Cresol)	0.50	U	0.18	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2-Nitroaniline	0.50	U	0.24	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
2-Nitrophenol	0.50	U	0.24	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
3,3´-Dichlorobenzidine	9.9	U	5.5	9.9	20	µg/L	1	6/26/2016 6:01 PM
3-Nitroaniline	0.99	U	0.34	0.99	9.9	µg/L	1	6/26/2016 6:01 PM
3/4-Methylphenol [m/p-Cresol]	0.99	U	0.38	0.99	9.9	µg/L	1	6/26/2016 6:01 PM
4,6-Dinitro-2-methylphenol	2.5	U	1.6	2.5	9.9	µg/L	1	6/26/2016 6:01 PM
4-Bromophenyl phenyl ether	2.5	U	1.0	2.5	5.0	µg/L	1	6/26/2016 6:01 PM
4-Chloro-3-methylphenol	0.50	U	0.24	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
4-Chloroaniline [p-Chloroaniline]	0.50	U	0.34	0.50	9.9	µg/L	1	6/26/2016 6:01 PM
4-Chlorophenyl phenyl ether	0.50	U	0.17	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
4-Nitroaniline	0.50	U	0.20	0.50	9.9	µg/L	1	6/26/2016 6:01 PM
4-Nitrophenol	9.9	UQ	4.5	9.9	25	µg/L	1	6/26/2016 6:01 PM
Benzoic acid	9.9	UY QZ	3.7	9.9	25	µg/L	1	6/26/2016 6:01 PM
Benzyl alcohol	0.50	U	0.39	0.50	25	µg/L	1	6/26/2016 6:01 PM
Bis(2-chloroethoxy) methane	0.50	U	0.30	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Bis(2-chloroethyl) ether	0.50	U	0.23	0.50	0.99	µg/L	1	6/26/2016 6:01 PM
Bis(2-chloroisopropyl)ether	0.50	UZ	0.23	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Bis(2-ethylhexyl) phthalate	0.50	U	0.26	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Butyl benzyl phthalate	0.50	U	0.24	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Carbazole	0.50	U	0.095	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Di-n-butyl phthalate	0.50	U	0.20	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Di-n-octyl phthalate	0.50	U	0.19	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Dibenzofuran	0.50	U	0.19	0.50	4.0	µg/L	1	6/26/2016 6:01 PM
Diethyl phthalate	0.50	U	0.16	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Dimethyl phthalate	0.50	U	0.17	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Hexachlorobenzene	0.50	U	0.23	0.50	0.99	µg/L	1	6/26/2016 6:01 PM
Hexachlorobutadiene	0.50	U	0.31	0.50	0.99	µg/L	1	6/26/2016 6:01 PM
Hexachloroethane	0.50	U	0.23	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Isophorone	0.99	U	0.96	0.99	5.0	µg/L	1	6/26/2016 6:01 PM
N-Nitroso-di-n-propylamine	0.50	U	0.31	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
N-Nitrosodimethylamine	0.50	UQ	0.31	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
N-Nitrosodiphenylamine	0.50	UY	0.16	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Nitrobenzene	0.50	U	0.26	0.50	3.0	µg/L	1	6/26/2016 6:01 PM
Pentachlorophenol	2.5	UY	1.6	2.5	5.0	µg/L	1	6/26/2016 6:01 PM
Phenol	0.50	UQ	0.14	0.50	5.0	µg/L	1	6/26/2016 6:01 PM
Surr: 2,4,6-Tribromophenol	69.3			43-140		%Rec	1	6/26/2016 6:01 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 11:00:00 AM
Project: Camp Hero
Lab ID: 1606631-011 **Matrix:** Groundwater
Client Sample ID: WDS-SB15-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	46.3			44-119		%Rec	1	6/26/2016 6:01 PM
Surr: 2-Fluorophenol	26.3	J		19-119		%Rec	1	6/26/2016 6:01 PM
Surr: Nitrobenzene-d5	48.7			44-120		%Rec	1	6/26/2016 6:01 PM
Surr: Phenol-d5	17.5	JQ		30-130		%Rec	1	6/26/2016 6:01 PM
Surr: Terphenyl-d14	63.5			50-134		%Rec	1	6/26/2016 6:01 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
2-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Acenaphthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Benzo(b)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Fluorene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Naphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Phenanthrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 12:59 AM
Surr: 2-Fluorobiphenyl	52.6	Q		53-106		%Rec	1	6/23/2016 12:59 AM
Surr: Nitrobenzene-d5	52.5	Q		55-111		%Rec	1	6/23/2016 12:59 AM
Surr: Terphenyl-d14	88.3			58-132		%Rec	1	6/23/2016 12:59 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 4:26 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,2-Dibromo-3-chloropropane	2.0	UY Q	1.0	2.0	5.0	µg/L	1	6/28/2016 4:26 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 4:26 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 4:26 PM
Acetone	4.4	J	0.56	0.60	10	µg/L	1	6/28/2016 4:26 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 11:00:00 AM
Project:	Camp Hero		
Lab ID:	1606631-011	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB15-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 4:26 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 4:26 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 4:26 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 4:26 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 4:26 PM
Surr: 4-Bromofluorobenzene	94.5			85-114		%Rec	1	6/28/2016 4:26 PM
Surr: Dibromofluoromethane	81.2			80-119		%Rec	1	6/28/2016 4:26 PM
Surr: Toluene-d8	93.4			89-112		%Rec	1	6/28/2016 4:26 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606631-012	**Matrix:**	Water
Client Sample ID:	TB-GW-061716-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 4:07 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/27/2016 4:07 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 4:07 AM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/27/2016 4:07 AM
Acetone	3.4	JY	0.56	0.60	10	µg/L	1	6/27/2016 4:07 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Bromodichloromethane	0.60	UQ	0.33	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Bromoform	0.60	UYQ	0.25	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 4:07 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Chloromethane	0.73	JBYQ	0.37	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Methylene chloride	0.41	J	0.27	0.60	5.0	µg/L	1	6/27/2016 4:07 AM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.55	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 4:07 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 4:07 AM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/27/2016 4:07 AM
Surr: 4-Bromofluorobenzene	92.2			85-114		%Rec	1	6/27/2016 4:07 AM
Surr: Dibromofluoromethane	82.9			80-119		%Rec	1	6/27/2016 4:07 AM
Surr: Toluene-d8	86.6	Q		89-112		%Rec	1	6/27/2016 4:07 AM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 8:10:00 AM
Project:	Camp Hero		
Lab ID:	1606631-013	**Matrix:**	Water
Client Sample ID:	TB-GW-061616-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	UQ	0.43	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/27/2016 4:32 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,2-Dibromo-3-chloropropane	2.0	U	1.0	2.0	5.0	µg/L	1	6/27/2016 4:32 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/27/2016 4:32 AM
2-Hexanone	1.0	UY	0.64	1.0	2.0	µg/L	1	6/27/2016 4:32 AM
Acetone	4.5	JY	0.56	0.60	10	µg/L	1	6/27/2016 4:32 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Bromodichloromethane	0.60	UQ	0.33	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Bromoform	0.60	UYQ	0.25	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/27/2016 4:32 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Chloromethane	0.72	JBYQ	0.37	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
cis-1,3-Dichloropropene	0.60	UQ	0.26	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Methylene chloride	0.47	J	0.27	0.60	5.0	µg/L	1	6/27/2016 4:32 AM
Styrene	0.60	UQ	0.30	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.55	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/27/2016 4:32 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/27/2016 4:32 AM
Xylene (total)	1.8	UQ	1.3	1.8	3.0	µg/L	1	6/27/2016 4:32 AM
Surr: 4-Bromofluorobenzene	93.0			85-114		%Rec	1	6/27/2016 4:32 AM
Surr: Dibromofluoromethane	80.7			80-119		%Rec	1	6/27/2016 4:32 AM
Surr: Toluene-d8	87.4	Q		89-112		%Rec	1	6/27/2016 4:32 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606631-014	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB12-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: MB**
Aroclor 1016	0.039	U	0.031	0.039	0.097	µg/L	1	6/29/2016 6:14 AM
Aroclor 1221	0.039	U	0.029	0.039	0.097	µg/L	1	6/29/2016 6:14 AM
Aroclor 1232	0.040	U	0.040	0.040	0.19	µg/L	1	6/29/2016 6:14 AM
Aroclor 1242	0.039	U	0.036	0.039	0.19	µg/L	1	6/29/2016 6:14 AM
Aroclor 1248	0.039	U	0.030	0.039	0.097	µg/L	1	6/29/2016 6:14 AM
Aroclor 1254	0.039	U	0.039	0.039	0.19	µg/L	1	6/29/2016 6:14 AM
Aroclor 1260	0.039	U	0.034	0.039	0.19	µg/L	1	6/29/2016 6:14 AM
Aroclor 1262	0.097	U	0.050	0.097	0.19	µg/L	1	6/29/2016 6:14 AM
Aroclor 1268	0.039	U	0.027	0.039	0.097	µg/L	1	6/29/2016 6:14 AM
Surr: Tetrachloro-m-xylene	64.0			40-135		%Rec	1	6/29/2016 6:14 AM
Surr: Decachlorobiphenyl	58.5			40-135		%Rec	1	6/29/2016 6:14 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	30,000		14	25	500	µg/L	50	7/28/2016 5:56 PM
Arsenic	10		0.61	1.0	1.5	µg/L	5	7/28/2016 3:25 PM
Barium	140		0.18	0.50	25	µg/L	5	7/28/2016 3:25 PM
Beryllium	1.4	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:25 PM
Cadmium	0.32	J	0.27	0.50	1.0	µg/L	5	7/28/2016 3:25 PM
Calcium	6,800		90	120	1,000	µg/L	5	7/28/2016 3:25 PM
Chromium	50		0.30	0.50	10	µg/L	5	7/28/2016 3:25 PM
Cobalt	18		0.12	0.50	5.0	µg/L	5	7/28/2016 3:25 PM
Copper	26	G	0.24	0.50	5.0	µg/L	5	7/28/2016 3:25 PM
Iron	40,000		48	120	200	µg/L	5	7/28/2016 3:25 PM
Lead	21		0.24	0.50	1.0	µg/L	5	7/28/2016 3:25 PM
Magnesium	7,400		41	120	500	µg/L	5	7/28/2016 3:25 PM
Manganese	1,200	G	0.26	0.50	5.0	µg/L	5	7/28/2016 3:25 PM
Nickel	27		0.20	0.50	10	µg/L	5	7/28/2016 3:25 PM
Potassium	5,300		110	120	500	µg/L	5	7/28/2016 3:25 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/28/2016 3:25 PM
Sodium	13,000		58	120	500	µg/L	5	7/28/2016 3:25 PM
Thallium	0.38	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:25 PM
Vanadium	46		0.49	0.50	4.0	µg/L	5	7/28/2016 3:25 PM
Zinc	69		1.8	2.5	50	µg/L	5	7/28/2016 3:25 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.34	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 2:58 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 2:58 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.49	U	0.25	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
1,2-Dichlorobenzene	0.49	U	0.21	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
1,3-Dichlorobenzene	0.49	U	0.21	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
1,4-Dichlorobenzene	0.49	U	0.21	0.49	4.9	µg/L	1	6/26/2016 6:26 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606631-014 **Matrix:** Groundwater
Client Sample ID: WDS-SB12-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.49	U	0.26	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2,4,6-Trichlorophenol	0.49	U	0.29	0.49	3.9	µg/L	1	6/26/2016 6:26 PM
2,4-Dichlorophenol	0.49	U	0.19	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2,4-Dimethyl phenol	0.98	U	0.54	0.98	4.9	µg/L	1	6/26/2016 6:26 PM
2,4-Dinitrophenol	9.8	UY	5.6	9.8	25	µg/L	1	6/26/2016 6:26 PM
2,4-Dinitrotoluene	0.49	U	0.25	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2,6-Dinitrotoluene	0.49	U	0.28	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2-Chloronaphthalene	0.98	U	0.68	0.98	4.9	µg/L	1	6/26/2016 6:26 PM
2-Chlorophenol	0.49	U	0.19	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2-Methylphenol (o-Cresol)	0.49	U	0.18	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2-Nitroaniline	0.49	U	0.24	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
2-Nitrophenol	0.49	U	0.24	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
3,3´-Dichlorobenzidine	9.8	U	5.4	9.8	20	µg/L	1	6/26/2016 6:26 PM
3-Nitroaniline	0.98	U	0.34	0.98	9.8	µg/L	1	6/26/2016 6:26 PM
3/4-Methylphenol [m/p-Cresol]	0.98	U	0.38	0.98	9.8	µg/L	1	6/26/2016 6:26 PM
4,6-Dinitro-2-methylphenol	2.5	U	1.5	2.5	9.8	µg/L	1	6/26/2016 6:26 PM
4-Bromophenyl phenyl ether	2.5	U	0.99	2.5	4.9	µg/L	1	6/26/2016 6:26 PM
4-Chloro-3-methylphenol	0.49	U	0.24	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
4-Chloroaniline [p-Chloroaniline]	0.49	U	0.34	0.49	9.8	µg/L	1	6/26/2016 6:26 PM
4-Chlorophenyl phenyl ether	0.49	U	0.17	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
4-Nitroaniline	0.49	U	0.19	0.49	9.8	µg/L	1	6/26/2016 6:26 PM
4-Nitrophenol	9.8	UQ	4.5	9.8	25	µg/L	1	6/26/2016 6:26 PM
Benzoic acid	9.8	UY QZ	3.6	9.8	25	µg/L	1	6/26/2016 6:26 PM
Benzyl alcohol	0.49	U	0.38	0.49	25	µg/L	1	6/26/2016 6:26 PM
Bis(2-chloroethoxy) methane	0.49	U	0.30	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Bis(2-chloroethyl) ether	0.49	U	0.23	0.49	0.98	µg/L	1	6/26/2016 6:26 PM
Bis(2-chloroisopropyl)ether	0.49	UZ	0.23	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Bis(2-ethylhexyl) phthalate	0.49	U	0.26	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Butyl benzyl phthalate	0.49	U	0.24	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Carbazole	0.49	U	0.094	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Di-n-butyl phthalate	0.49	U	0.20	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Di-n-octyl phthalate	0.49	U	0.19	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Dibenzofuran	0.49	U	0.19	0.49	3.9	µg/L	1	6/26/2016 6:26 PM
Diethyl phthalate	0.49	U	0.16	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Dimethyl phthalate	0.49	U	0.17	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Hexachlorobenzene	0.49	U	0.23	0.49	0.98	µg/L	1	6/26/2016 6:26 PM
Hexachlorobutadiene	0.49	U	0.31	0.49	0.98	µg/L	1	6/26/2016 6:26 PM
Hexachloroethane	0.49	U	0.23	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Isophorone	0.98	U	0.95	0.98	4.9	µg/L	1	6/26/2016 6:26 PM
N-Nitroso-di-n-propylamine	0.49	U	0.31	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
N-Nitrosodimethylamine	0.49	UQ	0.31	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
N-Nitrosodiphenylamine	0.49	UY	0.15	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Nitrobenzene	0.49	U	0.26	0.49	2.9	µg/L	1	6/26/2016 6:26 PM
Pentachlorophenol	2.5	UY	1.6	2.5	4.9	µg/L	1	6/26/2016 6:26 PM
Phenol	0.49	UQ	0.14	0.49	4.9	µg/L	1	6/26/2016 6:26 PM
Surr: 2,4,6-Tribromophenol	77.4			43-140		%Rec	1	6/26/2016 6:26 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606631-014 **Matrix:** Groundwater
Client Sample ID: WDS-SB12-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	51.2			44-119		%Rec	1	6/26/2016 6:26 PM
Surr: 2-Fluorophenol	30.3	J		19-119		%Rec	1	6/26/2016 6:26 PM
Surr: Nitrobenzene-d5	50.0			44-120		%Rec	1	6/26/2016 6:26 PM
Surr: Phenol-d5	19.0	JQ		30-130		%Rec	1	6/26/2016 6:26 PM
Surr: Terphenyl-d14	74.0			50-134		%Rec	1	6/26/2016 6:26 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
2-Methylnaphthalene	0.023		0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Acenaphthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Benzo(b)fluoranthene	0.023		0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Fluoranthene	0.024		0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Fluorene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Naphthalene	0.020	U	0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Phenanthrene	0.028		0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Pyrene	0.021		0.020	0.020	0.020	µg/L	1	6/23/2016 1:27 AM
Surr: 2-Fluorobiphenyl	67.5			53-106		%Rec	1	6/23/2016 1:27 AM
Surr: Nitrobenzene-d5	67.6			55-111		%Rec	1	6/23/2016 1:27 AM
Surr: Terphenyl-d14	94.2			58-132		%Rec	1	6/23/2016 1:27 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 5:07 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	6/28/2016 5:07 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 5:07 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 5:07 PM
Acetone	16		0.56	0.60	10	µg/L	1	6/28/2016 5:07 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606631-014 **Matrix:** Groundwater
Client Sample ID: WDS-SB12-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 5:07 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 5:07 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 5:07 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 5:07 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 5:07 PM
Surr: 4-Bromofluorobenzene	96.7			85-114		%Rec	1	6/28/2016 5:07 PM
Surr: Dibromofluoromethane	82.6			80-119		%Rec	1	6/28/2016 5:07 PM
Surr: Toluene-d8	91.4			89-112		%Rec	1	6/28/2016 5:07 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 12:05:00 PM
Project:	Camp Hero		
Lab ID:	1606631-015	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB13-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	7/6/2016 6:39 PM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	7/6/2016 6:39 PM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	7/6/2016 6:39 PM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	7/6/2016 6:39 PM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	7/6/2016 6:39 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	7/6/2016 6:39 PM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	7/6/2016 6:39 PM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	7/6/2016 6:39 PM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	7/6/2016 6:39 PM
Surr: Tetrachloro-m-xylene	86.8			40-135		%Rec	1	7/6/2016 6:39 PM
Surr: Decachlorobiphenyl	44.8			40-135		%Rec	1	7/6/2016 6:39 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	4,700		1.4	2.5	50	µg/L	5	7/28/2016 3:28 PM
Arsenic	1.0	U	0.61	1.0	1.5	µg/L	5	7/28/2016 3:28 PM
Barium	65		0.18	0.50	25	µg/L	5	7/28/2016 3:28 PM
Beryllium	0.37	JG	0.25	0.50	1.0	µg/L	5	7/28/2016 3:28 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 3:28 PM
Calcium	6,900		90	120	1,000	µg/L	5	7/28/2016 3:28 PM
Chromium	7.3	J	0.30	0.50	10	µg/L	5	7/28/2016 3:28 PM
Cobalt	2.3	J	0.12	0.50	5.0	µg/L	5	7/28/2016 3:28 PM
Copper	4.5	JG	0.24	0.50	5.0	µg/L	5	7/28/2016 3:28 PM
Iron	4,600		48	120	200	µg/L	5	7/28/2016 3:28 PM
Lead	9.3		0.24	0.50	1.0	µg/L	5	7/28/2016 3:28 PM
Magnesium	6,000		41	120	500	µg/L	5	7/28/2016 3:28 PM
Manganese	96	G	0.26	0.50	5.0	µg/L	5	7/28/2016 3:28 PM
Nickel	4.6	J	0.20	0.50	10	µg/L	5	7/28/2016 3:28 PM
Potassium	2,200		110	120	500	µg/L	5	7/28/2016 3:28 PM
Selenium	1.5	J	1.5	2.5	5.0	µg/L	5	7/28/2016 3:28 PM
Sodium	55,000		580	1,200	5,000	µg/L	50	7/28/2016 5:57 PM
Thallium	0.50	U	0.16	0.50	2.0	µg/L	5	7/28/2016 3:28 PM
Vanadium	9.8		0.49	0.50	4.0	µg/L	5	7/28/2016 3:28 PM
Zinc	11	J	1.8	2.5	50	µg/L	5	7/28/2016 3:28 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.75	UG	0.19	0.75	2.5	µg/L	5	7/12/2016 2:58 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 2:58 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
1,2-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
1,3-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
1,4-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/26/2016 6:51 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 12:05:00 PM
Project: Camp Hero
Lab ID: 1606631-015 **Matrix:** Groundwater
Client Sample ID: WDS-SB13-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2,4,6-Trichlorophenol	0.48	U	0.28	0.48	3.8	µg/L	1	6/26/2016 6:51 PM
2,4-Dichlorophenol	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2,4-Dimethyl phenol	0.95	U	0.53	0.95	4.8	µg/L	1	6/26/2016 6:51 PM
2,4-Dinitrophenol	9.5	UY	5.4	9.5	24	µg/L	1	6/26/2016 6:51 PM
2,4-Dinitrotoluene	0.48	U	0.24	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2,6-Dinitrotoluene	0.48	U	0.27	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2-Chloronaphthalene	0.95	U	0.66	0.95	4.8	µg/L	1	6/26/2016 6:51 PM
2-Chlorophenol	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2-Methylphenol (o-Cresol)	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2-Nitroaniline	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
2-Nitrophenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
3,3´-Dichlorobenzidine	9.5	U	5.3	9.5	19	µg/L	1	6/26/2016 6:51 PM
3-Nitroaniline	0.95	U	0.33	0.95	9.5	µg/L	1	6/26/2016 6:51 PM
3/4-Methylphenol [m/p-Cresol]	0.95	U	0.37	0.95	9.5	µg/L	1	6/26/2016 6:51 PM
4,6-Dinitro-2-methylphenol	2.4	U	1.5	2.4	9.5	µg/L	1	6/26/2016 6:51 PM
4-Bromophenyl phenyl ether	2.4	U	0.96	2.4	4.8	µg/L	1	6/26/2016 6:51 PM
4-Chloro-3-methylphenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
4-Chloroaniline [p-Chloroaniline]	0.48	U	0.33	0.48	9.5	µg/L	1	6/26/2016 6:51 PM
4-Chlorophenyl phenyl ether	0.48	U	0.17	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
4-Nitroaniline	0.48	U	0.19	0.48	9.5	µg/L	1	6/26/2016 6:51 PM
4-Nitrophenol	9.5	UQ	4.4	9.5	24	µg/L	1	6/26/2016 6:51 PM
Benzoic acid	9.5	UY QZ	3.5	9.5	24	µg/L	1	6/26/2016 6:51 PM
Benzyl alcohol	0.48	U	0.37	0.48	24	µg/L	1	6/26/2016 6:51 PM
Bis(2-chloroethoxy) methane	0.48	U	0.29	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Bis(2-chloroethyl) ether	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 6:51 PM
Bis(2-chloroisopropyl)ether	0.48	UZ	0.22	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Bis(2-ethylhexyl) phthalate	0.48	U	0.25	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Butyl benzyl phthalate	0.48	U	0.23	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Carbazole	0.48	U	0.091	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Di-n-butyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Di-n-octyl phthalate	0.48	U	0.18	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Dibenzofuran	0.48	U	0.18	0.48	3.8	µg/L	1	6/26/2016 6:51 PM
Diethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Dimethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Hexachlorobenzene	0.48	U	0.22	0.48	0.95	µg/L	1	6/26/2016 6:51 PM
Hexachlorobutadiene	0.48	U	0.30	0.48	0.95	µg/L	1	6/26/2016 6:51 PM
Hexachloroethane	0.48	U	0.22	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/26/2016 6:51 PM
N-Nitroso-di-n-propylamine	0.48	U	0.30	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
N-Nitrosodimethylamine	0.48	UQ	0.30	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
N-Nitrosodiphenylamine	0.48	UY	0.15	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Nitrobenzene	0.48	U	0.25	0.48	2.9	µg/L	1	6/26/2016 6:51 PM
Pentachlorophenol	2.4	UY	1.6	2.4	4.8	µg/L	1	6/26/2016 6:51 PM
Phenol	0.48	UQ	0.13	0.48	4.8	µg/L	1	6/26/2016 6:51 PM
Surr: 2,4,6-Tribromophenol	77.6			43-140		%Rec	1	6/26/2016 6:51 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 12:05:00 PM
Project: Camp Hero
Lab ID: 1606631-015 **Matrix:** Groundwater
Client Sample ID: WDS-SB13-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	57.6			44-119		%Rec	1	6/26/2016 6:51 PM
Surr: 2-Fluorophenol	36.7	J		19-119		%Rec	1	6/26/2016 6:51 PM
Surr: Nitrobenzene-d5	58.4			44-120		%Rec	1	6/26/2016 6:51 PM
Surr: Phenol-d5	23.2	JQ		30-130		%Rec	1	6/26/2016 6:51 PM
Surr: Terphenyl-d14	78.5			50-134		%Rec	1	6/26/2016 6:51 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.032		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
2-Methylnaphthalene	0.035		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Acenaphthene	0.057		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Acenaphthylene	0.022		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Anthracene	0.14		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Benz(a)anthracene	0.95		0.093	0.093	0.093	µg/L	5	6/24/2016 11:08 PM
Benzo(a)pyrene	0.69		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Benzo(b)fluoranthene	1.2		0.093	0.093	0.093	µg/L	5	6/24/2016 11:08 PM
Benzo(g,h,i)perylene	0.37		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Benzo(k)fluoranthene	0.30		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Chrysene	0.61		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Dibenzo(a,h)anthracene	0.13		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Fluoranthene	1.9		0.093	0.093	0.093	µg/L	5	6/24/2016 11:08 PM
Fluorene	0.071		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Indeno(1,2,3-cd)pyrene	0.37		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Naphthalene	0.052		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Phenanthrene	0.76		0.019	0.019	0.019	µg/L	1	6/23/2016 1:54 AM
Pyrene	1.4		0.093	0.093	0.093	µg/L	5	6/24/2016 11:08 PM
Surr: 2-Fluorobiphenyl	59.6			53-106		%Rec	1	6/23/2016 1:54 AM
Surr: Nitrobenzene-d5	68.4			55-111		%Rec	1	6/23/2016 1:54 AM
Surr: Terphenyl-d14	66.7			58-132		%Rec	1	6/23/2016 1:54 AM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/28/2016 5:33 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	6/28/2016 5:33 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/28/2016 5:33 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/28/2016 5:33 PM
Acetone	1.8	J	0.56	0.60	10	µg/L	1	6/28/2016 5:33 PM

RTI Laboratories - Analytical Report

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 12:05:00 PM
Project: Camp Hero
Lab ID: 1606631-015 **Matrix:** Groundwater
Client Sample ID: WDS-SB13-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Bromoform	0.60	UQ	0.25	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Chlorobenzene	0.60	UQ	0.47	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/28/2016 5:33 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/28/2016 5:33 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/28/2016 5:33 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/28/2016 5:33 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/28/2016 5:33 PM
Surr: 4-Bromofluorobenzene	96.0			85-114		%Rec	1	6/28/2016 5:33 PM
Surr: Dibromofluoromethane	81.0			80-119		%Rec	1	6/28/2016 5:33 PM
Surr: Toluene-d8	91.6			89-112		%Rec	1	6/28/2016 5:33 PM

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WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606631-001A	WDS-SB10-GW	6/15/2016 3:45 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 8:17 AM	6/27/2016 8:17 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 12:22 PM	6/28/2016 12:22 PM
1606631-001B	WDS-SB10-GW	6/15/2016 3:45 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 9:18 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 3:07 PM
1606631-001C	WDS-SB10-GW	6/15/2016 3:45 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 3:48 AM
1606631-001D	WDS-SB10-GW	6/15/2016 3:45 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:15 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:51 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 7:07 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:53 PM
1606631-002A	P113-SB02-GW	6/16/2016 12:20 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 8:42 AM	6/27/2016 8:42 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 12:48 PM	6/28/2016 12:48 PM
1606631-002B	P113-SB02-GW	6/16/2016 12:20 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 9:45 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 3:32 PM
1606631-002C	P113-SB02-GW	6/16/2016 12:20 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:05 PM
1606631-003A	WDS-SB01-GW	6/16/2016 2:20 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 9:07 AM	6/27/2016 9:07 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 1:14 PM	6/28/2016 1:14 PM
1606631-003B	WDS-SB01-GW	6/16/2016 2:20 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 10:12 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 9:15 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	8/4/2016 6:29 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	8/5/2016 2:52 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 3:57 PM
1606631-003C	WDS-SB01-GW	6/16/2016 2:20 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 4:12 AM

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WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606631-003D	WDS-SB01-GW	6/16/2016 2:20 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:17 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:52 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:54 PM
1606631-004A	WDS-SB02-GW	6/16/2016 2:45 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 9:42 AM	6/27/2016 9:42 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 1:40 PM	6/28/2016 1:40 PM
1606631-004B	WDS-SB02-GW	6/16/2016 2:45 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 10:40 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 9:43 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 10:12 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/28/2016 4:10 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/28/2016 4:38 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 4:22 PM
1606631-004C	WDS-SB02-GW	6/16/2016 2:45 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 4:36 AM
1606631-004D	WDS-SB02-GW	6/16/2016 2:45 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:19 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:53 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:55 PM
1606631-005A	WDS-SB03-GW	6/16/2016 3:15 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/27/2016 10:06 AM	6/27/2016 10:06 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 2:06 PM	6/28/2016 2:06 PM
1606631-005B	WDS-SB03-GW	6/16/2016 3:15 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 11:08 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 10:41 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 4:47 PM
1606631-005C	WDS-SB03-GW	6/16/2016 3:15 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 5:01 AM
1606631-005D	WDS-SB03-GW	6/16/2016 3:15 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 2:59 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:50 PM

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WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606631-005D	WDS-SB03-GW	6/16/2016 3:15 PM	Groundwater				
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:55 PM
1606631-006A	TB-GW-061516-01	6/15/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/27/2016 10:32 AM	6/27/2016 10:32 AM
				SW_8260A-Volatile Organic Compounds		6/28/2016 2:31 PM	6/28/2016 2:31 PM
1606631-007A	TB-GW-061616-01	6/16/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/27/2016 3:42 AM	6/27/2016 3:42 AM
1606631-008A	P113-SB01-GW	6/16/2016 11:45 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 2:57 PM	6/28/2016 2:57 PM
1606631-008B	P113-SB01-GW	6/16/2016 11:45 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/22/2016 11:35 PM
1606631-008C	P113-SB01-GW	6/16/2016 11:45 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:23 PM
1606631-009A	P113-SB03-GW	6/16/2016 1:10 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 3:35 PM	6/28/2016 3:35 PM
1606631-009B	P113-SB03-GW	6/16/2016 1:10 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 12:03 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 5:12 PM
1606631-009C	P113-SB03-GW	6/16/2016 1:10 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/5/2016 10:46 AM	7/13/2016 2:25 PM
1606631-010A	WDS-SB08-GW	6/17/2016 10:55 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 4:01 PM	6/28/2016 4:01 PM
1606631-010B	WDS-SB08-GW	6/17/2016 10:55 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 12:31 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 5:36 PM
1606631-010C	WDS-SB08-GW	6/17/2016 10:55 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 5:25 AM
1606631-010D	WDS-SB08-GW	6/17/2016 10:55 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:21 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:54 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 7:09 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:56 PM

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Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606631-011A	WDS-SB15-GW	6/17/2016 11:00 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 4:26 PM	6/28/2016 4:26 PM
1606631-011B	WDS-SB15-GW	6/17/2016 11:00 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 12:59 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 6:01 PM
1606631-011C	WDS-SB15-GW	6/17/2016 11:00 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 5:49 AM
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	7/1/2016 7:09 PM
1606631-011D	WDS-SB15-GW	6/17/2016 11:00 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:23 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:55 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:57 PM
1606631-012A	TB-GW-061716-01	6/17/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/27/2016 4:07 AM	6/27/2016 4:07 AM
1606631-013A	TB-GW-061616-02	6/16/2016 8:10 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/27/2016 4:32 AM	6/27/2016 4:32 AM
1606631-014A	WDS-SB12-GW	6/17/2016 12:30 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 5:07 PM	6/28/2016 5:07 PM
1606631-014B	WDS-SB12-GW	6/17/2016 12:30 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 1:27 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 6:26 PM
1606631-014C	WDS-SB12-GW	6/17/2016 12:30 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		6/27/2016 8:39 AM	6/29/2016 6:14 AM
1606631-014D	WDS-SB12-GW	6/17/2016 12:30 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:25 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:56 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:58 PM
1606631-015A	WDS-SB13-GW	6/17/2016 12:05 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/28/2016 5:33 PM	6/28/2016 5:33 PM
1606631-015B	WDS-SB13-GW	6/17/2016 12:05 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/23/2016 1:54 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/24/2016 11:08 PM

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WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606631-015B	WDS-SB13-GW	6/17/2016 12:05 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/21/2016 6:17 AM	6/28/2016 5:06 AM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 6:51 PM
1606631-015C	WDS-SB13-GW	6/17/2016 12:05 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 6:39 PM
1606631-015D	WDS-SB13-GW	6/17/2016 12:05 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:28 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:57 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 2:58 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40178**

Sample ID:	MB-40178	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	PBS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701925

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	13		16.50		80.9	46	115				
Surr: Nitrobenzene-d5	14		16.50		84.4	44	125				
Surr: Terphenyl-d14	16		16.50		95.3	58	133				

Sample ID:	LCS-40178	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	LCSS	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701926

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		16.54		81.7	46	115				
Surr: Nitrobenzene-d5	14		16.54		84.1	44	125				
Surr: Terphenyl-d14	16		16.54		94.9	58	133				

Sample ID:	1606392-005AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701928

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	15		17.40		83.7	46	115				
Surr: Nitrobenzene-d5	17		17.40		94.9	44	125				
Surr: Terphenyl-d14	17		17.40		96.9	58	133				

Sample ID:	1606392-005AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/16/2016	RunNo:	87615
Client ID:	ZZZZZZ	Batch ID:	40178	TestNo:	SW8270C	SW3550C		Analysis Date:	6/28/2016	SeqNo:	1701929

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	14		17.35		82.3	46	115		0	25	
Surr: Nitrobenzene-d5	16		17.35		92.5	44	125		0	25	
Surr: Terphenyl-d14	17		17.35		97.4	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	MB-40213	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	PBW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698438

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									U
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.43		0.5000		85.2	53	106				
Surr: Nitrobenzene-d5	0.46		0.5000		91.2	55	111				
Surr: Terphenyl-d14	0.57		0.5000		113	58	132				

Sample ID:	LCS-40213	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	LCSW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698439

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.34	0.020	0.4000	0	84.8	41	115				
2-Methylnaphthalene	0.32	0.020	0.4000	0	80.7	39	114				
Acenaphthene	0.33	0.020	0.4000	0	83.5	48	114				
Acenaphthylene	0.32	0.020	0.4000	0	80.3	35	121				
Anthracene	0.35	0.020	0.4000	0	86.5	53	119				

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WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	LCS-40213	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	LCSW	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698439

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.46	0.020	0.4000	0	116	59	120				
Benzo(a)pyrene	0.34	0.020	0.4000	0	85.8	53	120				
Benzo(b)fluoranthene	0.46	0.020	0.4000	0	115	53	126				
Benzo(g,h,i)perylene	0.38	0.020	0.4000	0	96.0	44	128				
Benzo(k)fluoranthene	0.31	0.020	0.4000	0	78.3	54	125				
Chrysene	0.32	0.020	0.4000	0	78.8	57	120				
Dibenzo(a,h)anthracene	0.40	0.020	0.4000	0	99.8	44	131				
Fluoranthene	0.35	0.020	0.4000	0	86.6	58	120				
Fluorene	0.35	0.020	0.4000	0	87.5	50	118				
Indeno(1,2,3-cd)pyrene	0.40	0.020	0.4000	0	99.7	48	130				
Naphthalene	0.30	0.020	0.4000	0	75.7	43	114				
Phenanthrene	0.39	0.020	0.4000	0	98.0	53	115				
Pyrene	0.40	0.020	0.4000	0	100	53	124				
Surr: 2-Fluorobiphenyl	0.44		0.5000		88.5	53	106				
Surr: Nitrobenzene-d5	0.52		0.5000		103	55	111				
Surr: Terphenyl-d14	0.61		0.5000		121	58	132				

Sample ID:	LCSD-40213	Samp Type:	LCSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	87461
Client ID:	LCSS02	Batch ID:	40213	TestNo:	SW8270C	SW3510C		Analysis Date:	6/22/2016	SeqNo:	1698440

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.35	0.020	0.4000	0	87.0	41	115	0.3390	2.57	20	
2-Methylnaphthalene	0.32	0.020	0.4000	0	81.2	39	114	0.3227	0.584	20	
Acenaphthene	0.34	0.020	0.4000	0	85.5	48	114	0.3340	2.40	20	
Acenaphthylene	0.33	0.020	0.4000	0	82.0	35	121	0.3210	2.16	20	
Anthracene	0.33	0.020	0.4000	0	83.6	53	119	0.3461	3.48	20	
Benz(a)anthracene	0.44	0.020	0.4000	0	110	59	120	0.4634	4.94	20	
Benzo(a)pyrene	0.33	0.020	0.4000	0	83.4	53	120	0.3434	2.91	20	
Benzo(b)fluoranthene	0.39	0.020	0.4000	0	96.4	53	126	0.4604	17.7	20	
Benzo(g,h,i)perylene	0.37	0.020	0.4000	0	93.6	44	128	0.3840	2.56	20	
Benzo(k)fluoranthene	0.36	0.020	0.4000	0	91.2	54	125	0.3130	15.2	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40213**

Sample ID:	**LCSD-40213**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**87461**
Client ID:	**LCSS02**	Batch ID:	**40213**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/22/2016**	SeqNo:	**1698440**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.34	0.020	0.4000	0	84.3	57	120	0.3151	6.81	20	
Dibenzo(a,h)anthracene	0.39	0.020	0.4000	0	97.3	44	131	0.3992	2.56	20	
Fluoranthene	0.35	0.020	0.4000	0	86.7	58	120	0.3464	0.0895	20	
Fluorene	0.36	0.020	0.4000	0	89.9	50	118	0.3499	2.74	20	
Indeno(1,2,3-cd)pyrene	0.39	0.020	0.4000	0	97.5	48	130	0.3988	2.22	20	
Naphthalene	0.31	0.020	0.4000	0	77.2	43	114	0.3028	1.98	20	
Phenanthrene	0.40	0.020	0.4000	0	101	53	115	0.3921	2.64	20	
Pyrene	0.40	0.020	0.4000	0	101	53	124	0.4010	0.790	20	
Surr: 2-Fluorobiphenyl	0.45		0.5000		90.5	53	106		0	20	
Surr: Nitrobenzene-d5	0.52		0.5000		104	55	111		0	20	
Surr: Terphenyl-d14	0.61		0.5000		122	58	132		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40220

Sample ID:	MB- 40220	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	86948
Client ID:	PBW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686944

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	MB- 40220	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	86948
Client ID:	PBW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686944

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	5.0	5.0									UZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									UY
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	44		25.00		176	43	140				Q
Surr: 2-Fluorobiphenyl	31		25.00		122	44	119				Q
Surr: 2-Fluorophenol	18		25.00		73.3	19	119				
Surr: Nitrobenzene-d5	32		25.00		129	44	120				Q
Surr: Phenol-d5	13		25.00		51.4	33	122				
Surr: Terphenyl-d14	45		25.00		180	50	134				Q

Sample ID:	LCS-40220	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86948
Client ID:	LCSW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686945

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.9	5.0	20.00	0	49.4	29	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCS-40220**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686945**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	9.2	5.0	20.00	0	45.8	32	111				
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.6	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.6	29	112				
2,4,5-Trichlorophenol	15	5.0	20.00	0	77.0	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.9	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	75.6	47	121				
2,4-Dimethyl phenol	13	5.0	20.00	0	63.5	31	124				
2,4-Dinitrophenol	48	25	50.00	0	95.1	23	143				Y
2,4-Dinitrotoluene	16	5.0	20.00	0	79.6	57	128				
2,6-Dinitrotoluene	15	5.0	20.00	0	73.2	57	124				
2-Chloronaphthalene	11	5.0	20.00	0	56.3	40	116				
2-Chlorophenol	12	5.0	20.00	0	61.4	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	62.0	30	117				
2-Nitroaniline	14	5.0	20.00	0	68.3	55	127				
2-Nitrophenol	15	5.0	20.00	0	74.6	47	123				
3,3´-Dichlorobenzidine	13	20	20.00	0	64.2	27	129				J
3-Nitroaniline	15	10	20.00	0	76.9	41	128				
3/4-Methylphenol [m/p-Cresol]	22	10	40.00	0	54.7	25	120				
4,6-Dinitro-2-methylphenol	17	10	20.00	0	86.0	44	137				
4-Bromophenyl phenyl ether	13	5.0	20.00	0	62.8	55	124				
4-Chloro-3-methylphenol	16	5.0	20.00	0	81.6	52	119				
4-Chloroaniline [p-Chloroaniline]	14	10	20.00	0	67.6	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	73.1	53	121				
4-Nitroaniline	12	10	20.00	0	62.0	50	130				
4-Nitrophenol	15	25	50.00	0	30.0	50	130				JQ
Benzoic acid	21	25	40.00	0	51.9	50	130				JYZ
Benzyl alcohol	9.7	25	20.00	0	48.6	31	112				J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	63.0	48	120				
Bis(2-chloroethyl) ether	12	5.0	20.00	0	59.5	43	118				
Bis(2-chloroisopropyl)ether	13	5.0	20.00	0	64.0	37	130				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	LCS-40220	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86948
Client ID:	LCSW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686945

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	15	5.0	20.00	0	76.0	55	135				
Butyl benzyl phthalate	15	5.0	20.00	0	73.6	53	134				
Carbazole	14	5.0	20.00	0	71.7	60	122				
Di-n-butyl phthalate	14	5.0	20.00	0	71.3	59	127				
Di-n-octyl phthalate	15	5.0	20.00	0	72.8	51	140				
Dibenzofuran	14	4.0	20.00	0	68.7	53	118				
Diethyl phthalate	16	5.0	20.00	0	78.3	56	125				
Dimethyl phthalate	14	5.0	20.00	0	72.2	45	127				
Hexachlorobenzene	13	5.0	20.00	0	63.0	53	125				
Hexachlorobutadiene	9.9	5.0	20.00	0	49.7	22	124				
Hexachloroethane	8.7	5.0	20.00	0	43.4	21	115				
Isophorone	13	5.0	20.00	0	65.6	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	69.7	50	130				
N-Nitrosodimethylamine	7.0	5.0	20.00	0	34.9	50	130				Q
N-Nitrosodiphenylamine	12	5.0	20.00	0	58.8	51	123				Y
Nitrobenzene	13	3.0	20.00	0	64.7	45	121				
Pentachlorophenol	11	5.0	20.00	0	54.8	35	138				Y
Phenol	6.3	5.0	20.00	0	31.6	34	121				Q
Surr: 2,4,6-Tribromophenol	22		25.00		87.1	43	140				
Surr: 2-Fluorobiphenyl	20		25.00		79.6	44	119				
Surr: 2-Fluorophenol	12		25.00		46.6	19	119				
Surr: Nitrobenzene-d5	20		25.00		81.6	44	120				
Surr: Phenol-d5	8.3		25.00		33.4	33	122				
Surr: Terphenyl-d14	23		25.00		90.6	50	134				

Sample ID:	LCSD-40220	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86948
Client ID:	LCSS02	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686946

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	5.0	20.00	0	56.7	29	116	9.870	13.9	25	
1,2-Dichlorobenzene	11	5.0	20.00	0	53.5	32	111	9.160	15.5	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCSD-40220**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSS02**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686946**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	9.4	5.0	20.00	0	46.8	28	110	8.530	9.28	25	
1,4-Dichlorobenzene	10	5.0	20.00	0	49.9	29	112	8.910	11.3	25	
2,4,5-Trichlorophenol	18	5.0	20.00	0	87.7	53	123	15.39	13.1	25	
2,4,6-Trichlorophenol	18	4.0	20.00	0	90.2	50	125	15.98	12.1	25	
2,4-Dichlorophenol	17	5.0	20.00	0	86.4	47	121	15.13	13.3	25	
2,4-Dimethyl phenol	14	5.0	20.00	0	72.0	31	124	12.70	12.6	25	
2,4-Dinitrophenol	51	25	50.00	0	102	23	143	47.55	6.90	25	JY
2,4-Dinitrotoluene	18	5.0	20.00	0	90.7	57	128	15.93	12.9	25	
2,6-Dinitrotoluene	16	5.0	20.00	0	80.7	57	124	14.64	9.75	25	
2-Chloronaphthalene	12	5.0	20.00	0	61.4	40	116	11.26	8.58	25	
2-Chlorophenol	13	5.0	20.00	0	67.2	38	117	12.27	9.10	25	
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	68.6	30	117	12.41	10.0	25	
2-Nitroaniline	15	5.0	20.00	0	74.4	55	127	13.66	8.48	25	
2-Nitrophenol	17	5.0	20.00	0	83.8	47	123	14.92	11.6	25	
3,3´-Dichlorobenzidine	14	20	20.00	0	69.6	27	129	12.84	8.00	25	J
3-Nitroaniline	17	10	20.00	0	85.9	41	128	15.38	11.1	25	
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	59.4	25	120	21.89	8.28	25	
4,6-Dinitro-2-methylphenol	19	10	20.00	0	94.2	44	137	17.19	9.11	25	
4-Bromophenyl phenyl ether	14	5.0	20.00	0	68.1	55	124	12.55	8.18	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	91.3	52	119	16.31	11.3	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	74.4	33	117	13.51	9.72	25	
4-Chlorophenyl phenyl ether	16	5.0	20.00	0	81.6	53	121	14.62	11.0	25	
4-Nitroaniline	14	10	20.00	0	70.1	50	130	12.39	12.3	25	
4-Nitrophenol	18	25	50.00	0	35.3	50	130	14.98	16.4	25	JQ
Benzoic acid	19	25	40.00	0	47.9	50	130	20.75	8.02	25	JQYZ
Benzyl alcohol	11	25	20.00	0	54.9	31	112	9.720	12.2	25	J
Bis(2-chloroethoxy) methane	14	5.0	20.00	0	68.7	48	120	12.61	8.58	25	
Bis(2-chloroethyl) ether	13	5.0	20.00	0	65.3	43	118	11.90	9.22	25	
Bis(2-chloroisopropyl)ether	14	5.0	20.00	0	71.5	37	130	12.79	11.1	25	Z
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	84.9	55	135	15.20	11.1	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCSD-40220**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSS02**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686946**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	17	5.0	20.00	0	82.6	53	134	14.72	11.6	25	
Carbazole	16	5.0	20.00	0	80.6	60	122	14.34	11.7	25	
Di-n-butyl phthalate	16	5.0	20.00	0	80.1	59	127	14.26	11.6	25	
Di-n-octyl phthalate	16	5.0	20.00	0	81.2	51	140	14.55	11.0	25	
Dibenzofuran	15	4.0	20.00	0	75.2	53	118	13.74	8.97	25	
Diethyl phthalate	17	5.0	20.00	0	86.5	56	125	15.66	9.95	25	
Dimethyl phthalate	16	5.0	20.00	0	79.8	45	127	14.44	9.94	25	
Hexachlorobenzene	14	5.0	20.00	0	68.1	53	125	12.60	7.78	25	
Hexachlorobutadiene	11	5.0	20.00	0	53.4	22	124	9.940	7.08	25	
Hexachloroethane	9.0	5.0	20.00	0	45.0	21	115	8.690	3.39	25	
Isophorone	14	5.0	20.00	0	70.6	42	124	13.11	7.49	25	
N-Nitroso-di-n-propylamine	15	5.0	20.00	0	75.6	50	130	13.94	8.06	25	
N-Nitrosodimethylamine	7.2	5.0	20.00	0	36.2	50	130	6.970	3.94	25	Q
N-Nitrosodiphenylamine	13	5.0	20.00	0	65.4	51	123	11.76	10.6	25	Y
Nitrobenzene	15	3.0	20.00	0	74.0	45	121	12.94	13.4	25	
Pentachlorophenol	13	5.0	20.00	0	63.2	35	138	10.95	14.3	25	Y
Phenol	6.9	5.0	20.00	0	34.4	34	121	6.320	8.48	25	
Surr: 2,4,6-Tribromophenol	23		25.00		93.4	43	140		0	25	
Surr: 2-Fluorobiphenyl	21		25.00		83.1	44	119		0	25	
Surr: 2-Fluorophenol	12		25.00		46.2	19	119		0	25	
Surr: Nitrobenzene-d5	22		25.00		87.4	44	120		0	25	
Surr: Phenol-d5	8.4		25.00		33.6	33	122		0	25	
Surr: Terphenyl-d14	24		25.00		95.4	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	1606422-008CMS	Samp Type:	MS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688618

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.098	1.961	0	79.2	50	114				
Aroclor 1260	1.6	0.15	1.961	0	82.9	20	127				
Surr: Tetrachloro-m-xylene	0.062		0.09804		63.5	48	111				
Surr: Decachlorobiphenyl	0.073		0.09804		74.3	47	122				

Sample ID:	1606422-008CMSD	Samp Type:	MSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688619

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.094	1.887	0	83.0	50	114	1.553	0.816	25	
Aroclor 1260	1.7	0.14	1.887	0	90.1	20	127	1.625	4.51	25	
Surr: Tetrachloro-m-xylene	0.062		0.09434		66.1	48	111		0	25	
Surr: Decachlorobiphenyl	0.079		0.09434		83.6	47	122		0	25	

Sample ID:	LCS-40264	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	LCSW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688631

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.7	0.10	2.000	0	83.7	50	114				
Aroclor 1260	1.7	0.15	2.000	0	86.6	20	127				
Surr: Tetrachloro-m-xylene	0.070		0.1000		69.9	48	111				
Surr: Decachlorobiphenyl	0.083		0.1000		83.3	47	122				

Sample ID:	MB-40264	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	PBW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688632

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	MB-40264	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87046
Client ID:	PBW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688632

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.094		0.1000		93.7	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		106	40	135				

Sample ID:	1606422-008CMS	Samp Type:	MS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87065
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688971

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.098	1.961	0	80.4	46	129				
Aroclor 1260	1.6	0.20	1.961	0	82.0	45	134				
Surr: Tetrachloro-m-xylene	0.060		0.09804		61.2	40	135				
Surr: Decachlorobiphenyl	0.071		0.09804		72.1	40	135				

Sample ID:	1606422-008CMSD	Samp Type:	MSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87065
Client ID:	ZZZZZZ	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688972

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.094	1.887	0	81.7	46	129	1.577	2.27	25	
Aroclor 1260	1.6	0.19	1.887	0	87.3	45	134	1.609	2.41	25	
Surr: Tetrachloro-m-xylene	0.059		0.09434		62.9	40	135		0	25	
Surr: Decachlorobiphenyl	0.073		0.09434		77.7	40	135		0	25	

Sample ID:	LCS-40264	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87065
Client ID:	LCSW	Batch ID:	40264	TestNo:	SW8082	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688996

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.8	0.10	2.000	0	91.2	46	129				
Aroclor 1260	1.9	0.20	2.000	0	95.6	45	134				
Surr: Tetrachloro-m-xylene	0.076		0.1000		75.8	40	135				
Surr: Decachlorobiphenyl	0.088		0.1000		88.4	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40264**

Sample ID:	**MB-40264**	Samp Type:	**MBLK**	Test Code:	**SW_8082A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87065**
Client ID:	**PBW**	Batch ID:	**40264**	TestNo:	**SW8082**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1688997**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.082		0.1000		81.7	40	135				
Surr: Decachlorobiphenyl	0.093		0.1000		92.7	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40329**

Sample ID:	LCS-40329	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	LCSW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693763

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	95.9	50	114				
Aroclor 1260	2.0	0.15	2.000	0	102	20	127				
Surr: Tetrachloro-m-xylene	0.073		0.1000		73.5	48	111				
Surr: Decachlorobiphenyl	0.10		0.1000		100	47	122				

Sample ID:	LCSD-40329	Samp Type:	LCSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	LCSS02	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693764

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	93.7	50	114	1.918	2.37	25	
Aroclor 1260	2.0	0.15	2.000	0	98.3	20	127	2.044	3.95	25	
Surr: Tetrachloro-m-xylene	0.079		0.1000		79.0	48	111		0	25	
Surr: Decachlorobiphenyl	0.094		0.1000		94.4	47	122		0	25	

Sample ID:	MB-40329	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	PBW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693765

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.088		0.1000		87.6	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		110	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40329**

Sample ID:	LCS-40329	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	LCSW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693976

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	95.9	46	129				
Aroclor 1260	2.0	0.20	2.000	0	102	45	134				
Surr: Tetrachloro-m-xylene	0.073		0.1000		73.5	40	135				
Surr: Decachlorobiphenyl	0.10		0.1000		100	40	135				

Sample ID:	LCSD-40329	Samp Type:	LCSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	LCSS02	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693977

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	93.7	46	129	1.918	2.37	25	
Aroclor 1260	2.0	0.20	2.000	0	98.3	45	134	2.044	3.95	25	
Surr: Tetrachloro-m-xylene	0.079		0.1000		79.0	40	135		0	25	
Surr: Decachlorobiphenyl	0.094		0.1000		94.4	40	135		0	25	

Sample ID:	MB-40329	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	PBW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693978

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.088		0.1000		87.6	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		110	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40334

Sample ID:	LCS-40334	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320
Client ID:	LCSW	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695233

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	210	1.0	200.0	0	106	88	115				G

Sample ID:	MB-40334	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320
Client ID:	PBW	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695234

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	1.0	1.0									UG

Sample ID:	1606739-009CMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320
Client ID:	ZZZZZZ	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695387

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	190	1.0	200.0	0.2600	96.8	88	115				

Sample ID:	1606739-009CMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87320
Client ID:	ZZZZZZ	Batch ID:	40334	TestNo:	SW6020A	SW3020A		Analysis Date:	7/13/2016	SeqNo:	1695388

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	210	1.0	200.0	0.2600	105	88	115	193.8	8.46	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40338**

Sample ID:	LCS-40338	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	LCSW	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694300

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	450	2.5	400.0	0	113	85	117				G
Silver	440	1.5	400.0	0	110	85	116				

Sample ID:	MB-40338	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	PBW	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694301

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	2.5	2.5									UG
Silver	1.5	1.5									U

Sample ID:	1606636-011BMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	ZZZZZZ	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694304

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	450	2.5	400.0	10.08	111	85	117				G
Silver	430	1.5	400.0	6.900	105	85	116				

Sample ID:	1606636-011BMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	ZZZZZZ	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694306

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	440	2.5	400.0	10.08	108	85	117	454.9	3.31	20	G
Silver	410	1.5	400.0	6.900	101	85	116	426.6	3.47	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40440**

Sample ID:	MB-40440	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	PBW	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	50	50									U
Arsenic	1.5	1.5									U
Barium	25	25									U
Beryllium	1.0	1.0									UG
Cadmium	1.0	1.0									U
Calcium	1,000	1,000									U
Chromium	10	10									U
Cobalt	5.0	5.0									U
Copper	5.0	5.0									UG
Iron	200	200									U
Lead	1.0	1.0									U
Magnesium	500	500									U
Manganese	5.0	5.0									UG
Nickel	10	10									U
Potassium	500	500									U
Selenium	5.0	5.0									U
Sodium	500	500									U
Thallium	2.0	2.0									U
Vanadium	4.0	4.0									U
Zinc	50	50									U

Sample ID:	LCS-40440	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	LCSW	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703566

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	200	50	200.0	0	101	84	117				
Arsenic	200	1.5	200.0	0	102	84	116				
Barium	200	25	200.0	0	101	86	114				
Beryllium	190	1.0	200.0	0	95.9	83	121				G
Cadmium	200	1.0	200.0	0	98.5	87	115				
Calcium	2,100	1,000	2,000	0	104	87	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40440**

Sample ID:	LCS-40440	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	LCSW	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703566

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	200	10	200.0	0	100	85	116				
Cobalt	200	5.0	200.0	0	101	86	115				
Copper	210	5.0	200.0	0	103	85	118				G
Iron	2,100	200	2,000	0	103	87	118				
Lead	200	1.0	200.0	0	102	88	115				
Magnesium	2,100	500	2,000	0	103	83	118				
Manganese	200	5.0	200.0	0	100	87	115				G
Nickel	200	10	200.0	0	101	85	117				
Potassium	2,100	500	2,000	0	103	87	115				
Selenium	200	5.0	200.0	0	99.6	80	120				
Sodium	2,100	500	2,000	0	105	85	117				
Thallium	200	2.0	200.0	0	102	82	116				
Vanadium	200	4.0	200.0	0	99.0	86	115				
Zinc	200	50	200.0	0	97.9	83	119				

Sample ID:	1606631-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	WDS-SB03-GWMS1	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,900	50	200.0	6,986	452	84	117				Q
Arsenic	190	1.5	200.0	0.9000	96.3	84	116				
Barium	260	25	200.0	57.00	102	86	114				
Beryllium	180	1.0	200.0	0.3450	90.2	83	121				G
Cadmium	190	1.0	200.0	0	96.7	87	115				
Calcium	35,000	1,000	2,000	33,940	43.5	87	118				Q
Chromium	190	10	200.0	11.20	90.8	85	116				
Cobalt	190	5.0	200.0	2.175	91.9	86	115				
Copper	190	5.0	200.0	3.295	93.5	85	118				G
Iron	13,000	200	2,000	11,370	89.6	87	118				
Lead	200	1.0	200.0	5.015	98.2	88	115				
Magnesium	8,900	500	2,000	7,020	92.2	83	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40440

Sample ID:	1606631-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	WDS-SB03-GWMS1	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Manganese	470	5.0	200.0	280.6	95.2	87	115				G
Nickel	190	10	200.0	6.035	92.2	85	117				
Potassium	3,900	500	2,000	2,082	93.0	87	115				
Selenium	180	5.0	200.0	0	91.8	80	120				
Sodium	28,000	500	2,000	25,980	102	85	117				
Thallium	190	2.0	200.0	0.2600	97.3	82	116				
Vanadium	190	4.0	200.0	11.44	89.9	86	115				
Zinc	210	50	200.0	17.14	94.9	83	119				

Sample ID:	1606631-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	WDS-SB03-GWSD1	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703571

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,000	50	200.0	6,986	495	84	117	7,890	1.08	20	Q
Arsenic	200	1.5	200.0	0.9000	99.8	84	116	193.6	3.53	20	
Barium	260	25	200.0	57.00	103	86	114	261.2	0.329	20	
Beryllium	180	1.0	200.0	0.3450	91.6	83	121	180.8	1.53	20	G
Cadmium	190	1.0	200.0	0	97.4	87	115	193.4	0.709	20	
Calcium	36,000	1,000	2,000	33,940	87.0	87	118	34,810	2.46	20	Q
Chromium	200	10	200.0	11.20	93.5	85	116	192.8	2.72	20	
Cobalt	190	5.0	200.0	2.175	93.4	86	115	186.0	1.63	20	
Copper	190	5.0	200.0	3.295	94.4	85	118	190.3	0.902	20	G
Iron	13,000	200	2,000	11,370	106	87	118	13,170	2.39	20	
Lead	200	1.0	200.0	5.015	97.5	88	115	201.3	0.650	20	
Magnesium	8,900	500	2,000	7,020	96.2	83	118	8,865	0.889	20	
Manganese	470	5.0	200.0	280.6	95.4	87	115	470.9	0.0976	20	G
Nickel	190	10	200.0	6.035	93.9	85	117	190.3	1.80	20	
Potassium	4,000	500	2,000	2,082	95.8	87	115	3,942	1.42	20	
Selenium	190	5.0	200.0	0	95.7	80	120	183.6	4.12	20	
Sodium	29,000	500	2,000	25,980	127	85	117	28,020	1.77	20	Q
Thallium	200	2.0	200.0	0.2600	97.7	82	116	194.8	0.433	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40440**

Sample ID:	**1606631-005DMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**7/15/2016**	RunNo:	**87684**
Client ID:	**WDS-SB03-GWSD1**	Batch ID:	**40440**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/28/2016**	SeqNo:	**1703571**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Vanadium	200	4.0	200.0	11.44	92.4	86	115	191.3	2.56	20	
Zinc	210	50	200.0	17.14	95.3	83	119	207.0	0.369	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID:	VOA11B LCS2 0626	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86945
Client ID:	LCSW	Batch ID:	R86945	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1686847

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.0	1.0	10.00	0	79.9	78	124				
1,1,1-Trichloroethane	7.6	1.0	10.00	0	76.5	74	131				
1,1,2,2-Tetrachloroethane	8.8	1.0	10.00	0	88.3	71	121				
1,1,2-Trichloroethane	9.0	1.0	10.00	0	90.5	80	119				
1,1-Dichloroethane	8.6	2.0	10.00	0	86.2	77	125				
1,1-Dichloroethene	8.4	1.0	10.00	0	83.8	71	131				
1,2,3-Trichloropropane	7.5	1.0	10.00	0	75.4	73	122				
1,2-Dibromo-3-chloropropane	7.3	5.0	10.00	0	73.1	62	128				
1,2-Dibromoethane	9.6	1.0	10.00	0	95.5	77	121				
1,2-Dichloroethane	8.1	1.0	10.00	0	80.7	73	128				
1,2-Dichloropropane	8.7	1.0	10.00	0	87.3	78	122				
2-Butanone [MEK]	8.6	10	10.00	0	86.2	56	143				J
2-Hexanone	6.6	2.0	10.00	0	66.5	57	139				Y
Acetone	9.9	10	10.00	0	99.1	39	160				JY
Benzene	9.1	1.0	10.00	0	91.2	79	120				
Bromodichloromethane	7.9	1.0	10.00	0	78.8	79	125				Q
Bromoform	5.8	1.0	10.00	0	58.4	66	130				QY
Carbon disulfide	8.8	1.0	10.00	0	88.0	64	133				
Carbon tetrachloride	7.9	1.0	10.00	0	79.3	72	136				
Chlorobenzene	9.0	1.0	10.00	0	89.8	82	118				
Chlorodibromomethane	6.5	1.0	10.00	0	65.2	74	126				Q
Chloroethane	8.8	2.0	10.00	0	88.0	60	138				
Chloroform	8.4	1.0	10.00	0	84.4	79	124				
Chloromethane	15	1.0	10.00	0	151	50	139				QBY
cis-1,2-Dichloroethene	8.6	1.0	10.00	0	85.5	78	123				
cis-1,3-Dichloropropene	6.8	1.0	10.00	0	67.8	75	124				Q
Dichlorodifluoromethane [Freon-12]	9.6	1.0	10.00	0	96.2	32	152				
Ethylbenzene	8.7	1.0	10.00	0	86.6	79	121				
Methylene chloride	9.8	5.0	10.00	0	98.1	74	124				
Styrene	8.0	1.0	10.00	0	79.8	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID: **VOA11B LCS2 0626** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSW** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686847**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	11	1.0	10.00	0	110	74	129				
Toluene	9.0	1.0	10.00	0	89.5	80	121				
trans-1,2-Dichloroethene	9.0	1.0	10.00	0	89.8	75	124				
trans-1,3-Dichloropropene	8.2	1.0	10.00	0	82.3	73	127				
Trichloroethene	9.3	1.0	10.00	0	92.7	79	123				
Trichlorofluoromethane [Freon-11]	6.6	1.0	10.00	0	66.3	65	141				Y
Vinyl acetate	6.0	5.0	10.00	0	60.5	54	146				
Vinyl chloride	9.1	1.0	10.00	0	90.9	58	137				
Xylene (total)	25	3.0	30.00	0	82.7	79	121				
Surr: 4-Bromofluorobenzene	57		60.00		94.4	85	114				
Surr: Dibromofluoromethane	53		60.00		89.0	80	119				
Surr: Toluene-d8	55		60.00		92.0	89	112				

Sample ID: **VOA11B LCSD2 062** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/27/2016** RunNo: **86945**

Client ID: **LCSS02** Batch ID: **R86945** TestNo: **SW8260B** Analysis Date: **6/27/2016** SeqNo: **1686848**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	7.3	1.0	10.00	0	73.1	78	124	7.990	8.89	25	Q
1,1,1-Trichloroethane	7.5	1.0	10.00	0	74.6	74	131	7.650	2.51	25	
1,1,2,2-Tetrachloroethane	8.6	1.0	10.00	0	85.9	71	121	8.830	2.76	25	
1,1,2-Trichloroethane	9.0	1.0	10.00	0	89.7	80	119	9.050	0.888	25	
1,1-Dichloroethane	8.4	2.0	10.00	0	83.5	77	125	8.620	3.18	25	
1,1-Dichloroethene	7.7	1.0	10.00	0	77.3	71	131	8.380	8.07	25	
1,2,3-Trichloropropane	8.4	1.0	10.00	0	84.0	73	122	7.540	10.8	25	
1,2-Dibromo-3-chloropropane	6.6	5.0	10.00	0	65.6	62	128	7.310	10.8	25	
1,2-Dibromoethane	8.8	1.0	10.00	0	88.5	77	121	9.550	7.61	25	
1,2-Dichloroethane	7.8	1.0	10.00	0	78.3	73	128	8.070	3.02	25	
1,2-Dichloropropane	8.4	1.0	10.00	0	84.1	78	122	8.730	3.73	25	
2-Butanone [MEK]	8.4	10	10.00	0	84.2	56	143	8.620	2.35	25	J
2-Hexanone	6.6	2.0	10.00	0	66.3	57	139	6.650	0.301	25	Y
Acetone	9.4	10	10.00	0	93.8	39	160	9.910	5.50	25	JY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86945

Sample ID:	VOA11B LCSD2 062	Samp Type:	LCSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86945
Client ID:	LCSS02	Batch ID:	R86945	TestNo:	SW8260B			Analysis Date:	6/27/2016	SeqNo:	1686848

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.6	1.0	10.00	0	86.1	79	120	9.120	5.75	25	
Bromodichloromethane	7.7	1.0	10.00	0	77.2	79	125	7.880	2.05	25	Q
Bromoform	5.5	1.0	10.00	0	55.1	66	130	5.840	5.81	25	QY
Carbon disulfide	7.7	1.0	10.00	0	77.1	64	133	8.800	13.2	25	
Carbon tetrachloride	7.5	1.0	10.00	0	75.1	72	136	7.930	5.44	25	
Chlorobenzene	8.3	1.0	10.00	0	83.2	82	118	8.980	7.63	25	
Chlorodibromomethane	6.2	1.0	10.00	0	62.5	74	126	6.520	4.23	25	Q
Chloroethane	8.4	2.0	10.00	0	83.5	60	138	8.800	5.25	25	
Chloroform	8.2	1.0	10.00	0	81.8	79	124	8.440	3.13	25	
Chloromethane	14	1.0	10.00	0	142	50	139	15.06	6.02	25	QBY
cis-1,2-Dichloroethene	8.0	1.0	10.00	0	80.3	78	123	8.550	6.27	25	
cis-1,3-Dichloropropene	6.4	1.0	10.00	0	64.5	75	124	6.780	4.99	25	Q
Dichlorodifluoromethane [Freon-12]	8.7	1.0	10.00	0	87.4	32	152	9.620	9.59	25	
Ethylbenzene	8.2	1.0	10.00	0	82.3	79	121	8.660	5.09	25	
Methylene chloride	9.4	5.0	10.00	0	93.7	74	124	9.810	4.59	25	
Styrene	7.5	1.0	10.00	0	74.9	78	123	7.980	6.33	25	Q
Tetrachloroethene	11	1.0	10.00	0	107	74	129	11.04	3.50	25	
Toluene	8.4	1.0	10.00	0	83.6	80	121	8.950	6.82	25	
trans-1,2-Dichloroethene	8.3	1.0	10.00	0	83.3	75	124	8.980	7.51	25	
trans-1,3-Dichloropropene	7.8	1.0	10.00	0	78.0	73	127	8.230	5.36	25	
Trichloroethene	8.5	1.0	10.00	0	85.3	79	123	9.270	8.31	25	
Trichlorofluoromethane [Freon-11]	6.3	1.0	10.00	0	62.6	65	141	6.630	5.74	25	QY
Vinyl acetate	5.8	5.0	10.00	0	57.9	54	146	6.050	4.39	0	
Vinyl chloride	8.5	1.0	10.00	0	85.0	58	137	9.090	6.71	25	
Xylene (total)	23	3.0	30.00	0	78.2	79	121	24.82	5.68	25	Q
Surr: 4-Bromofluorobenzene	56		60.00		94.1	85	114		0	25	
Surr: Dibromofluoromethane	52		60.00		87.2	80	119		0	25	
Surr: Toluene-d8	54		60.00		90.8	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86945**

Sample ID:	**VOA11B MBLK2 062**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86945**
Client ID:	**PBW**	Batch ID:	**R86945**	TestNo:	**SW8260B**			Analysis Date:	**6/27/2016**	SeqNo:	**1686850**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									U
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									UY
Acetone	10	10									UY
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									UY
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	0.73	1.0									JTY
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	0.56	5.0									J
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86945**

Sample ID:	**VOA11B MBLK2 062**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86945**
Client ID:	**PBW**	Batch ID:	**R86945**	TestNo:	**SW8260B**			Analysis Date:	**6/27/2016**	SeqNo:	**1686850**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									UY
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	46		50.00		91.9	85	114				
Surr: Dibromofluoromethane	41		50.00		81.6	80	119				
Surr: Toluene-d8	44		50.00		87.2	89	112				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86984

Sample ID:	VOA10 LCS 062816	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/28/2016	RunNo:	86984
Client ID:	LCSW	Batch ID:	R86984	TestNo:	SW8260B			Analysis Date:	6/28/2016	SeqNo:	1687698

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10	1.0	10.00	0	102	78	124				
1,1,1-Trichloroethane	9.8	1.0	10.00	0	97.7	74	131				
1,1,2,2-Tetrachloroethane	9.4	1.0	10.00	0	94.4	71	121				
1,1,2-Trichloroethane	10	1.0	10.00	0	104	80	119				
1,1-Dichloroethane	9.5	1.0	10.00	0	95.3	77	125				
1,1-Dichloroethene	9.1	1.0	10.00	0	91.1	71	131				
1,2,3-Trichloropropane	8.9	1.0	10.00	0	88.6	73	122				
1,2-Dibromo-3-chloropropane	7.6	1.0	10.00	0	75.8	62	128				Y
1,2-Dibromoethane	10	1.0	10.00	0	104	77	121				
1,2-Dichloroethane	10	1.0	10.00	0	101	73	128				
1,2-Dichloropropane	10	1.0	10.00	0	102	78	122				
2-Butanone [MEK]	8.5	10	10.00	0	84.6	56	143				J
2-Hexanone	9.6	2.0	10.00	0	96.1	57	139				
Acetone	8.9	10	10.00	0	88.9	39	160				J
Benzene	9.3	1.0	10.00	0	93.3	79	120				
Bromodichloromethane	11	1.0	10.00	0	108	79	125				
Bromoform	7.4	1.0	10.00	0	73.6	66	130				
Carbon disulfide	9.5	1.0	10.00	0	94.6	64	133				
Carbon tetrachloride	9.7	1.0	10.00	0	97.3	72	136				
Chlorobenzene	9.6	1.0	10.00	0	95.6	82	118				
Chlorodibromomethane	11	1.0	10.00	0	107	74	126				
Chloroethane	10	2.0	10.00	0	100	60	138				
Chloroform	9.7	1.0	10.00	0	97.2	79	124				
Chloromethane	9.1	1.0	10.00	0	90.8	50	139				
cis-1,2-Dichloroethene	9.4	1.0	10.00	0	94.4	78	123				
cis-1,3-Dichloropropene	10	1.0	10.00	0	101	75	124				
Dichlorodifluoromethane [Freon-12]	9.5	1.0	10.00	0	95.0	32	152				
Ethylbenzene	9.6	1.0	10.00	0	95.7	79	121				
Methylene chloride	11	2.0	10.00	0	114	74	124				
Styrene	9.9	1.0	10.00	0	98.7	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86984

Sample ID: **VOA10 LCS 062816** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/28/2016** RunNo: **86984**

Client ID: **LCSW** Batch ID: **R86984** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687698**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	9.8	1.0	10.00	0	98.1	74	129				
Toluene	11	1.0	10.00	0	110	80	121				
trans-1,2-Dichloroethene	10	1.0	10.00	0	101	75	124				
trans-1,3-Dichloropropene	10	1.0	10.00	0	105	73	127				
Trichloroethene	9.5	1.0	10.00	0	95.4	79	123				
Trichlorofluoromethane [Freon-11]	9.5	1.0	10.00	0	95.4	65	141				
Vinyl acetate	9.2	5.0	10.00	0	92.3	54	146				
Vinyl chloride	10	1.0	10.00	0	101	58	137				
Xylene (total)	29	3.0	30.00	0	97.3	79	121				
Surr: 4-Bromofluorobenzene	61		60.00		102	85	114				
Surr: Dibromofluoromethane	56		60.00		93.2	80	119				
Surr: Toluene-d8	60		60.00		100	89	112				

Sample ID: **VOA10 LCSD 06281** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/28/2016** RunNo: **86984**

Client ID: **LCSS02** Batch ID: **R86984** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687699**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.9	1.0	10.00	0	88.6	78	124	10.23	14.4	20	
1,1,1-Trichloroethane	8.3	1.0	10.00	0	83.4	74	131	9.770	15.8	20	
1,1,2,2-Tetrachloroethane	8.4	1.0	10.00	0	84.1	71	121	9.440	11.5	20	
1,1,2-Trichloroethane	9.0	1.0	10.00	0	89.8	80	119	10.37	14.4	20	
1,1-Dichloroethane	8.5	1.0	10.00	0	84.7	77	125	9.530	11.8	20	
1,1-Dichloroethene	8.1	1.0	10.00	0	80.8	71	131	9.110	12.0	20	
1,2,3-Trichloropropane	7.6	1.0	10.00	0	76.4	73	122	8.860	14.8	20	
1,2-Dibromo-3-chloropropane	6.0	1.0	10.00	0	60.5	62	128	7.580	22.5	20	RQY
1,2-Dibromoethane	9.5	1.0	10.00	0	94.8	77	121	10.40	9.26	20	
1,2-Dichloroethane	8.7	1.0	10.00	0	87.4	73	128	10.10	14.4	20	
1,2-Dichloropropane	8.8	1.0	10.00	0	87.7	78	122	10.22	15.3	20	
2-Butanone [MEK]	8.2	10	10.00	0	82.5	56	143	8.460	2.51	20	J
2-Hexanone	8.4	2.0	10.00	0	84.2	57	139	9.610	13.2	20	
Acetone	8.6	10	10.00	0	85.9	39	160	8.890	3.43	20	J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86984

Sample ID: **VOA10 LCSD 06281** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/28/2016** RunNo: **86984**

Client ID: **LCSS02** Batch ID: **R86984** TestNo: **SW8260B** Analysis Date: **6/28/2016** SeqNo: **1687699**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.2	1.0	10.00	0	82.0	79	120	9.330	12.9	20	
Bromodichloromethane	9.2	1.0	10.00	0	92.3	79	125	10.75	15.2	20	
Bromoform	6.5	1.0	10.00	0	64.8	66	130	7.360	12.7	20	Q
Carbon disulfide	7.9	1.0	10.00	0	79.3	64	133	9.460	17.6	20	
Carbon tetrachloride	8.4	1.0	10.00	0	83.8	72	136	9.730	14.9	20	
Chlorobenzene	8.1	1.0	10.00	0	81.1	82	118	9.560	16.4	20	Q
Chlorodibromomethane	9.6	1.0	10.00	0	95.6	74	126	10.72	11.4	20	
Chloroethane	8.2	2.0	10.00	0	81.8	60	138	10.00	20.0	20	R
Chloroform	8.3	1.0	10.00	0	83.4	79	124	9.720	15.3	20	
Chloromethane	8.1	1.0	10.00	0	81.4	50	139	9.080	10.9	20	
cis-1,2-Dichloroethene	8.1	1.0	10.00	0	81.4	78	123	9.440	14.8	20	
cis-1,3-Dichloropropene	8.3	1.0	10.00	0	82.6	75	124	10.08	19.8	20	
Dichlorodifluoromethane [Freon-12]	8.4	1.0	10.00	0	84.2	32	152	9.500	12.1	20	
Ethylbenzene	8.2	1.0	10.00	0	81.7	79	121	9.570	15.8	20	
Methylene chloride	10	2.0	10.00	0	101	74	124	11.35	12.1	20	
Styrene	8.8	1.0	10.00	0	87.7	78	123	9.870	11.8	20	
Tetrachloroethene	9.0	1.0	10.00	0	90.2	74	129	9.810	8.39	20	
Toluene	9.4	1.0	10.00	0	94.0	80	121	11.04	16.0	20	
trans-1,2-Dichloroethene	8.8	1.0	10.00	0	88.4	75	124	10.05	12.8	20	
trans-1,3-Dichloropropene	9.0	1.0	10.00	0	90.4	73	127	10.49	14.8	20	
Trichloroethene	9.2	1.0	10.00	0	91.5	79	123	9.540	4.17	20	
Trichlorofluoromethane [Freon-11]	9.0	1.0	10.00	0	89.9	65	141	9.540	5.94	20	
Vinyl acetate	8.3	5.0	10.00	0	83.3	54	146	9.230	10.3	20	
Vinyl chloride	8.4	1.0	10.00	0	84.2	58	137	10.07	17.8	20	
Xylene (total)	25	3.0	30.00	0	84.1	79	121	29.20	14.6	20	
Surr: 4-Bromofluorobenzene	59		60.00		98.1	85	114		0	20	
Surr: Dibromofluoromethane	53		60.00		87.6	80	119		0	20	
Surr: Toluene-d8	58		60.00		97.4	89	112		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86984**

Sample ID:	**VOA10 MBLK 06281A**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/28/2016**	RunNo:	**86984**
Client ID:	**PBW**	Batch ID:	**R86984**	TestNo:	**SW8260B**			Analysis Date:	**6/28/2016**	SeqNo:	**1687701**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	1.0	1.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	1.0	1.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	1.8	10									J
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	2.0	2.0									U
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86984**

Sample ID:	**VOA10 MBLK 06281A**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**6/28/2016**	RunNo:	**86984**
Client ID:	**PBW**	Batch ID:	**R86984**	TestNo:	**SW8260B**			Analysis Date:	**6/28/2016**	SeqNo:	**1687701**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	48		50.00		96.0	85	114				
Surr: Dibromofluoromethane	44		50.00		87.2	80	119				
Surr: Toluene-d8	47		50.00		93.6	89	112				

RTI Laboratories - Definitions and Acronyms

WO#: 1606631

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606631
copy Combined

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	061716-03
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB10	-	-	N	1	WDS-SB10-GW	6/15/16	1545	WG	10	053	3			4			2	1			1	pH okay <2
P113-SB02	-	-	N	1	P113-SB02-GW	6/16/16	1220	WG	3		3			4.					1.		2	
WDS-SB01	-	-	N	1	WDS-SB01-GW	6/16/16	1420	WG	3		3			4.			2	1.			3	*
WDS-SB02	-	-	N	1	WDS-SB02-GW	6/16/16	1445	WG	3		3			4.			2	1.			4	
WDS-SB03	-	-	N	1	WDS-SB03-GW	6/16/16	1515	WG	3		3			4.			2	1.			5	
FieldQC	-	-	TB	1	TB-GW-061516-01	6/15/16	0000	WQ	3		3										6	Trip Blank*
FieldQC	-	-	TB	1	TB-GW-061616-01	6/16/16	0000	WQ	3		3										7	Trip Blank*

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/17/16	Time 0930	1. Received By / Company	XFER TO FEDEX	Date 6/17/16	Time 0930
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	Rachel Clear	Date 18JUN16	Time 1037

Comments

Shipment Method/Airbill No. 8103 0202 5589

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

* one vial with less than pea-sized bubble. RDJ 18JUNE16

** all vials with less than pea-sized bubble. RDJ 18 JUNE 16

#002, 3.9°C

160666631 copy combined

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061717-08
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
P113-SB01	–	–	N	1	P113-SB01-GW	6/16/16	1145	WG	3	058	3			2				1	1		8	
P113-SB03	–	–	N	1	P113-SB03-GW	6/16/16	1310	WG	6		3			2				1	1*		9	Only 2L for SVC
WDS-SB08	–	–	N	1	WDS-SB08-GW	6/17/16	1055	WG	3		3			4			2	1			10	*pH okay <2
WDS-SB15	–	–	N	1	WDS-SB15-GW	6/17/16	1100	WG	10		3			4			2	1			11	pH okay <2
FieldQC	–	–	TB	1	TB-GW-06171601	6/17/16	0800	WQ	3		3										12	Trip Blank**
FieldQC	–	–	TB	1	TB-GW-06161602	6/16/16	0810	WQ	3		3										13	Trip Blank**
WDSSB12	–	–	N	1	WDS-SB12-GW	6/17/16	1230	WG	3		3			4			2	1			14	Note Differ
WDS-SB13	–	–	N	1	WDS-SB13-GW	6/17/16	1205	WG	3		3			4			2	1			15	Sampling
																						Dates

	Date	Time		Date	Time
1. Relinquished By / Company: Amanda Martin AECOM	6/17/16	1500	1. Received By / Company: XFER TO FEDEX	6/17/16	1500
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: Rachel Dean	16 jun 16	1037

Comments

Shipment Method/Airbill No.: 7103 0202 5534

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

**** Pb only for P113 per sample blanks

** one cap cracked. RD2 18 June 16

Lot-10 2.4°C

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-03
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB10	–	–	N	1	WDS-SB10-GW	6/15/16	1545	WG	10	053	3			4			2	1				pH okay <2
P113-SB02	–	–	N	1	P113-SB02-GW	6/16/16	1220	WG	3		3											
WDS-SB01	–	–	N	1	WDS-SB01-GW	6/16/16	1420	WG	3		3											*
WDS-SB02	–	–	N	1	WDS-SB02-GW	6/16/16	1445	WG	3		3											
WDS-SB03	–	–	N	1	WDS-SB03-GW	6/16/16	1515	WG	3		3											
FieldQC	–	–	TB	1	TB-GW-061516-01	6/15/16	0000	WQ	3		3											Trip Blank**
FieldQC	–	–	TB	1	TB-GW-061616-01	6/16/16	0000	WQ	3		3											Trip Blank*

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time	1. Relinquished By / Company	Date	Time
Amanda Martin AECOM	6/17/16	0830	XFER TO FEDEX	6/17/16	0830			
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time	2. Relinquished By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time	3. Relinquished By / Company	Date	Time
			Rachel Clear	18 June 16	1037			

Comments

Shipment Method/Airbill No. 8103 0202 5589

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

* One vial with less than pea-sized bubble. RD2 18 June 16
** all vials with less than pea-sized bubble. RD2 18 June 16

#002 @ 3.9°C

160606031

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-04
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB03	-	-	N	1	WDS-SB03-GW	6/16/16	1515	WG	7	054				4			2	1				pH okay < 2

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time		
Amanda Martin AECOM	6/17/16	0930	XFER TO FEDEX	6/17/16	0930		
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time		
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time		
			Rachel Clear	18 Jun 16	1037		

Comments

Shipment Method/Airbill No.: 8103 0202 5578

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Avengers 1, 5.6°C

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-65
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
P113-SB02	-	-	N	1	P113-SB02-GW	6/16/16	1220	WG	5	055				4					1			pH okay <2
WDS-SB01	-	-	N	1	WDS-SB01-GW	6/16/16	1420	WG	7	055				4			2	1				pH okay <2

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/17/16	Time 0830	1. Received By / Company	XPER TO FEDEX	Date 6/17/16	Time 0930
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	Rachel Dean	Date 18 JUN 16	Time 1037

Comments

Shipment Method/Airbill No. 8105 0202 5567

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

GLORY 01, 3.4°C

1606031

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-06
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB02	-	-	N	1	WDS-SB02-GW	6/16/16	1445	WG	7	0560				4			2	1				pH okay <2

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/17/16	Time: 0930	1. Received By / Company: REFER TO FEDEX	Date: 6/17/16	Time: 0930
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: Rachel Dean	Date: 6/20/16	Time: 1037

Comments

Shipment Method/Airbill No.: 8103 0202 5554

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

NOOB, 4.1°C

1600631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-07
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
P113-SB01	—	—	N	1	P113-SB01-GW	6/16/16	1145	WG	057	3				2	*			1	**			Only 2L for SVOC
WDS-SB08	—	—	N	1	WDS-SB08-GW	6/17/16	1055	WG	057	7				4			2	1				pH okay <2
																						** pH okay <2
																						Note Different Sampling Dates

GW

1. Relinquished By / Company	Amanda Martin AECOM	Date 6/17/16	Time 1500	1. Received By / Company	XFER TO FEDEX	Date 6/17/16	Time 1500
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company		Date	Time	3. Received By / Company	Rachel Dear	Date 18Jun16	Time 1037

Comments

Shipment Method/Airbill No. 8103 0202 5545

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

* ME cap broke in transit. RD2 18Jun16
Sample discarded.

Big Blue 17, 4.1°C

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061717-08
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
P113-SB01	–	–	N	1	P113-SB01-GW	6/16/16	1145	WG	3	058	3											
P113-SB03	–	–	N	1	P113-SB03-GW	6/16/16	1310	WG	6		3			2				1*				Only 2L for SVO
WDS-SB08	–	–	N	1	WDS-SB08-GW	6/17/16	1055	WG	3		3											*pH okay <2
WDS-SB15	–	–	N	1	WDS-SB15-GW	6/17/16	1100	WG	10		3			4			2	1				pH okay <2
FieldQC	–	–	TB	1	TB-GW-06171601	6/17/16	0800	WQ	3		3											Trip Blank**
FieldQC	–	–	TB	1	TB-GW-06161602	6/16/16	0810	WQ	3		3											Trip Blank ***
WDS-SB12	–	–	N	1	WDS-SB12-GW	6/17/16	1230	WG	3		3											Note Different
WDS-SB13	–	–	N	1	WDS-SB13-GW	6/17/16	1205	WG	3	↓	3											Sampling
																						Dates

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/17/16	Time: 1500	1. Received By / Company: XPER TO FEDEX	Date: 6/17/16	Time: 1500
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: Rachel Dean	Date: 18JUN16	Time: 1037

Comments

Shipment Method/Airbill No: 1Z8 0202 55 534

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

** One cap cracked. RD2 18June16
*** two vial with very small air bubble RD2 18JUN16

Xcl-10, 2.4°C

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-09
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB12	—	—	N	1	WDS-SB12-GW	6/17/16	1230	WG	7	059				4			2	1				pH okay < 2

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
Amanda Martin AECOM	6/17/16	1500	XFER TO FEDEX	6/17/16	1500
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time
			Rachel Dear	18 June 16	1037

Comments

Shipment Method/Airbill No. 8030202 5523

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Big Blue 18, 5.2°C

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-10
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB13	–	–	N	1	WDS-SB13-GW	6/17/16	1205	GG	7	OGO				4			2	1				pH okay <2

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
Amartin AECOM	6/17/16	1520	XFER TO FEDEX	6/17/16	1520
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time
			Rachel Dean	18 June 16	1037

Comments

Shipment Method/Airbill No.: 816 0202 5572

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Big Blue 19, 40-58

1606631

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 060716-11
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
MW-H14-SB01	-	-	N	1	H14-SB01-GW	06/7/16	1300	WG	3	061						2		1				pH okay <2
MW-H14-SB03	-	-	N	1	H14-SB03-GW	↓	1330	WG	3							2		1				pH okay <2
MW-MP-SB03	-	-	N	1	MP-SB03-GW		1420	WG	11	↓	3			4			2			2		
FB	Field QC	-	-	TB	1	TB-GW-060716-02		0810	WQ	3		3*										Trip Blank

1. Relinquished By / Company	Date	Time	1. Received By / Company	XFER TO FEDEX	Date	Time
Amanda Martin AECOM	6/17/16	1745			6/17/16	1745
2. Relinquished By / Company	Date	Time	2. Received By / Company		Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Rachel Clear	Date 18JUN16	Time 1037

Comments: Dropped at Calverton NY FEDEX

Shipment Method/Airbill No.: 8105 0202 5501

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

#16-19

* one vial with small air bubble RDG 18JUN16

Cancelled due to temps: 16

Big Blue 16, 6.3 - 16.2°C

FedEx
TRK# 0215 8103 0202 5589

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CFAA

48150
MI-US
DTW

FID 552995 17JUN16 WSHA 539C

#053

Cooler ID:
#002

temperature:
3.9°C

CUSTODY SEALS
Date 6/17/16
Signature

CUSTODY SEALS
Date 6/17/16
Signature

FedEx
TRK# 0215 8103 0202 5578

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

X0 CFAA

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

#054

Cooler ID:

Avengers 1

temperature:

5.6°C

CUSTODY SEALS

Date 6/17/16

Signature

CUSTODY SEALS

Date 6/17/16

Signature

FedEx
TRK# 0215 8103 0202 5567

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

X0 CFAA

FID 552 ... MA 539C2/30BD/6A08

#055

Cooler ID:

GLORY01

temperature:

3.4°C

CUSTODY SEALS

Date 4/7/16

Signature

CUSTODY SEALS

Date 4/7/16

Signature

FedEx
TRK# 0215 8103 0202 5556

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

X0 CFAA

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

#C56

CUSTODY SEALS
Date 6/17/16
Signature

CUSTODY SEALS
Date 6/17/16
Signature

Cooler ID:
N00B
temperature
4.1°C

FedEx
TRK# 0215 8103 0202 5545

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

XO CFAA

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

#057

Cooler ID:

Big Blue 17

temperature:

4.1°C

CUSTODY SEALS

Date 6/17/16

Signature

CUSTODY SEALS

Date 6/17/16

Signature

FedEx
TRK# 0215 8103 0202 5534

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

X0 CFAA

FID 552995 17JUN16 [illegible]A 539C2/30BD/6A08

0588

CUSTODY SEALS
Date 6/17/16
Signature [illegible]

CUSTODY SEALS
Date 6/17/16
Signature [illegible]

Cooler ID:
L2-10
temperature
2.4°C

FedEx
TRK# 0215 8103 0202 5523

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 CFAA

48150
MI-US
DTW

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

WDS

WDS-SB12-GW

#059

Cooler ID
Big Blue -18

temperature
5.2°C

CUSTODY SEALS
Date
Signature

CUSTODY SEALS
Date 6/17/16
Signature

FedEx
TRK# 0215 8103 0202 5512

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CFAA

48150
MI-US
DTW

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

No client # on cooler
Per FedEx label
#060

Cooler ID:
BigBlue 19

temperature:
no blank
4.0 - 5.8

CUSTODY SEALS
Date 6/17/16
Signature Chris Wiens

CUSTODY SEALS
Date 6/17/16
Signature Chris Wiens

ORIGIN ID:WSHA (703) 682-4900
AECOM GCP

3101 WILSON BLVD STE 900

ARLINGTON, VA 222014446
UNITED STATES US

SHIP DATE: 17JUN16
ACTWGT: 64.00 LB
CAD: /POS1704
DIMS: 24x13x14 IN

BILL SENDER

TO KATHY GRIFFIN
RTI LABORATOIES
31628 GLENDALE ST

LIVONIA MI 48150
(734) 422-8000 REF:
INV:
PO: DEPT:

FedEx Express

J181016020501uv

TRK# 0215 8103 0202 5501

SATURDAY 12:00P
PRIORITY OVERNIGHT
DSR
48150
MI-US DTW

XO CFAA

#061

CUSTODY SEALS
Date
Signature

CUSTODY SEALS
Date
Signature

Cooler ID:
Big Blue 16

Temperature on ice, mostly melted

H14 SB01-GW : 9.3 - 13.3 °C MP-SB03-GW: 6.3 - 15.8 °C
H14 SB03-GW 9.1 - 11.5 °C Trip Blanks 15.8 - 16.2 °C

RD2
6-18-1

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606652

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606652-001A	TB-SO-061616-01		6/16/2016 8:05 AM	6/18/2016 10:37 AM	Soil
1606652-001B	TB-SO-061616-01		6/16/2016 8:05 AM	6/18/2016 10:37 AM	Soil
1606652-001C	TB-SO-061616-01		6/16/2016 8:05 AM	6/18/2016 10:37 AM	Soil
1606652-002A	WDS-SB18-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-002B	WDS-SB18-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-002C	WDS-SB18-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-002D	WDS-SB18-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-002E	WDS-SB18-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-002F	WDS-SB18-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-002G	WDS-SB18-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-003A	WDS-SB19-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-003B	WDS-SB19-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-003C	WDS-SB19-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-003D	WDS-SB19-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-003E	WDS-SB19-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-003F	WDS-SB19-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-003G	WDS-SB19-12		6/16/2016 8:30 AM	6/18/2016 10:37 AM	Soil
1606652-004A	201-SB01-10		6/16/2016 9:15 AM	6/18/2016 10:37 AM	Soil
1606652-004B	201-SB01-10		6/16/2016 9:15 AM	6/18/2016 10:37 AM	Soil
1606652-004C	201-SB01-10		6/16/2016 9:15 AM	6/18/2016 10:37 AM	Soil
1606652-004D	201-SB01-10		6/16/2016 9:15 AM	6/18/2016 10:37 AM	Soil
1606652-004E	201-SB01-10		6/16/2016 9:15 AM	6/18/2016 10:37 AM	Soil
1606652-004F	201-SB01-10		6/16/2016 9:15 AM	6/18/2016 10:37 AM	Soil
1606652-004G	201-SB01-10		6/16/2016 9:15 AM	6/18/2016 10:37 AM	Soil
1606652-005A	201-SB01-25		6/16/2016 9:20 AM	6/18/2016 10:37 AM	Soil
1606652-005B	201-SB01-25		6/16/2016 9:20 AM	6/18/2016 10:37 AM	Soil
1606652-005C	201-SB01-25		6/16/2016 9:20 AM	6/18/2016 10:37 AM	Soil
1606652-005D	201-SB01-25		6/16/2016 9:20 AM	6/18/2016 10:37 AM	Soil
1606652-005E	201-SB01-25		6/16/2016 9:20 AM	6/18/2016 10:37 AM	Soil
1606652-005F	201-SB01-25		6/16/2016 9:20 AM	6/18/2016 10:37 AM	Soil
1606652-005G	201-SB01-25		6/16/2016 9:20 AM	6/18/2016 10:37 AM	Soil
1606652-006A	203-SB01-10		6/16/2016 10:10 AM	6/18/2016 10:37 AM	Soil
1606652-006B	203-SB01-10		6/16/2016 10:10 AM	6/18/2016 10:37 AM	Soil
1606652-006C	203-SB01-10		6/16/2016 10:10 AM	6/18/2016 10:37 AM	Soil
1606652-006D	203-SB01-10		6/16/2016 10:10 AM	6/18/2016 10:37 AM	Soil
1606652-006E	203-SB01-10		6/16/2016 10:10 AM	6/18/2016 10:37 AM	Soil
1606652-006F	203-SB01-10		6/16/2016 10:10 AM	6/18/2016 10:37 AM	Soil
1606652-006G	203-SB01-10		6/16/2016 10:10 AM	6/18/2016 10:37 AM	Soil
1606652-007A	203-SB01-12		6/16/2016 10:45 AM	6/18/2016 10:37 AM	Soil
1606652-007B	203-SB01-12		6/16/2016 10:45 AM	6/18/2016 10:37 AM	Soil
1606652-007C	203-SB01-12		6/16/2016 10:45 AM	6/18/2016 10:37 AM	Soil
1606652-007D	203-SB01-12		6/16/2016 10:45 AM	6/18/2016 10:37 AM	Soil
1606652-007E	203-SB01-12		6/16/2016 10:45 AM	6/18/2016 10:37 AM	Soil
1606652-007F	203-SB01-12		6/16/2016 10:45 AM	6/18/2016 10:37 AM	Soil
1606652-007G	203-SB01-12		6/16/2016 10:45 AM	6/18/2016 10:37 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606652-008A	203-SB02-02		6/16/2016 11:15 AM	6/18/2016 10:37 AM	Soil
1606652-008B	203-SB02-02		6/16/2016 11:15 AM	6/18/2016 10:37 AM	Soil
1606652-008C	203-SB02-02		6/16/2016 11:15 AM	6/18/2016 10:37 AM	Soil
1606652-008D	203-SB02-02		6/16/2016 11:15 AM	6/18/2016 10:37 AM	Soil
1606652-008E	203-SB02-02		6/16/2016 11:15 AM	6/18/2016 10:37 AM	Soil
1606652-008F	203-SB02-02		6/16/2016 11:15 AM	6/18/2016 10:37 AM	Soil
1606652-008G	203-SB02-02		6/16/2016 11:15 AM	6/18/2016 10:37 AM	Soil
1606652-009A	203-SB03-04		6/16/2016 11:40 AM	6/18/2016 10:37 AM	Soil
1606652-009B	203-SB03-04		6/16/2016 11:40 AM	6/18/2016 10:37 AM	Soil
1606652-009C	203-SB03-04		6/16/2016 11:40 AM	6/18/2016 10:37 AM	Soil
1606652-009D	203-SB03-04		6/16/2016 11:40 AM	6/18/2016 10:37 AM	Soil
1606652-009E	203-SB03-04		6/16/2016 11:40 AM	6/18/2016 10:37 AM	Soil
1606652-009F	203-SB03-04		6/16/2016 11:40 AM	6/18/2016 10:37 AM	Soil
1606652-009G	203-SB03-04		6/16/2016 11:40 AM	6/18/2016 10:37 AM	Soil
1606652-010A	203-SB03-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-010B	203-SB03-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-010C	203-SB03-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-010D	203-SB03-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-010E	203-SB03-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-010F	203-SB03-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-010G	203-SB03-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-011A	203-SB04-11		6/16/2016 10:55 AM	6/18/2016 10:37 AM	Soil
1606652-011B	203-SB04-11		6/16/2016 10:55 AM	6/18/2016 10:37 AM	Soil
1606652-011C	203-SB04-11		6/16/2016 10:55 AM	6/18/2016 10:37 AM	Soil
1606652-011D	203-SB04-11		6/16/2016 10:55 AM	6/18/2016 10:37 AM	Soil
1606652-011E	203-SB04-11		6/16/2016 10:55 AM	6/18/2016 10:37 AM	Soil
1606652-011F	203-SB04-11		6/16/2016 10:55 AM	6/18/2016 10:37 AM	Soil
1606652-011G	203-SB04-11		6/16/2016 10:55 AM	6/18/2016 10:37 AM	Soil
1606652-012A	203-SB04-14		6/16/2016 11:10 AM	6/18/2016 10:37 AM	Soil
1606652-012B	203-SB04-14		6/16/2016 11:10 AM	6/18/2016 10:37 AM	Soil
1606652-012C	203-SB04-14		6/16/2016 11:10 AM	6/18/2016 10:37 AM	Soil
1606652-012D	203-SB04-14		6/16/2016 11:10 AM	6/18/2016 10:37 AM	Soil
1606652-012E	203-SB04-14		6/16/2016 11:10 AM	6/18/2016 10:37 AM	Soil
1606652-012F	203-SB04-14		6/16/2016 11:10 AM	6/18/2016 10:37 AM	Soil
1606652-012G	203-SB04-14		6/16/2016 11:10 AM	6/18/2016 10:37 AM	Soil
1606652-013A	203-SB05-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-013B	203-SB05-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-013C	203-SB05-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-013D	203-SB05-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-013E	203-SB05-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-013F	203-SB05-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-013G	203-SB05-05		6/16/2016 11:45 AM	6/18/2016 10:37 AM	Soil
1606652-014A	203-SB05-21		6/16/2016 12:00 PM	6/18/2016 10:37 AM	Soil
1606652-014B	203-SB05-21		6/16/2016 12:00 PM	6/18/2016 10:37 AM	Soil
1606652-014C	203-SB05-21		6/16/2016 12:00 PM	6/18/2016 10:37 AM	Soil

RTI Laboratories - Workorder Sample Summary

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606652-014D	203-SB05-21		6/16/2016 12:00 PM	6/18/2016 10:37 AM	Soil
1606652-014E	203-SB05-21		6/16/2016 12:00 PM	6/18/2016 10:37 AM	Soil
1606652-014F	203-SB05-21		6/16/2016 12:00 PM	6/18/2016 10:37 AM	Soil
1606652-014G	203-SB05-21		6/16/2016 12:00 PM	6/18/2016 10:37 AM	Soil
1606652-015A	H17-SB01-05		6/16/2016 3:10 PM	6/18/2016 10:37 AM	Soil
1606652-015B	H17-SB01-05		6/16/2016 3:10 PM	6/18/2016 10:37 AM	Soil
1606652-015C	H17-SB01-05		6/16/2016 3:10 PM	6/18/2016 10:37 AM	Soil
1606652-015D	H17-SB01-05		6/16/2016 3:10 PM	6/18/2016 10:37 AM	Soil
1606652-015E	H17-SB01-05		6/16/2016 3:10 PM	6/18/2016 10:37 AM	Soil
1606652-015F	H17-SB01-05		6/16/2016 3:10 PM	6/18/2016 10:37 AM	Soil
1606652-015G	H17-SB01-05		6/16/2016 3:10 PM	6/18/2016 10:37 AM	Soil
1606652-016A	H17-SB02-05		6/16/2016 2:40 PM	6/18/2016 10:37 AM	Soil
1606652-016B	H17-SB02-05		6/16/2016 2:40 PM	6/18/2016 10:37 AM	Soil
1606652-016C	H17-SB02-05		6/16/2016 2:40 PM	6/18/2016 10:37 AM	Soil
1606652-016D	H17-SB02-05		6/16/2016 2:40 PM	6/18/2016 10:37 AM	Soil
1606652-016E	H17-SB02-05		6/16/2016 2:40 PM	6/18/2016 10:37 AM	Soil
1606652-016F	H17-SB02-05		6/16/2016 2:40 PM	6/18/2016 10:37 AM	Soil
1606652-016G	H17-SB02-05		6/16/2016 2:40 PM	6/18/2016 10:37 AM	Soil
1606652-017A	H17-SB03-05		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Soil
1606652-017B	H17-SB03-05		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Soil
1606652-017C	H17-SB03-05		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Soil
1606652-017D	H17-SB03-05		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Soil
1606652-017E	H17-SB03-05		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Soil
1606652-017F	H17-SB03-05		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Soil
1606652-017G	H17-SB03-05		6/16/2016 2:45 PM	6/18/2016 10:37 AM	Soil

RTI Laboratories - Case Narrative

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Analytical Report revised 8/12/2016: Compound 3,3´-Dichlorobenzidine was missing in the SVOC analysis. Also Benzoic Acid was missing in the QC Summary report for the LCS, MS and MSD. Benzoic Acid is properly populated in the QC Summary. Removed two compounds, 1,2,4-Trichlorobenzene and 1,2-Dichlorobenzene from the VOC 8260 list for all samples but 1606652-014C.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Percent Moisture - ASTM-D2216
- Metals, ICP/OES - 6010C
- Metals, ICP/MS - 6020A-TL
- Polychlorinated Biphenyls - 8082A
- Volatile Organic Compounds - 8260C-ME
- Volatile Organic Compounds - 8260C
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM

Volatile Organic Compounds (SW-8260C):
Sample 1606652-014A result was over calibration for the low level volatile organic compounds analyses for Ethylbenzene and m,p-Xylene. Data not reported for Ethylbenzene and total Xylene for the sample in this analysis.

Analytical Comments for Test SW_6010S, Analytical Run No 87541, Batch ID 40445:
Sample 1606652-015FMS: Recoveries for several analytes exceeded control limits.
Sample 1606652-015FMSD: Recoveries for several analytes exceeded control limits. RPD results for Calcium exceeded control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87746, Batch ID 40430:
Sample 1606652-005FMS: Recoveries for Aluminum, Calcium, Iron, Magnesium, Manganese and Potassium exceeded control limits. Suspected matrix interference for Calcium and Magnesium.
Sample 1606652-005FMSD: Recoveries for Aluminum, Calcium, Iron, Magnesium, Manganese and Potassium exceeded control limits. Suspected matrix interference for Calcium and Magnesium.

Analytical Comments for Test SW_6010S, Analytical Run No 87697, Batch ID 40406:
Sample 1606605-003B MS/MSD: Spike recoveries for several analytes were outside the control limits. RPD for Selenium was outside the control limits.
Sample 1606605-003B MS: Spike recoveries for Chromium and Zinc were outside the control limits.
Sample 1606605-003B MSD: Spike recovery for Zinc was outside the control limits.

Analytical Comments for Test SW_6010S, Analytical Run No 87852, Batch ID 40481:
Samples 1606652-014F MS/MSD: Spike recoveries for several analytes were outside the control limits.

Analytical Comments for Test SW_8082S, Analytical Run No 87007, Batch ID 40257:
Sample 1606652-015E: Tetrachloro-m-xylene surrogate exceeded control limit.
Sample 1606652-016E: Decachlorobiphenyl surrogate exceeded control limit.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 86936, Batch ID R86936:
Sample VOA10 ICV 062316: Acetone and vinyl acetate exceed limits.
Sample VOA10 MBLK 06231: Methylene Chloride > ½ LOQ. Surrogate recovery for Toluene-d8 exceeded QC limit.
Sample VOA10 LCS 062316: Cis-1,3-dicloropropene, Methylene Chloride, and Styrene exceed limits.
Sample VOA10 LCSD 06231: 2-Butanone, Cis-1,3-dichloropropene and trans-1,3-dichloropropene exceed limits. RPD for 2-Butanone was outside the control limits.
Sample 1606652-002A: Surrogate recovery for Toluene-d8 exceeded QC limit.

Analytical Comments for Test SW_8260S-LL, Analytical Run No 87053, Batch ID R87053:
Sample VOA11B ICV 062916: 2-Hexanone, chloromethane, Dichlorodifluoromethane and Vinyl acetate exceed limits.
Sample VOA11B MBLK 0629: Compounds 2-Hexanone and Chloromethane were detected > ½ LOQ.
Sample VOA11B LCS 06291: 1,2-Dibromo-3-chloropropane, acetone, chloromethane, 2-butanone and 2-hexanone exceed limits.
Sample VOA11B LCSD 0629: 1,2-Dibromo-3-chloropropane, acetone, methyl acetate, Methylene chloride, 2-butanone and 2-hexanone exceed limits.

Sample 1606652-005AMS: m,p-Xylene, methyl acetate, styrene, vinyl acetate, 2-butanone and 2-hexanone exceed limits.
Sample 1606652-005AMSD: Ethylbenzene, m,p-Xylene, methyl acetate, styrene, vinyl acetate, 2-butanone and 2-hexanone exceed limits. RPD for 1,2-Dibromo-3-chloropropane were outside the control limits.
Sample 1606652-014A: 4-Bromofluorobenzene exceeded QC limits.
Sample 1606652-015AMS: Several compounds exceeded QC limits due sample matrix interferences.
Sample 1606652-015AMSD: Several compounds exceeded QC limits due sample matrix interferences. RPD for several compounds were outside the control limits.
Sample VOA11B CCVE 062916: 2-hexanone exceeds the 50% criteria.

Analytical Comments for Test SW_8260S, Analytical Run No 87059, Batch ID R87059:
Sample 1606652-014C: Surrogate recovery for 4-Bromofluorobenzene was outside the control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87769, Batch ID 40266:
Sample LCS-40266: LCS results for 2,4-Dinitrophenol and Pentachlorophenol exceeded QC limits.
Samples 1606652-005DMS/MSD: 2,4-Dinitrophenol exceeded QC limits. RPD for 2,4-Dinitrphenol was outside the control limits.
Sample 1606652-008D: Surrogate recovery for 2-Fluorobiphenyl was outside the control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87769, Batch ID R87769:
Sample ICV S8 050216: Benzoic acid exceeded QC limits
Sample CCV S8 063016: CCV results for 2,4-Dinitrophenol, Benzoic acid, Hexachlorobutadiene, N-Nitrosodimethylamine and Pentachlorophenol exceeded QC limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87668, Batch ID R87668:
Sample CCV SIM S8 072316: CCV results for 1-Methylnaphthalene exceed the 20% criteria.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87753, Batch ID 40291:
Sample 1606652-014D: Surrogate recoveries for 2-Fluorbiphenyl, Nitrobenzene-d5, and Terphenyl -d14 were outside the control limits.
Sample 1606652-014D MS/MSD: Spike recoveries, Surrogate recoveries and RPDs for several compounds were outside the control limits.

Analytical Comments for Test SW_8270S-SIM, Analytical Run No 87753, Batch ID R87753:
Sample CCV 072616 S7: CCV results for 1-Methylnaphthalene exceed the 20% criteria.

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 8:05:00 AM
Project: Camp Hero
Lab ID: 1606652-001 **Matrix:** Soil
Client Sample ID: TB-SO-061616-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00060	U	0.00029	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
1,1,1-Trichloroethane	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
1,1,2,2-Tetrachloroethane	0.00060	U	0.00053	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
1,1,2-Trichloroethane	0.00060	U	0.00039	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
1,1-Dichloroethane	0.00060	U	0.00015	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
1,1-Dichloroethene	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
1,2,3-Trichloropropane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
1,2-Dibromo-3-chloropropane	0.0020	UQ	0.0014	0.0020	0.0050	mg/Kg	1	6/29/2016 7:27 PM
1,2-Dibromoethane	0.00060	U	0.00045	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
1,2-Dichloroethane	0.00060	U	0.00014	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
1,2-Dichloropropane	0.00060	U	0.00028	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
2-Butanone [MEK]	0.010	UQ	0.0059	0.010	0.020	mg/Kg	1	6/29/2016 7:27 PM
2-Hexanone	0.033	BQZ	0.00063	0.0020	0.0050	mg/Kg	1	6/29/2016 7:27 PM
Acetone	0.0020	UQ	0.00091	0.0020	0.010	mg/Kg	1	6/29/2016 7:27 PM
Benzene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Bromodichloromethane	0.00060	U	0.00020	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Bromoform	0.00060	U	0.00033	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Carbon disulfide	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Carbon tetrachloride	0.00060	U	0.00021	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Chlorobenzene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Chlorodibromomethane	0.00060	U	0.00035	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Chloroethane	0.0010	U	0.00076	0.0010	0.0020	mg/Kg	1	6/29/2016 7:27 PM
Chloroform	0.00060	U	0.00048	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Chloromethane	0.0016	BQZ	0.00034	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
cis-1,2-Dichloroethene	0.00060	U	0.00056	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
cis-1,3-Dichloropropene	0.00060	U	0.00016	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Dichlorodifluoromethane [Freon-12]	0.00060	UZ	0.00038	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Ethylbenzene	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Methylene chloride	0.0096	Q	0.0011	0.0020	0.0050	mg/Kg	1	6/29/2016 7:27 PM
Styrene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Tetrachloroethene	0.00060	U	0.00032	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Toluene	0.00060	U	0.00027	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
trans-1,2-Dichloroethene	0.00060	U	0.00019	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
trans-1,3-Dichloropropene	0.00060	U	0.00023	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Trichloroethene	0.00060	U	0.00038	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Trichlorofluoromethane [Freon-11]	0.00060	U	0.00022	0.00060	0.0010	mg/Kg	1	6/29/2016 7:27 PM
Vinyl acetate	0.00060	UZ	0.00047	0.00060	0.0050	mg/Kg	1	6/29/2016 7:27 PM
Vinyl chloride	0.00060	U	0.00031	0.00060	0.00080	mg/Kg	1	6/29/2016 7:27 PM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg	1	6/29/2016 7:27 PM
Surr: 4-Bromofluorobenzene	86.4			79-119		%Rec	1	6/29/2016 7:27 PM
Surr: Dibromofluoromethane	100			78-119		%Rec	1	6/29/2016 7:27 PM
Surr: Toluene-d8	88.3			85-116		%Rec	1	6/29/2016 7:27 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 8:30:00 AM
Project:	Camp Hero		
Lab ID:	1606652-002	**Matrix:**	Soil
Client Sample ID:	WDS-SB18-12		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0070	U	0.0032	0.0070	0.035	mg/Kg-dry	1	7/21/2016 10:38 AM
Aroclor 1221	0.0070	U	0.0031	0.0070	0.035	mg/Kg-dry	1	7/21/2016 10:38 AM
Aroclor 1232	0.0070	U	0.0047	0.0070	0.035	mg/Kg-dry	1	7/21/2016 10:38 AM
Aroclor 1242	0.0070	U	0.0039	0.0070	0.035	mg/Kg-dry	1	7/21/2016 10:38 AM
Aroclor 1248	0.0070	U	0.0037	0.0070	0.035	mg/Kg-dry	1	7/21/2016 10:38 AM
Aroclor 1254	0.0070	U	0.0044	0.0070	0.035	mg/Kg-dry	1	7/21/2016 10:38 AM
Aroclor 1260	0.0070	U	0.0031	0.0070	0.035	mg/Kg-dry	1	7/21/2016 10:38 AM
Aroclor 1262	0.0070	U	0.0031	0.0070	0.035	mg/Kg-dry	1	7/21/2016 10:38 AM
Aroclor 1268	0.0070	U	0.0026	0.0070	0.035	mg/Kg-dry	1	7/21/2016 10:38 AM
Surr: Tetrachloro-m-xylene	79.4			44-130		%Rec	1	7/21/2016 10:38 AM
Surr: Decachlorobiphenyl	97.4			60-125		%Rec	1	7/21/2016 10:38 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	7,200		53	140	360	mg/Kg-dry	100	7/28/2016 2:38 PM
Antimony	2.4		0.27	0.36	0.71	mg/Kg-dry	1	7/28/2016 1:39 PM
Arsenic	1.2	J	0.52	0.71	1.4	mg/Kg-dry	1	7/28/2016 1:39 PM
Barium	32		0.21	3.6	7.1	mg/Kg-dry	1	7/28/2016 1:39 PM
Beryllium	0.067	J	0.0090	0.036	0.18	mg/Kg-dry	1	7/28/2016 1:39 PM
Cadmium	0.025	J	0.024	0.036	0.18	mg/Kg-dry	1	7/28/2016 1:39 PM
Calcium	490		2.1	7.1	36	mg/Kg-dry	1	7/28/2016 1:39 PM
Chromium	10		0.059	0.29	0.36	mg/Kg-dry	1	8/2/2016 1:11 PM
Cobalt	2.3		0.064	0.18	0.71	mg/Kg-dry	1	7/28/2016 1:39 PM
Copper	26		0.30	0.71	3.6	mg/Kg-dry	1	7/28/2016 1:39 PM
Iron	9,900		220	360	1,100	mg/Kg-dry	100	7/28/2016 2:38 PM
Lead	1.9	J	0.44	0.71	3.6	mg/Kg-dry	1	7/28/2016 1:39 PM
Magnesium	1,500		2.5	3.6	36	mg/Kg-dry	1	7/28/2016 1:39 PM
Manganese	130		0.13	0.18	0.71	mg/Kg-dry	1	7/28/2016 1:39 PM
Nickel	5.4		0.20	0.71	3.6	mg/Kg-dry	1	7/28/2016 1:39 PM
Potassium	1,100		1.7	7.1	14	mg/Kg-dry	1	7/28/2016 1:39 PM
Selenium	1.1	U	0.83	1.1	1.4	mg/Kg-dry	1	7/28/2016 1:39 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	7/28/2016 1:39 PM
Sodium	73		1.5	3.6	36	mg/Kg-dry	1	7/28/2016 1:39 PM
Vanadium	15		0.090	0.71	1.8	mg/Kg-dry	1	7/28/2016 1:39 PM
Zinc	12		0.28	0.36	3.6	mg/Kg-dry	1	8/2/2016 1:11 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.099	J	0.035	0.036	0.14	mg/Kg-dry	10	7/15/2016 2:15 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 8:30:00 AM
Project: Camp Hero
Lab ID: 1606652-002 **Matrix:** Soil
Client Sample ID: WDS-SB18-12

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
2,4-Dichlorophenol	0.090	U	0.031	0.090	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
2,4-Dimethyl phenol	0.090	U	0.035	0.090	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
2,4-Dinitrophenol	0.18	UQ	0.10	0.18	0.90	mg/Kg-dry	1	7/1/2016 2:09 AM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
2-Chlorophenol	0.090	U	0.038	0.090	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
2-Methylphenol (o-Cresol)	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
2-Nitroaniline	0.018	U	0.0088	0.018	0.35	mg/Kg-dry	1	7/1/2016 2:09 AM
2-Nitrophenol	0.090	U	0.045	0.090	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
3,3´-Dichlorobenzidine	0.72	UQ	0.46	0.72	1.1	mg/Kg-dry	1	7/1/2016 2:09 AM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	7/1/2016 2:09 AM
3/4-Methylphenol [m/p-Cresol]	0.090	U	0.064	0.090	0.35	mg/Kg-dry	1	7/1/2016 2:09 AM
4,6-Dinitro-2-methylphenol	0.090	U	0.052	0.090	0.35	mg/Kg-dry	1	7/1/2016 2:09 AM
4-Bromophenyl phenyl ether	0.090	U	0.046	0.090	0.22	mg/Kg-dry	1	7/1/2016 2:09 AM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
4-Chloroaniline [p-Chloroaniline]	0.090	U	0.027	0.090	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
4-Nitroaniline	0.090	U	0.026	0.090	0.35	mg/Kg-dry	1	7/1/2016 2:09 AM
4-Nitrophenol	0.36	U	0.26	0.36	0.90	mg/Kg-dry	1	7/1/2016 2:09 AM
Benzoic acid	0.36	UY QZ	0.15	0.36	1.1	mg/Kg-dry	1	7/1/2016 2:09 AM
Benzyl alcohol	0.018	U	0.0087	0.018	0.71	mg/Kg-dry	1	7/1/2016 2:09 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0082	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Hexachlorobutadiene	0.018	UY	0.016	0.018	0.054	mg/Kg-dry	1	7/1/2016 2:09 AM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
N-Nitrosodimethylamine	0.018	UY	0.0088	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
N-Nitrosodiphenylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Pentachlorophenol	0.090	UY Q	0.068	0.090	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Phenol	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/1/2016 2:09 AM
Surr: 2,4,6-Tribromophenol	44.6			39-132		%Rec	1	7/1/2016 2:09 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 8:30:00 AM
Project: Camp Hero
Lab ID: 1606652-002 **Matrix:** Soil
Client Sample ID: WDS-SB18-12

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	54.4			44-115		%Rec	1	7/1/2016 2:09 AM
Surr: 2-Fluorophenol	42.4			35-115		%Rec	1	7/1/2016 2:09 AM
Surr: Nitrobenzene-d5	54.0			37-122		%Rec	1	7/1/2016 2:09 AM
Surr: Phenol-d5	43.0			33-122		%Rec	1	7/1/2016 2:09 AM
Surr: Terphenyl-d14	58.8			54-127		%Rec	1	7/1/2016 2:09 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0048	Y	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
2-Methylnaphthalene	0.0054		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Acenaphthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Acenaphthylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Benzo(a)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Benzo(a)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Benzo(b)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Benzo(k)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Chrysene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Fluorene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Indeno(1,2,3-cd)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Naphthalene	0.0022		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Phenanthrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 5:34 PM
Surr: 2-Fluorobiphenyl	79.8			46-115		%Rec	3	7/26/2016 5:34 PM
Surr: Nitrobenzene-d5	84.6			44-125		%Rec	3	7/26/2016 5:34 PM
Surr: Terphenyl-d14	87.1			58-133		%Rec	3	7/26/2016 5:34 PM
TCL for Low Level Soil			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.00053	U	0.00026	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
1,1,1-Trichloroethane	0.00053	U	0.00019	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
1,1,2,2-Tetrachloroethane	0.00053	U	0.00047	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
1,1,2-Trichloroethane	0.00053	U	0.00035	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
1,1-Dichloroethane	0.00053	U	0.00013	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
1,1-Dichloroethene	0.00053	U	0.00018	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
1,2,3-Trichloropropane	0.00053	U	0.00031	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
1,2-Dibromo-3-chloropropane	0.0018	U	0.0012	0.0018	0.0044	mg/Kg-dry	0.82	6/23/2016 4:03 PM
1,2-Dibromoethane	0.00053	U	0.00040	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
1,2-Dichloroethane	0.00053	U	0.00012	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
1,2-Dichloropropane	0.00053	U	0.00025	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
2-Butanone [MEK]	0.0089	UQ	0.0053	0.0089	0.018	mg/Kg-dry	0.82	6/23/2016 4:03 PM
2-Hexanone	0.0018	U	0.00056	0.0018	0.0044	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Acetone	0.0020	JZ	0.00081	0.0018	0.0089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Benzene	0.00053	U	0.00024	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 8:30:00 AM
Project:	Camp Hero		
Lab ID:	1606652-002	**Matrix:**	Soil
Client Sample ID:	WDS-SB18-12		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.00053	U	0.00018	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Bromoform	0.00053	U	0.00029	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Carbon disulfide	0.00053	U	0.00017	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Carbon tetrachloride	0.00053	U	0.00019	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Chlorobenzene	0.00053	U	0.00017	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Chlorodibromomethane	0.00053	U	0.00031	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Chloroethane	0.00089	U	0.00067	0.00089	0.0018	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Chloroform	0.00053	U	0.00042	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Chloromethane	0.00053	U	0.00031	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
cis-1,2-Dichloroethene	0.00053	U	0.00050	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
cis-1,3-Dichloropropene	0.00053	UQ	0.00014	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Dichlorodifluoromethane [Freon-12]	0.00053	U	0.00034	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Ethylbenzene	0.00053	U	0.00020	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Methylene chloride	0.0018	UBQ	0.00094	0.0018	0.0044	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Styrene	0.00053	UQ	0.00020	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Tetrachloroethene	0.00053	U	0.00029	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Toluene	0.00053	U	0.00024	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
trans-1,2-Dichloroethene	0.00053	U	0.00017	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
trans-1,3-Dichloropropene	0.00053	UQ	0.00020	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Trichloroethene	0.00053	U	0.00034	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Trichlorofluoromethane [Freon-11]	0.00053	U	0.00020	0.00053	0.00089	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Vinyl acetate	0.00053	UZ	0.00042	0.00053	0.0044	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Vinyl chloride	0.00053	U	0.00027	0.00053	0.00071	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Xylene (Total)	0.0016	U	0.00040	0.0016	0.0027	mg/Kg-dry	0.82	6/23/2016 4:03 PM
Surr: 4-Bromofluorobenzene	90.8			79-119		%Rec	0.82	6/23/2016 4:03 PM
Surr: Dibromofluoromethane	91.5			78-119		%Rec	0.82	6/23/2016 4:03 PM
Surr: Toluene-d8	84.8	Q		85-116		%Rec	0.82	6/23/2016 4:03 PM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	7.7	1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 8:30:00 AM
Project:	Camp Hero		
Lab ID:	1606652-003	**Matrix:**	Soil
Client Sample ID:	WDS-SB19-12		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/24/2016 9:57 PM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/24/2016 9:57 PM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/24/2016 9:57 PM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	7/24/2016 9:57 PM
Aroclor 1248	0.0073	U	0.0038	0.0073	0.036	mg/Kg-dry	1	7/24/2016 9:57 PM
Aroclor 1254	0.0073	U	0.0046	0.0073	0.036	mg/Kg-dry	1	7/24/2016 9:57 PM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/24/2016 9:57 PM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/24/2016 9:57 PM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/24/2016 9:57 PM
Surr: Tetrachloro-m-xylene	82.4			44-130		%Rec	1	7/24/2016 9:57 PM
Surr: Decachlorobiphenyl	89.0			60-125		%Rec	1	7/24/2016 9:57 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	2,900		55	150	370	mg/Kg-dry	100	7/28/2016 2:40 PM
Antimony	1.8		0.28	0.37	0.74	mg/Kg-dry	1	7/28/2016 1:41 PM
Arsenic	0.95	J	0.53	0.74	1.5	mg/Kg-dry	1	7/28/2016 1:41 PM
Barium	9.9		0.22	3.7	7.4	mg/Kg-dry	1	7/28/2016 1:41 PM
Beryllium	0.025	J	0.0093	0.037	0.18	mg/Kg-dry	1	7/28/2016 1:41 PM
Cadmium	0.037	U	0.024	0.037	0.18	mg/Kg-dry	1	7/28/2016 1:41 PM
Calcium	480		2.2	7.4	37	mg/Kg-dry	1	7/28/2016 1:41 PM
Chromium	4.8		0.061	0.29	0.37	mg/Kg-dry	1	8/2/2016 1:13 PM
Cobalt	1.8		0.066	0.18	0.74	mg/Kg-dry	1	7/28/2016 1:41 PM
Copper	13		0.31	0.74	3.7	mg/Kg-dry	1	7/28/2016 1:41 PM
Iron	5,300		230	370	1,100	mg/Kg-dry	100	7/28/2016 2:40 PM
Lead	0.61	J	0.46	0.74	3.7	mg/Kg-dry	1	7/28/2016 1:41 PM
Magnesium	680		2.6	3.7	37	mg/Kg-dry	1	7/28/2016 1:41 PM
Manganese	81		0.14	0.18	0.74	mg/Kg-dry	1	7/28/2016 1:41 PM
Nickel	2.2	J	0.21	0.74	3.7	mg/Kg-dry	1	7/28/2016 1:41 PM
Potassium	430		1.7	7.4	15	mg/Kg-dry	1	7/28/2016 1:41 PM
Selenium	1.1	U	0.86	1.1	1.5	mg/Kg-dry	1	7/28/2016 1:41 PM
Silver	0.18	U	0.060	0.18	0.74	mg/Kg-dry	1	7/28/2016 1:41 PM
Sodium	64		1.5	3.7	37	mg/Kg-dry	1	7/28/2016 1:41 PM
Vanadium	7.3		0.093	0.74	1.8	mg/Kg-dry	1	7/28/2016 1:41 PM
Zinc	5.6		0.28	0.37	3.7	mg/Kg-dry	1	8/2/2016 1:13 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.036	U	0.035	0.036	0.15	mg/Kg-dry	10	7/15/2016 2:16 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
1,2-Dichlorobenzene	0.018	U	0.0079	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
1,3-Dichlorobenzene	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
1,4-Dichlorobenzene	0.018	U	0.0059	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 8:30:00 AM
Project: Camp Hero
Lab ID: 1606652-003 **Matrix:** Soil
Client Sample ID: WDS-SB19-12

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
2,4-Dichlorophenol	0.091	U	0.031	0.091	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
2,4-Dimethyl phenol	0.091	U	0.035	0.091	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
2,4-Dinitrophenol	0.18	UQ	0.10	0.18	0.91	mg/Kg-dry	1	7/1/2016 2:34 AM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
2-Chlorophenol	0.091	U	0.038	0.091	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
2-Methylphenol (o-Cresol)	0.091	U	0.039	0.091	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
2-Nitroaniline	0.018	U	0.0089	0.018	0.35	mg/Kg-dry	1	7/1/2016 2:34 AM
2-Nitrophenol	0.091	U	0.045	0.091	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
3,3´-Dichlorobenzidine	0.73	UQ	0.47	0.73	1.1	mg/Kg-dry	1	7/1/2016 2:34 AM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	7/1/2016 2:34 AM
3/4-Methylphenol [m/p-Cresol]	0.091	U	0.065	0.091	0.35	mg/Kg-dry	1	7/1/2016 2:34 AM
4,6-Dinitro-2-methylphenol	0.091	U	0.053	0.091	0.35	mg/Kg-dry	1	7/1/2016 2:34 AM
4-Bromophenyl phenyl ether	0.091	U	0.047	0.091	0.22	mg/Kg-dry	1	7/1/2016 2:34 AM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
4-Chloroaniline [p-Chloroaniline]	0.091	U	0.028	0.091	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
4-Nitroaniline	0.091	U	0.026	0.091	0.35	mg/Kg-dry	1	7/1/2016 2:34 AM
4-Nitrophenol	0.37	U	0.26	0.37	0.91	mg/Kg-dry	1	7/1/2016 2:34 AM
Benzoic acid	0.37	UY QZ	0.15	0.37	1.1	mg/Kg-dry	1	7/1/2016 2:34 AM
Benzyl alcohol	0.018	U	0.0088	0.018	0.72	mg/Kg-dry	1	7/1/2016 2:34 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0083	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Bis(2-ethylhexyl) phthalate	0.037	U	0.032	0.037	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Carbazole	0.12	J	0.013	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Dibenzofuran	0.069	J	0.0093	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Hexachlorobenzene	0.018	U	0.0099	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Hexachlorobutadiene	0.018	UY	0.017	0.018	0.055	mg/Kg-dry	1	7/1/2016 2:34 AM
Hexachloroethane	0.018	U	0.0084	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Isophorone	0.018	U	0.0076	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
N-Nitrosodimethylamine	0.018	UY	0.0089	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
N-Nitrosodiphenylamine	0.018	U	0.0088	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Nitrobenzene	0.018	U	0.011	0.018	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Pentachlorophenol	0.091	UY Q	0.069	0.091	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Phenol	0.091	U	0.039	0.091	0.18	mg/Kg-dry	1	7/1/2016 2:34 AM
Surr: 2,4,6-Tribromophenol	73.0			39-132		%Rec	1	7/1/2016 2:34 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 8:30:00 AM
Project: Camp Hero
Lab ID: 1606652-003 **Matrix:** Soil
Client Sample ID: WDS-SB19-12

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	67.7			44-115		%Rec	1	7/1/2016 2:34 AM
Surr: 2-Fluorophenol	60.1			35-115		%Rec	1	7/1/2016 2:34 AM
Surr: Nitrobenzene-d5	67.7			37-122		%Rec	1	7/1/2016 2:34 AM
Surr: Phenol-d5	60.3			33-122		%Rec	1	7/1/2016 2:34 AM
Surr: Terphenyl-d14	72.2			54-127		%Rec	1	7/1/2016 2:34 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.060	Y	0.0074	0.0074	0.0074	mg/Kg-dry	10	7/26/2016 6:02 PM
2-Methylnaphthalene	0.099		0.0074	0.0074	0.0074	mg/Kg-dry	10	7/26/2016 6:02 PM
Acenaphthene	0.35		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Acenaphthylene	0.0074	U	0.0074	0.0074	0.0074	mg/Kg-dry	10	7/26/2016 6:02 PM
Anthracene	0.74		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Benzo(a)anthracene	1.4		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Benzo(a)pyrene	1.1		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Benzo(b)fluoranthene	1.6		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Benzo(g,h,i)perylene	0.51		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Benzo(k)fluoranthene	0.35		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Chrysene	1.1		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Dibenzo(a,h)anthracene	0.077		0.0074	0.0074	0.0074	mg/Kg-dry	10	7/26/2016 6:02 PM
Fluoranthene	3.0		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Fluorene	0.30		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Indeno(1,2,3-cd)pyrene	0.51		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Naphthalene	0.31		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Phenanthrene	2.3		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Pyrene	2.4		0.074	0.074	0.074	mg/Kg-dry	100	8/4/2016 6:57 PM
Surr: 2-Fluorobiphenyl	88.9			46-115		%Rec	10	7/26/2016 6:02 PM
Surr: Nitrobenzene-d5	75.6			44-125		%Rec	10	7/26/2016 6:02 PM
Surr: Terphenyl-d14	111			58-133		%Rec	10	7/26/2016 6:02 PM
TCL for Low Level Soil			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.00058	U	0.00028	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
1,1,1-Trichloroethane	0.00058	U	0.00020	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
1,1,2,2-Tetrachloroethane	0.00058	U	0.00051	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
1,1,2-Trichloroethane	0.00058	U	0.00037	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
1,1-Dichloroethane	0.00058	U	0.00014	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
1,1-Dichloroethene	0.00058	U	0.00020	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
1,2,3-Trichloropropane	0.00058	U	0.00034	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
1,2-Dibromo-3-chloropropane	0.0019	U	0.0013	0.0019	0.0048	mg/Kg-dry	0.87	6/23/2016 4:29 PM
1,2-Dibromoethane	0.00058	U	0.00043	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
1,2-Dichloroethane	0.00058	U	0.00013	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
1,2-Dichloropropane	0.00058	U	0.00027	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
2-Butanone [MEK]	0.0096	UQ	0.0057	0.0096	0.019	mg/Kg-dry	0.87	6/23/2016 4:29 PM
2-Hexanone	0.0019	U	0.00060	0.0019	0.0048	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Acetone	0.025	Z	0.00088	0.0019	0.0096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Benzene	0.00058	U	0.00026	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 8:30:00 AM
Project:	Camp Hero		
Lab ID:	1606652-003	**Matrix:**	Soil
Client Sample ID:	WDS-SB19-12		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.00058	U	0.00019	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Bromoform	0.00058	U	0.00031	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Carbon disulfide	0.00082	J	0.00018	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Carbon tetrachloride	0.00058	U	0.00020	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Chlorobenzene	0.00058	U	0.00018	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Chlorodibromomethane	0.00058	U	0.00033	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Chloroethane	0.00096	U	0.00073	0.00096	0.0019	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Chloroform	0.00058	U	0.00046	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Chloromethane	0.00058	U	0.00033	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
cis-1,2-Dichloroethene	0.00058	U	0.00054	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
cis-1,3-Dichloropropene	0.00058	UQ	0.00015	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Dichlorodifluoromethane [Freon-12]	0.00058	U	0.00037	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Ethylbenzene	0.00058	U	0.00021	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Methylene chloride	0.0033	JB Q	0.0010	0.0019	0.0048	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Styrene	0.00058	UQ	0.00022	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Tetrachloroethene	0.00058	U	0.00031	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Toluene	0.00058	U	0.00026	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
trans-1,2-Dichloroethene	0.00058	U	0.00018	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
trans-1,3-Dichloropropene	0.00058	UQ	0.00022	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Trichloroethene	0.00058	U	0.00037	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Trichlorofluoromethane [Freon-11]	0.00058	U	0.00022	0.00058	0.00096	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Vinyl acetate	0.00058	UZ	0.00045	0.00058	0.0048	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Vinyl chloride	0.00058	U	0.00030	0.00058	0.00077	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Xylene (Total)	0.0017	U	0.00044	0.0017	0.0029	mg/Kg-dry	0.87	6/23/2016 4:29 PM
Surr: 4-Bromofluorobenzene	88.0			79-119		%Rec	0.87	6/23/2016 4:29 PM
Surr: Dibromofluoromethane	90.0			78-119		%Rec	0.87	6/23/2016 4:29 PM
Surr: Toluene-d8	85.1			85-116		%Rec	0.87	6/23/2016 4:29 PM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	9.4		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 9:15:00 AM
Project: Camp Hero
Lab ID: 1606652-004 **Matrix:** Soil
Client Sample ID: 201-SB01-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0071	U	0.0032	0.0071	0.035	mg/Kg-dry	1	7/24/2016 10:22 PM
Aroclor 1221	0.0071	U	0.0032	0.0071	0.035	mg/Kg-dry	1	7/24/2016 10:22 PM
Aroclor 1232	0.0071	U	0.0048	0.0071	0.035	mg/Kg-dry	1	7/24/2016 10:22 PM
Aroclor 1242	0.0071	U	0.0040	0.0071	0.035	mg/Kg-dry	1	7/24/2016 10:22 PM
Aroclor 1248	0.0071	U	0.0037	0.0071	0.035	mg/Kg-dry	1	7/24/2016 10:22 PM
Aroclor 1254	0.0071	U	0.0045	0.0071	0.035	mg/Kg-dry	1	7/24/2016 10:22 PM
Aroclor 1260	0.0071	U	0.0031	0.0071	0.035	mg/Kg-dry	1	7/24/2016 10:22 PM
Aroclor 1262	0.0071	U	0.0031	0.0071	0.035	mg/Kg-dry	1	7/24/2016 10:22 PM
Aroclor 1268	0.0071	U	0.0026	0.0071	0.035	mg/Kg-dry	1	7/24/2016 10:22 PM
Surr: Tetrachloro-m-xylene	72.7			44-130		%Rec	1	7/24/2016 10:22 PM
Surr: Decachlorobiphenyl	80.6			60-125		%Rec	1	7/24/2016 10:22 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	5,100		53	140	350	mg/Kg-dry	100	7/28/2016 2:41 PM
Antimony	2.3		0.26	0.35	0.70	mg/Kg-dry	1	7/28/2016 1:42 PM
Arsenic	1.3	J	0.51	0.70	1.4	mg/Kg-dry	1	7/28/2016 1:42 PM
Barium	28		0.21	3.5	7.0	mg/Kg-dry	1	7/28/2016 1:42 PM
Beryllium	0.035	U	0.0089	0.035	0.18	mg/Kg-dry	1	7/28/2016 1:42 PM
Cadmium	0.030	J	0.023	0.035	0.18	mg/Kg-dry	1	7/28/2016 1:42 PM
Calcium	730		2.1	7.0	35	mg/Kg-dry	1	7/28/2016 1:42 PM
Chromium	8.9		0.058	0.28	0.35	mg/Kg-dry	1	8/2/2016 1:14 PM
Cobalt	2.3		0.063	0.18	0.70	mg/Kg-dry	1	7/28/2016 1:42 PM
Copper	21		0.29	0.70	3.5	mg/Kg-dry	1	7/28/2016 1:42 PM
Iron	8,600		220	350	1,100	mg/Kg-dry	100	7/28/2016 2:41 PM
Lead	1.1	J	0.44	0.70	3.5	mg/Kg-dry	1	7/28/2016 1:42 PM
Magnesium	1,500		2.5	3.5	35	mg/Kg-dry	1	7/28/2016 1:42 PM
Manganese	100		0.13	0.18	0.70	mg/Kg-dry	1	7/28/2016 1:42 PM
Nickel	4.8		0.20	0.70	3.5	mg/Kg-dry	1	7/28/2016 1:42 PM
Potassium	1,200		1.6	7.0	14	mg/Kg-dry	1	7/28/2016 1:42 PM
Selenium	1.1	U	0.82	1.1	1.4	mg/Kg-dry	1	7/28/2016 1:42 PM
Silver	0.18	U	0.057	0.18	0.70	mg/Kg-dry	1	7/28/2016 1:42 PM
Sodium	120		1.4	3.5	35	mg/Kg-dry	1	7/28/2016 1:42 PM
Vanadium	13		0.089	0.70	1.8	mg/Kg-dry	1	7/28/2016 1:42 PM
Zinc	9.8		0.27	0.35	3.5	mg/Kg-dry	1	8/2/2016 1:14 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.062	J	0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 2:17 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
1,2-Dichlorobenzene	0.018	U	0.0079	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 9:15:00 AM
Project: Camp Hero
Lab ID: 1606652-004 **Matrix:** Soil
Client Sample ID: 201-SB01-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
2,4-Dichlorophenol	0.091	U	0.031	0.091	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
2,4-Dimethyl phenol	0.091	U	0.035	0.091	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
2,4-Dinitrophenol	0.18	UQ	0.10	0.18	0.91	mg/Kg-dry	1	7/1/2016 2:59 AM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
2-Chlorophenol	0.091	U	0.038	0.091	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
2-Methylphenol (o-Cresol)	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
2-Nitroaniline	0.018	U	0.0089	0.018	0.35	mg/Kg-dry	1	7/1/2016 2:59 AM
2-Nitrophenol	0.091	U	0.045	0.091	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
3,3´-Dichlorobenzidine	0.73	UQ	0.47	0.73	1.1	mg/Kg-dry	1	7/1/2016 2:59 AM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	7/1/2016 2:59 AM
3/4-Methylphenol [m/p-Cresol]	0.091	U	0.065	0.091	0.35	mg/Kg-dry	1	7/1/2016 2:59 AM
4,6-Dinitro-2-methylphenol	0.091	U	0.052	0.091	0.35	mg/Kg-dry	1	7/1/2016 2:59 AM
4-Bromophenyl phenyl ether	0.091	U	0.046	0.091	0.22	mg/Kg-dry	1	7/1/2016 2:59 AM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
4-Chloroaniline [p-Chloroaniline]	0.091	U	0.027	0.091	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
4-Nitroaniline	0.091	U	0.026	0.091	0.35	mg/Kg-dry	1	7/1/2016 2:59 AM
4-Nitrophenol	0.36	U	0.26	0.36	0.91	mg/Kg-dry	1	7/1/2016 2:59 AM
Benzoic acid	0.36	UY QZ	0.15	0.36	1.1	mg/Kg-dry	1	7/1/2016 2:59 AM
Benzyl alcohol	0.018	U	0.0088	0.018	0.72	mg/Kg-dry	1	7/1/2016 2:59 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0076	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Bis(2-chloroethyl) ether	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0083	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Carbazole	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Di-n-butyl phthalate	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Dibenzofuran	0.018	U	0.0093	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Hexachlorobenzene	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Hexachlorobutadiene	0.018	UY	0.017	0.018	0.055	mg/Kg-dry	1	7/1/2016 2:59 AM
Hexachloroethane	0.018	U	0.0084	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
N-Nitrosodimethylamine	0.018	UY	0.0088	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
N-Nitrosodiphenylamine	0.018	U	0.0088	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Pentachlorophenol	0.091	UY Q	0.068	0.091	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Phenol	0.091	U	0.039	0.091	0.17	mg/Kg-dry	1	7/1/2016 2:59 AM
Surr: 2,4,6-Tribromophenol	55.1			39-132		%Rec	1	7/1/2016 2:59 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 9:15:00 AM
Project: Camp Hero
Lab ID: 1606652-004 **Matrix:** Soil
Client Sample ID: 201-SB01-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	53.7			44-115		%Rec	1	7/1/2016 2:59 AM
Surr: 2-Fluorophenol	49.7			35-115		%Rec	1	7/1/2016 2:59 AM
Surr: Nitrobenzene-d5	55.7			37-122		%Rec	1	7/1/2016 2:59 AM
Surr: Phenol-d5	49.7			33-122		%Rec	1	7/1/2016 2:59 AM
Surr: Terphenyl-d14	58.6			54-127		%Rec	1	7/1/2016 2:59 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0073	UY	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
2-Methylnaphthalene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Acenaphthene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Acenaphthylene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Anthracene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Benzo(a)anthracene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Benzo(a)pyrene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Benzo(b)fluoranthene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Benzo(g,h,i)perylene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Benzo(k)fluoranthene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Chrysene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Dibenzo(a,h)anthracene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Fluoranthene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Fluorene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Indeno(1,2,3-cd)pyrene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Naphthalene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Phenanthrene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Pyrene	0.0073	U	0.0073	0.0073	0.0073	mg/Kg-dry	10	7/26/2016 6:30 PM
Surr: 2-Fluorobiphenyl	279	Q		46-115		%Rec	10	7/26/2016 6:30 PM
Surr: Nitrobenzene-d5	292	Q		44-125		%Rec	10	7/26/2016 6:30 PM
Surr: Terphenyl-d14	296	Q		58-133		%Rec	10	7/26/2016 6:30 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00068	U	0.00033	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
1,1,1-Trichloroethane	0.00068	U	0.00024	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
1,1,2,2-Tetrachloroethane	0.00068	U	0.00061	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
1,1,2-Trichloroethane	0.00068	U	0.00044	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
1,1-Dichloroethane	0.00068	U	0.00017	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
1,1-Dichloroethene	0.00068	U	0.00023	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
1,2,3-Trichloropropane	0.00068	U	0.00040	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
1,2-Dibromo-3-chloropropane	0.0023	UQ	0.0016	0.0023	0.0057	mg/Kg-dry	1.04	6/29/2016 7:53 PM
1,2-Dibromoethane	0.00068	U	0.00051	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
1,2-Dichloroethane	0.00068	U	0.00015	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
1,2-Dichloropropane	0.00068	U	0.00032	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
2-Butanone [MEK]	0.011	UQ	0.0068	0.011	0.023	mg/Kg-dry	1.04	6/29/2016 7:53 PM
2-Hexanone	0.0023	UB QZ	0.00071	0.0023	0.0057	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Acetone	0.043	Q	0.0010	0.0023	0.011	mg/Kg-dry	1.04	6/29/2016 7:53 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 9:15:00 AM
Project:	Camp Hero		
Lab ID:	1606652-004	**Matrix:**	Soil
Client Sample ID:	201-SB01-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00068	U	0.00031	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Bromodichloromethane	0.00068	U	0.00023	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Bromoform	0.00068	U	0.00037	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Carbon disulfide	0.00068	U	0.00021	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Carbon tetrachloride	0.00068	U	0.00024	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Chlorobenzene	0.00068	U	0.00022	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Chlorodibromomethane	0.00068	U	0.00040	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Chloroethane	0.0011	U	0.00086	0.0011	0.0023	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Chloroform	0.00068	U	0.00054	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Chloromethane	0.0018	BQZ	0.00039	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
cis-1,2-Dichloroethene	0.00068	U	0.00064	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
cis-1,3-Dichloropropene	0.00068	U	0.00018	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Dichlorodifluoromethane [Freon-12]	0.00068	UZ	0.00044	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Ethylbenzene	0.00068	U	0.00025	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Methylene chloride	0.0065	Q	0.0012	0.0023	0.0057	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Styrene	0.00068	U	0.00026	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Tetrachloroethene	0.00068	U	0.00037	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Toluene	0.00068	U	0.00031	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
trans-1,2-Dichloroethene	0.00068	U	0.00021	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
trans-1,3-Dichloropropene	0.00068	U	0.00026	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Trichloroethene	0.00068	U	0.00043	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Trichlorofluoromethane [Freon-11]	0.00068	U	0.00026	0.00068	0.0011	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Vinyl acetate	0.00068	UZ	0.00054	0.00068	0.0057	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Vinyl chloride	0.00068	U	0.00035	0.00068	0.00091	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Xylene (Total)	0.0021	U	0.00052	0.0021	0.0034	mg/Kg-dry	1.04	6/29/2016 7:53 PM
Surr: 4-Bromofluorobenzene	85.3			79-119		%Rec	1.04	6/29/2016 7:53 PM
Surr: Dibromofluoromethane	102			78-119		%Rec	1.04	6/29/2016 7:53 PM
Surr: Toluene-d8	88.7			85-116		%Rec	1.04	6/29/2016 7:53 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	8.7	1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 9:20:00 AM
Project: Camp Hero
Lab ID: 1606652-005 **Matrix:** Soil
Client Sample ID: 201-SB01-25

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0067	U	0.0030	0.0067	0.033	mg/Kg-dry	1	7/24/2016 10:46 PM
Aroclor 1221	0.0067	U	0.0030	0.0067	0.033	mg/Kg-dry	1	7/24/2016 10:46 PM
Aroclor 1232	0.0067	U	0.0045	0.0067	0.033	mg/Kg-dry	1	7/24/2016 10:46 PM
Aroclor 1242	0.0067	U	0.0038	0.0067	0.033	mg/Kg-dry	1	7/24/2016 10:46 PM
Aroclor 1248	0.0067	U	0.0036	0.0067	0.033	mg/Kg-dry	1	7/24/2016 10:46 PM
Aroclor 1254	0.0067	U	0.0043	0.0067	0.033	mg/Kg-dry	1	7/24/2016 10:46 PM
Aroclor 1260	0.0067	U	0.0030	0.0067	0.033	mg/Kg-dry	1	7/24/2016 10:46 PM
Aroclor 1262	0.0067	U	0.0030	0.0067	0.033	mg/Kg-dry	1	7/24/2016 10:46 PM
Aroclor 1268	0.0067	U	0.0025	0.0067	0.033	mg/Kg-dry	1	7/24/2016 10:46 PM
Surr: Tetrachloro-m-xylene	51.7			44-130		%Rec	1	7/24/2016 10:46 PM
Surr: Decachlorobiphenyl	61.1			60-125		%Rec	1	7/24/2016 10:46 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,200		50	130	340	mg/Kg-dry	100	7/29/2016 1:12 PM
Antimony	3.0		0.25	0.34	0.67	mg/Kg-dry	1	7/29/2016 11:43 AM
Arsenic	1.3	J	0.49	0.67	1.3	mg/Kg-dry	1	7/29/2016 11:43 AM
Barium	27		0.20	3.4	6.7	mg/Kg-dry	1	7/29/2016 11:43 AM
Beryllium	0.014	J	0.0085	0.034	0.17	mg/Kg-dry	1	7/29/2016 11:43 AM
Cadmium	0.034	U	0.022	0.034	0.17	mg/Kg-dry	1	7/29/2016 11:43 AM
Calcium	780	X	2.0	6.7	34	mg/Kg-dry	1	7/29/2016 11:43 AM
Chromium	9.2		0.055	0.27	0.34	mg/Kg-dry	1	8/1/2016 4:01 PM
Cobalt	3.2		0.060	0.17	0.67	mg/Kg-dry	1	7/29/2016 11:43 AM
Copper	26		0.28	0.67	3.4	mg/Kg-dry	1	7/29/2016 11:43 AM
Iron	12,000		21	34	100	mg/Kg-dry	10	7/29/2016 1:10 PM
Lead	0.97	J	0.42	0.67	3.4	mg/Kg-dry	1	7/29/2016 11:43 AM
Magnesium	1,500	X	2.3	3.4	34	mg/Kg-dry	1	7/29/2016 11:43 AM
Manganese	270		1.2	1.7	6.7	mg/Kg-dry	10	7/29/2016 1:10 PM
Nickel	5.9		0.19	0.67	3.4	mg/Kg-dry	1	7/29/2016 11:43 AM
Potassium	910	X	1.6	6.7	13	mg/Kg-dry	1	7/29/2016 11:43 AM
Selenium	1.0	U	0.78	1.0	1.3	mg/Kg-dry	1	7/29/2016 11:43 AM
Silver	0.17	U	0.055	0.17	0.67	mg/Kg-dry	1	7/29/2016 11:43 AM
Sodium	130		1.4	3.4	34	mg/Kg-dry	1	7/29/2016 11:43 AM
Vanadium	17		0.085	0.67	1.7	mg/Kg-dry	1	7/29/2016 11:43 AM
Zinc	11		0.26	0.34	3.4	mg/Kg-dry	1	8/1/2016 4:01 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.077	J	0.032	0.033	0.13	mg/Kg-dry	10	7/15/2016 3:07 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.017	UX	0.0097	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
1,2-Dichlorobenzene	0.017	UX	0.0075	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
1,3-Dichlorobenzene	0.017	UX	0.0072	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
1,4-Dichlorobenzene	0.017	UX	0.0055	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
2,4,5-Trichlorophenol	0.035	UX	0.017	0.035	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 9:20:00 AM
Project: Camp Hero
Lab ID: 1606652-005 **Matrix:** Soil
Client Sample ID: 201-SB01-25

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.035	UX	0.019	0.035	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
2,4-Dichlorophenol	0.087	UX	0.030	0.087	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
2,4-Dimethyl phenol	0.087	U	0.033	0.087	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
2,4-Dinitrophenol	0.17	UQ	0.098	0.17	0.86	mg/Kg-dry	1	7/1/2016 3:23 AM
2,4-Dinitrotoluene	0.017	UX	0.015	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
2,6-Dinitrotoluene	0.017	UX	0.016	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
2-Chloronaphthalene	0.017	UX	0.012	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
2-Chlorophenol	0.087	UX	0.036	0.087	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
2-Methylphenol (o-Cresol)	0.087	UX	0.037	0.087	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
2-Nitroaniline	0.017	UX	0.0084	0.017	0.33	mg/Kg-dry	1	7/1/2016 3:23 AM
2-Nitrophenol	0.087	UX	0.043	0.087	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
3,3´-Dichlorobenzidine	0.69	UQX	0.44	0.69	1.0	mg/Kg-dry	1	7/1/2016 3:23 AM
3-Nitroaniline	0.017	UX	0.012	0.017	0.33	mg/Kg-dry	1	7/1/2016 3:23 AM
3/4-Methylphenol [m/p-Cresol]	0.087	UX	0.062	0.087	0.33	mg/Kg-dry	1	7/1/2016 3:23 AM
4,6-Dinitro-2-methylphenol	0.087	UX	0.050	0.087	0.33	mg/Kg-dry	1	7/1/2016 3:23 AM
4-Bromophenyl phenyl ether	0.087	UX	0.044	0.087	0.21	mg/Kg-dry	1	7/1/2016 3:23 AM
4-Chloro-3-methylphenol	0.035	UX	0.018	0.035	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
4-Chloroaniline [p-Chloroaniline]	0.087	UX	0.026	0.087	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
4-Chlorophenyl phenyl ether	0.017	UX	0.010	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
4-Nitroaniline	0.087	UX	0.025	0.087	0.33	mg/Kg-dry	1	7/1/2016 3:23 AM
4-Nitrophenol	0.35	UX	0.25	0.35	0.86	mg/Kg-dry	1	7/1/2016 3:23 AM
Benzoic acid	0.35	UYQXZ	0.14	0.35	1.0	mg/Kg-dry	1	7/1/2016 3:23 AM
Benzyl alcohol	0.017	UX	0.0083	0.017	0.69	mg/Kg-dry	1	7/1/2016 3:23 AM
Bis(2-chloroethoxy) methane	0.017	UX	0.0072	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Bis(2-chloroethyl) ether	0.035	UX	0.019	0.035	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Bis(2-chloroisopropyl)ether	0.017	UXZ	0.0079	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Bis(2-ethylhexyl) phthalate	0.035	UX	0.031	0.035	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Butyl benzyl phthalate	0.035	UX	0.020	0.035	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Carbazole	0.017	UX	0.012	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Di-n-butyl phthalate	0.035	UX	0.019	0.035	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Di-n-octyl phthalate	0.017	UX	0.012	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Dibenzofuran	0.017	UX	0.0088	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Diethyl phthalate	0.017	UX	0.013	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Dimethyl phthalate	0.017	UX	0.012	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Hexachlorobenzene	0.017	UX	0.0094	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Hexachlorobutadiene	0.017	UYX	0.016	0.017	0.052	mg/Kg-dry	1	7/1/2016 3:23 AM
Hexachloroethane	0.017	UX	0.0080	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Isophorone	0.017	UX	0.0072	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
N-Nitroso-di-n-propylamine	0.017	UX	0.0096	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
N-Nitrosodimethylamine	0.017	UYX	0.0084	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
N-Nitrosodiphenylamine	0.017	UX	0.0084	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Nitrobenzene	0.017	UX	0.011	0.017	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 9:20:00 AM
Project: Camp Hero
Lab ID: 1606652-005 **Matrix:** Soil
Client Sample ID: 201-SB01-25

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pentachlorophenol	0.087	UY QX	0.065	0.087	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Phenol	0.087	UX	0.037	0.087	0.17	mg/Kg-dry	1	7/1/2016 3:23 AM
Surr: 2,4,6-Tribromophenol	68.6			39-132		%Rec	1	7/1/2016 3:23 AM
Surr: 2-Fluorobiphenyl	70.5			44-115		%Rec	1	7/1/2016 3:23 AM
Surr: 2-Fluorophenol	58.0			35-115		%Rec	1	7/1/2016 3:23 AM
Surr: Nitrobenzene-d5	70.1			37-122		%Rec	1	7/1/2016 3:23 AM
Surr: Phenol-d5	59.5			33-122		%Rec	1	7/1/2016 3:23 AM
Surr: Terphenyl-d14	77.5			54-127		%Rec	1	7/1/2016 3:23 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0021	UY	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
2-Methylnaphthalene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Acenaphthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Acenaphthylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Benzo(a)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Benzo(a)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Benzo(b)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Benzo(g,h,i)perylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Benzo(k)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Chrysene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Dibenzo(a,h)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Fluoranthene	0.0021		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Fluorene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Indeno(1,2,3-cd)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Naphthalene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Phenanthrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 1:22 PM
Surr: 2-Fluorobiphenyl	72.8			46-115		%Rec	3	7/26/2016 1:22 PM
Surr: Nitrobenzene-d5	73.3			44-125		%Rec	3	7/26/2016 1:22 PM
Surr: Terphenyl-d14	77.5			58-133		%Rec	3	7/26/2016 1:22 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00061	U	0.00029	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
1,1,1-Trichloroethane	0.00061	U	0.00021	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
1,1,2,2-Tetrachloroethane	0.00061	U	0.00054	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
1,1,2-Trichloroethane	0.00061	U	0.00040	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
1,1-Dichloroethane	0.00061	U	0.00015	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
1,1-Dichloroethene	0.00061	U	0.00021	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
1,2,3-Trichloropropane	0.00061	U	0.00036	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
1,2-Dibromo-3-chloropropane	0.0020	UQ	0.0014	0.0020	0.0051	mg/Kg-dry	0.98	6/29/2016 8:20 PM
1,2-Dibromoethane	0.00061	U	0.00046	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
1,2-Dichloroethane	0.00061	U	0.00014	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
1,2-Dichloropropane	0.00061	U	0.00028	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 9:20:00 AM
Project: Camp Hero
Lab ID: 1606652-005 **Matrix:** Soil
Client Sample ID: 201-SB01-25

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2-Butanone [MEK]	0.010	UQX	0.0060	0.010	0.020	mg/Kg-dry	0.98	6/29/2016 8:20 PM
2-Hexanone	0.0020	UBQXZ	0.00064	0.0020	0.0051	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Acetone	0.0023	JQ	0.00093	0.0020	0.010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Benzene	0.00061	U	0.00027	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Bromodichloromethane	0.00061	U	0.00020	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Bromoform	0.00061	U	0.00033	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Carbon disulfide	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Carbon tetrachloride	0.00061	U	0.00022	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Chlorobenzene	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Chlorodibromomethane	0.00061	U	0.00035	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Chloroethane	0.0010	U	0.00077	0.0010	0.0020	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Chloroform	0.00061	U	0.00048	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Chloromethane	0.0014	BQZ	0.00035	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
cis-1,2-Dichloroethene	0.00061	U	0.00057	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
cis-1,3-Dichloropropene	0.00061	U	0.00016	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Dichlorodifluoromethane [Freon-12]	0.00061	UZ	0.00039	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Ethylbenzene	0.00061	UX	0.00023	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Methylene chloride	0.0032	JQ	0.0011	0.0020	0.0051	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Styrene	0.00061	UX	0.00023	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Tetrachloroethene	0.00061	U	0.00033	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Toluene	0.00061	U	0.00027	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
trans-1,2-Dichloroethene	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
trans-1,3-Dichloropropene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Trichloroethene	0.00061	U	0.00039	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Trichlorofluoromethane [Freon-11]	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Vinyl acetate	0.00061	UXZ	0.00048	0.00061	0.0051	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Vinyl chloride	0.00061	U	0.00031	0.00061	0.00081	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Xylene (Total)	0.0018	UX	0.00046	0.0018	0.0031	mg/Kg-dry	0.98	6/29/2016 8:20 PM
Surr: 4-Bromofluorobenzene	86.4			79-119		%Rec	0.98	6/29/2016 8:20 PM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.98	6/29/2016 8:20 PM
Surr: Toluene-d8	87.3			85-116		%Rec	0.98	6/29/2016 8:20 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	3.7		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 10:10:00 AM
Project:	Camp Hero		
Lab ID:	1606652-006	**Matrix:**	Soil
Client Sample ID:	203-SB01-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0072	U	0.0032	0.0072	0.035	mg/Kg-dry	1	7/24/2016 11:59 PM
Aroclor 1221	0.0072	U	0.0032	0.0072	0.035	mg/Kg-dry	1	7/24/2016 11:59 PM
Aroclor 1232	0.0072	U	0.0048	0.0072	0.035	mg/Kg-dry	1	7/24/2016 11:59 PM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.035	mg/Kg-dry	1	7/24/2016 11:59 PM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.035	mg/Kg-dry	1	7/24/2016 11:59 PM
Aroclor 1254	0.0072	U	0.0045	0.0072	0.035	mg/Kg-dry	1	7/24/2016 11:59 PM
Aroclor 1260	0.0072	U	0.0031	0.0072	0.035	mg/Kg-dry	1	7/24/2016 11:59 PM
Aroclor 1262	0.0072	U	0.0031	0.0072	0.035	mg/Kg-dry	1	7/24/2016 11:59 PM
Aroclor 1268	0.0072	U	0.0026	0.0072	0.035	mg/Kg-dry	1	7/24/2016 11:59 PM
Surr: Tetrachloro-m-xylene	73.8			44-130		%Rec	1	7/24/2016 11:59 PM
Surr: Decachlorobiphenyl	87.2			60-125		%Rec	1	7/24/2016 11:59 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,600		52	140	350	mg/Kg-dry	100	7/29/2016 1:41 PM
Antimony	2.6		0.26	0.35	0.70	mg/Kg-dry	1	7/29/2016 12:12 PM
Arsenic	2.0		0.50	0.70	1.4	mg/Kg-dry	1	7/29/2016 12:12 PM
Barium	32		0.21	3.5	7.0	mg/Kg-dry	1	7/29/2016 12:12 PM
Beryllium	0.051	J	0.0088	0.035	0.17	mg/Kg-dry	1	7/29/2016 12:12 PM
Cadmium	0.035	U	0.023	0.035	0.17	mg/Kg-dry	1	7/29/2016 12:12 PM
Calcium	560		2.0	7.0	35	mg/Kg-dry	1	7/29/2016 12:12 PM
Chromium	9.5		0.057	0.28	0.35	mg/Kg-dry	1	8/1/2016 4:23 PM
Cobalt	2.7		0.063	0.17	0.70	mg/Kg-dry	1	7/29/2016 12:12 PM
Copper	27		0.29	0.70	3.5	mg/Kg-dry	1	7/29/2016 12:12 PM
Iron	11,000		22	35	100	mg/Kg-dry	10	7/29/2016 1:39 PM
Lead	1.7	J	0.43	0.70	3.5	mg/Kg-dry	1	7/29/2016 12:12 PM
Magnesium	1,500		2.4	3.5	35	mg/Kg-dry	1	7/29/2016 12:12 PM
Manganese	210		1.3	1.7	7.0	mg/Kg-dry	10	7/29/2016 1:39 PM
Nickel	5.4		0.20	0.70	3.5	mg/Kg-dry	1	7/29/2016 12:12 PM
Potassium	1,100		1.6	7.0	14	mg/Kg-dry	1	7/29/2016 12:12 PM
Selenium	1.0	U	0.81	1.0	1.4	mg/Kg-dry	1	7/29/2016 12:12 PM
Silver	0.17	U	0.057	0.17	0.70	mg/Kg-dry	1	7/29/2016 12:12 PM
Sodium	100		1.4	3.5	35	mg/Kg-dry	1	7/29/2016 12:12 PM
Vanadium	16		0.088	0.70	1.7	mg/Kg-dry	1	7/29/2016 12:12 PM
Zinc	12		0.27	0.35	3.5	mg/Kg-dry	1	8/1/2016 4:23 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.13	J	0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 3:40 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
1,3-Dichlorobenzene	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 10:10:00 AM
Project: Camp Hero
Lab ID: 1606652-006 **Matrix:** Soil
Client Sample ID: 203-SB01-10

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
2,4-Dichlorophenol	0.090	U	0.031	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
2,4-Dimethyl phenol	0.090	U	0.035	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
2,4-Dinitrophenol	0.18	UQ	0.10	0.18	0.90	mg/Kg-dry	1	7/1/2016 7:08 AM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
2-Chlorophenol	0.090	U	0.038	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
2-Methylphenol (o-Cresol)	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
2-Nitroaniline	0.018	U	0.0088	0.018	0.35	mg/Kg-dry	1	7/1/2016 7:08 AM
2-Nitrophenol	0.090	U	0.045	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
3,3´-Dichlorobenzidine	0.72	UQ	0.46	0.72	1.1	mg/Kg-dry	1	7/1/2016 7:08 AM
3-Nitroaniline	0.018	U	0.013	0.018	0.35	mg/Kg-dry	1	7/1/2016 7:08 AM
3/4-Methylphenol [m/p-Cresol]	0.090	U	0.064	0.090	0.35	mg/Kg-dry	1	7/1/2016 7:08 AM
4,6-Dinitro-2-methylphenol	0.090	U	0.052	0.090	0.35	mg/Kg-dry	1	7/1/2016 7:08 AM
4-Bromophenyl phenyl ether	0.090	U	0.046	0.090	0.22	mg/Kg-dry	1	7/1/2016 7:08 AM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
4-Chloroaniline [p-Chloroaniline]	0.090	U	0.027	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
4-Nitroaniline	0.090	U	0.026	0.090	0.35	mg/Kg-dry	1	7/1/2016 7:08 AM
4-Nitrophenol	0.36	U	0.26	0.36	0.90	mg/Kg-dry	1	7/1/2016 7:08 AM
Benzoic acid	0.36	UY QZ	0.15	0.36	1.1	mg/Kg-dry	1	7/1/2016 7:08 AM
Benzyl alcohol	0.018	U	0.0087	0.018	0.71	mg/Kg-dry	1	7/1/2016 7:08 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0082	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Hexachlorobutadiene	0.018	UY	0.016	0.018	0.054	mg/Kg-dry	1	7/1/2016 7:08 AM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Isophorone	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
N-Nitrosodimethylamine	0.018	UY	0.0088	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
N-Nitrosodiphenylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Pentachlorophenol	0.090	UY Q	0.068	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Phenol	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:08 AM
Surr: 2,4,6-Tribromophenol	74.7			39-132		%Rec	1	7/1/2016 7:08 AM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 10:10:00 AM
Project:	Camp Hero		
Lab ID:	1606652-006	**Matrix:**	Soil
Client Sample ID:	203-SB01-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	70.1			44-115		%Rec	1	7/1/2016 7:08 AM
Surr: 2-Fluorophenol	60.9			35-115		%Rec	1	7/1/2016 7:08 AM
Surr: Nitrobenzene-d5	71.0			37-122		%Rec	1	7/1/2016 7:08 AM
Surr: Phenol-d5	61.9			33-122		%Rec	1	7/1/2016 7:08 AM
Surr: Terphenyl-d14	74.6			54-127		%Rec	1	7/1/2016 7:08 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0039	Y	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
2-Methylnaphthalene	0.0043		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Acenaphthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Acenaphthylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Benzo(a)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Benzo(a)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Benzo(b)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Benzo(k)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Chrysene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Fluorene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Indeno(1,2,3-cd)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Naphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Phenanthrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 6:58 PM
Surr: 2-Fluorobiphenyl	89.4			46-115		%Rec	3	7/26/2016 6:58 PM
Surr: Nitrobenzene-d5	89.4			44-125		%Rec	3	7/26/2016 6:58 PM
Surr: Terphenyl-d14	92.9			58-133		%Rec	3	7/26/2016 6:58 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00056	U	0.00027	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
1,1,1-Trichloroethane	0.00056	U	0.00020	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
1,1,2,2-Tetrachloroethane	0.00056	U	0.00050	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
1,1,2-Trichloroethane	0.00056	U	0.00037	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
1,1-Dichloroethane	0.00056	U	0.00014	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
1,1-Dichloroethene	0.00056	U	0.00019	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
1,2,3-Trichloropropane	0.00056	U	0.00033	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
1,2-Dibromo-3-chloropropane	0.0019	UQ	0.0013	0.0019	0.0047	mg/Kg-dry	0.86	6/29/2016 8:46 PM
1,2-Dibromoethane	0.00056	U	0.00042	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
1,2-Dichloroethane	0.00056	U	0.00013	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
1,2-Dichloropropane	0.00056	U	0.00026	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
2-Butanone [MEK]	0.0094	UQ	0.0056	0.0094	0.019	mg/Kg-dry	0.86	6/29/2016 8:46 PM
2-Hexanone	0.0019	UB QZ	0.00059	0.0019	0.0047	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Acetone	0.0019	UQ	0.00086	0.0019	0.0094	mg/Kg-dry	0.86	6/29/2016 8:46 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 10:10:00 AM
Project:	Camp Hero		
Lab ID:	1606652-006	**Matrix:**	Soil
Client Sample ID:	203-SB01-10		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00056	U	0.00025	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Bromodichloromethane	0.00056	U	0.00019	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Bromoform	0.00056	U	0.00031	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Carbon disulfide	0.00056	U	0.00017	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Carbon tetrachloride	0.00056	U	0.00020	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Chlorobenzene	0.00056	U	0.00018	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Chlorodibromomethane	0.00056	U	0.00033	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Chloroethane	0.00094	U	0.00071	0.00094	0.0019	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Chloroform	0.00056	U	0.00045	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Chloromethane	0.0014	BQ Z	0.00032	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
cis-1,2-Dichloroethene	0.00056	U	0.00053	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
cis-1,3-Dichloropropene	0.00056	U	0.00015	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Dichlorodifluoromethane [Freon-12]	0.00056	UZ	0.00036	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Ethylbenzene	0.00056	U	0.00021	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Methylene chloride	0.0019	UQ	0.00099	0.0019	0.0047	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Styrene	0.00056	U	0.00021	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Tetrachloroethene	0.00056	U	0.00030	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Toluene	0.00056	U	0.00025	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
trans-1,2-Dichloroethene	0.00056	U	0.00018	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
trans-1,3-Dichloropropene	0.00056	U	0.00021	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Trichloroethene	0.00056	U	0.00036	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Trichlorofluoromethane [Freon-11]	0.00056	U	0.00021	0.00056	0.00094	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Vinyl acetate	0.00056	UZ	0.00044	0.00056	0.0047	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Vinyl chloride	0.00056	U	0.00029	0.00056	0.00075	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Xylene (Total)	0.0017	U	0.00043	0.0017	0.0028	mg/Kg-dry	0.86	6/29/2016 8:46 PM
Surr: 4-Bromofluorobenzene	87.7			79-119		%Rec	0.86	6/29/2016 8:46 PM
Surr: Dibromofluoromethane	103			78-119		%Rec	0.86	6/29/2016 8:46 PM
Surr: Toluene-d8	86.6			85-116		%Rec	0.86	6/29/2016 8:46 PM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	8.5	1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 10:45:00 AM
Project:	Camp Hero		
Lab ID:	1606652-007	**Matrix:**	Soil
Client Sample ID:	203-SB01-12		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/25/2016 12:23 AM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	7/25/2016 12:23 AM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	7/25/2016 12:23 AM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	7/25/2016 12:23 AM
Aroclor 1248	0.0073	U	0.0038	0.0073	0.036	mg/Kg-dry	1	7/25/2016 12:23 AM
Aroclor 1254	0.0073	U	0.0046	0.0073	0.036	mg/Kg-dry	1	7/25/2016 12:23 AM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/25/2016 12:23 AM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	7/25/2016 12:23 AM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	7/25/2016 12:23 AM
Surr: Tetrachloro-m-xylene	60.5			44-130		%Rec	1	7/25/2016 12:23 AM
Surr: Decachlorobiphenyl	62.8			60-125		%Rec	1	7/25/2016 12:23 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,500		53	140	350	mg/Kg-dry	100	7/28/2016 2:44 PM
Antimony	3.7		0.27	0.35	0.71	mg/Kg-dry	1	7/28/2016 1:44 PM
Arsenic	2.6		0.51	0.71	1.4	mg/Kg-dry	1	7/28/2016 1:44 PM
Barium	48		0.21	3.5	7.1	mg/Kg-dry	1	7/28/2016 1:44 PM
Beryllium	0.11	J	0.0090	0.035	0.18	mg/Kg-dry	1	7/28/2016 1:44 PM
Cadmium	0.055	J	0.023	0.035	0.18	mg/Kg-dry	1	7/28/2016 1:44 PM
Calcium	1,700		2.1	7.1	35	mg/Kg-dry	1	7/28/2016 1:44 PM
Chromium	21		0.058	0.28	0.35	mg/Kg-dry	1	8/2/2016 1:17 PM
Cobalt	3.5		0.064	0.18	0.71	mg/Kg-dry	1	7/28/2016 1:44 PM
Copper	38		0.29	0.71	3.5	mg/Kg-dry	1	7/28/2016 1:44 PM
Iron	13,000		22	35	110	mg/Kg-dry	10	7/28/2016 2:43 PM
Lead	2.2	J	0.44	0.71	3.5	mg/Kg-dry	1	7/28/2016 1:44 PM
Magnesium	2,400		25	35	350	mg/Kg-dry	10	7/28/2016 2:43 PM
Manganese	210		1.3	1.8	7.1	mg/Kg-dry	10	7/28/2016 2:43 PM
Nickel	11		0.20	0.71	3.5	mg/Kg-dry	1	7/28/2016 1:44 PM
Potassium	1,700		1.7	7.1	14	mg/Kg-dry	1	7/28/2016 1:44 PM
Selenium	1.1	U	0.83	1.1	1.4	mg/Kg-dry	1	7/28/2016 1:44 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	7/28/2016 1:44 PM
Sodium	180		1.4	3.5	35	mg/Kg-dry	1	7/28/2016 1:44 PM
Vanadium	19		0.090	0.71	1.8	mg/Kg-dry	1	7/28/2016 1:44 PM
Zinc	16		0.27	0.35	3.5	mg/Kg-dry	1	8/2/2016 1:17 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.13	J	0.035	0.036	0.15	mg/Kg-dry	10	7/15/2016 2:18 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
1,2-Dichlorobenzene	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
1,3-Dichlorobenzene	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
1,4-Dichlorobenzene	0.019	U	0.0060	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
2,4,5-Trichlorophenol	0.037	U	0.018	0.037	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 10:45:00 AM
Project: Camp Hero
Lab ID: 1606652-007 **Matrix:** Soil
Client Sample ID: 203-SB01-12

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	U	0.021	0.037	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
2,4-Dichlorophenol	0.093	U	0.032	0.093	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
2,4-Dimethyl phenol	0.093	U	0.036	0.093	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
2,4-Dinitrophenol	0.19	UQ	0.11	0.19	0.93	mg/Kg-dry	1	7/1/2016 7:33 AM
2,4-Dinitrotoluene	0.019	U	0.016	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
2-Chloronaphthalene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
2-Chlorophenol	0.093	U	0.039	0.093	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
2-Methylphenol (o-Cresol)	0.093	U	0.040	0.093	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
2-Nitroaniline	0.019	U	0.0091	0.019	0.36	mg/Kg-dry	1	7/1/2016 7:33 AM
2-Nitrophenol	0.093	U	0.046	0.093	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
3,3´-Dichlorobenzidine	0.75	UQ	0.48	0.75	1.1	mg/Kg-dry	1	7/1/2016 7:33 AM
3-Nitroaniline	0.019	U	0.013	0.019	0.36	mg/Kg-dry	1	7/1/2016 7:33 AM
3/4-Methylphenol [m/p-Cresol]	0.093	U	0.066	0.093	0.36	mg/Kg-dry	1	7/1/2016 7:33 AM
4,6-Dinitro-2-methylphenol	0.093	U	0.054	0.093	0.36	mg/Kg-dry	1	7/1/2016 7:33 AM
4-Bromophenyl phenyl ether	0.093	U	0.047	0.093	0.22	mg/Kg-dry	1	7/1/2016 7:33 AM
4-Chloro-3-methylphenol	0.037	U	0.019	0.037	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
4-Chloroaniline [p-Chloroaniline]	0.093	U	0.028	0.093	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
4-Chlorophenyl phenyl ether	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
4-Nitroaniline	0.093	U	0.027	0.093	0.36	mg/Kg-dry	1	7/1/2016 7:33 AM
4-Nitrophenol	0.37	U	0.27	0.37	0.93	mg/Kg-dry	1	7/1/2016 7:33 AM
Benzoic acid	0.37	UY QZ	0.15	0.37	1.1	mg/Kg-dry	1	7/1/2016 7:33 AM
Benzyl alcohol	0.019	U	0.0090	0.019	0.74	mg/Kg-dry	1	7/1/2016 7:33 AM
Bis(2-chloroethoxy) methane	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Bis(2-chloroethyl) ether	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0085	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Bis(2-ethylhexyl) phthalate	0.037	U	0.033	0.037	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Butyl benzyl phthalate	0.037	U	0.022	0.037	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Di-n-butyl phthalate	0.037	U	0.020	0.037	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Dibenzofuran	0.019	U	0.0095	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Dimethyl phthalate	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Hexachlorobutadiene	0.019	UY	0.017	0.019	0.056	mg/Kg-dry	1	7/1/2016 7:33 AM
Hexachloroethane	0.019	U	0.0086	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Isophorone	0.019	U	0.0077	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
N-Nitroso-di-n-propylamine	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
N-Nitrosodimethylamine	0.019	UY	0.0091	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
N-Nitrosodiphenylamine	0.019	U	0.0090	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Pentachlorophenol	0.093	UY Q	0.070	0.093	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Phenol	0.093	U	0.040	0.093	0.18	mg/Kg-dry	1	7/1/2016 7:33 AM
Surr: 2,4,6-Tribromophenol	71.4			39-132		%Rec	1	7/1/2016 7:33 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 10:45:00 AM
Project: Camp Hero
Lab ID: 1606652-007 **Matrix:** Soil
Client Sample ID: 203-SB01-12

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	71.7			44-115		%Rec	1	7/1/2016 7:33 AM
Surr: 2-Fluorophenol	54.3			35-115		%Rec	1	7/1/2016 7:33 AM
Surr: Nitrobenzene-d5	69.8			37-122		%Rec	1	7/1/2016 7:33 AM
Surr: Phenol-d5	56.9			33-122		%Rec	1	7/1/2016 7:33 AM
Surr: Terphenyl-d14	76.2			54-127		%Rec	1	7/1/2016 7:33 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.0036	Y	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
2-Methylnaphthalene	0.0040		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Acenaphthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Acenaphthylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Benzo(a)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Benzo(a)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Benzo(b)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Benzo(k)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Chrysene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Fluorene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Indeno(1,2,3-cd)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Naphthalene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Phenanthrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:25 PM
Surr: 2-Fluorobiphenyl	83.0			46-115		%Rec	3	7/26/2016 7:25 PM
Surr: Nitrobenzene-d5	85.3			44-125		%Rec	3	7/26/2016 7:25 PM
Surr: Terphenyl-d14	90.0			58-133		%Rec	3	7/26/2016 7:25 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00053	U	0.00026	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
1,1,1-Trichloroethane	0.00053	U	0.00019	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
1,1,2,2-Tetrachloroethane	0.00053	U	0.00047	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
1,1,2-Trichloroethane	0.00053	U	0.00035	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
1,1-Dichloroethane	0.00053	U	0.00013	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
1,1-Dichloroethene	0.00053	U	0.00018	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
1,2,3-Trichloropropane	0.00053	U	0.00031	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
1,2-Dibromo-3-chloropropane	0.0018	U	0.0012	0.0018	0.0044	mg/Kg-dry	0.79	6/23/2016 6:14 PM
1,2-Dibromoethane	0.00053	U	0.00040	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
1,2-Dichloroethane	0.00053	U	0.00012	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
1,2-Dichloropropane	0.00053	U	0.00025	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
2-Butanone [MEK]	0.0089	UQ	0.0053	0.0089	0.018	mg/Kg-dry	0.79	6/23/2016 6:14 PM
2-Hexanone	0.0018	U	0.00056	0.0018	0.0044	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Acetone	0.012	Z	0.00081	0.0018	0.0089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Benzene	0.00053	U	0.00024	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 10:45:00 AM
Project:	Camp Hero		
Lab ID:	1606652-007	**Matrix:**	Soil
Client Sample ID:	203-SB01-12		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.00053	U	0.00018	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Bromoform	0.00053	U	0.00029	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Carbon disulfide	0.00095		0.00016	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Carbon tetrachloride	0.00053	U	0.00019	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Chlorobenzene	0.00053	U	0.00017	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Chlorodibromomethane	0.00053	U	0.00031	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Chloroethane	0.00089	U	0.00067	0.00089	0.0018	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Chloroform	0.00053	U	0.00042	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Chloromethane	0.00053	U	0.00030	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
cis-1,2-Dichloroethene	0.00053	U	0.00050	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
cis-1,3-Dichloropropene	0.00053	UQ	0.00014	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Dichlorodifluoromethane [Freon-12]	0.00053	U	0.00034	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Ethylbenzene	0.00053	U	0.00020	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Methylene chloride	0.0018	UBQ	0.00094	0.0018	0.0044	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Styrene	0.00053	UQ	0.00020	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Tetrachloroethene	0.00053	U	0.00028	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Toluene	0.00053	U	0.00024	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
trans-1,2-Dichloroethene	0.00053	U	0.00017	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
trans-1,3-Dichloropropene	0.00053	UQ	0.00020	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Trichloroethene	0.00053	U	0.00034	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Trichlorofluoromethane [Freon-11]	0.00053	U	0.00020	0.00053	0.00089	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Vinyl acetate	0.00053	UZ	0.00042	0.00053	0.0044	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Vinyl chloride	0.00053	U	0.00027	0.00053	0.00071	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Xylene (Total)	0.0016	U	0.00040	0.0016	0.0027	mg/Kg-dry	0.79	6/23/2016 6:14 PM
Surr: 4-Bromofluorobenzene	89.2			79-119		%Rec	0.79	6/23/2016 6:14 PM
Surr: Dibromofluoromethane	89.4			78-119		%Rec	0.79	6/23/2016 6:14 PM
Surr: Toluene-d8	85.4			85-116		%Rec	0.79	6/23/2016 6:14 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	11	1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606652-008 **Matrix:** Soil
Client Sample ID: 203-SB02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	6/28/2016 6:54 AM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	6/28/2016 6:54 AM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	6/28/2016 6:54 AM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	6/28/2016 6:54 AM
Aroclor 1248	0.0073	U	0.0038	0.0073	0.036	mg/Kg-dry	1	6/28/2016 6:54 AM
Aroclor 1254	0.0073	U	0.0046	0.0073	0.036	mg/Kg-dry	1	6/28/2016 6:54 AM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	6/28/2016 6:54 AM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	6/28/2016 6:54 AM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	6/28/2016 6:54 AM
Surr: Tetrachloro-m-xylene	86.5			44-130		%Rec	1	6/28/2016 6:54 AM
Surr: Decachlorobiphenyl	101			60-125		%Rec	1	6/28/2016 6:54 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		52	140	340	mg/Kg-dry	100	7/29/2016 1:44 PM
Antimony	3.4		0.26	0.34	0.69	mg/Kg-dry	1	7/29/2016 12:32 PM
Arsenic	2.3		0.50	0.69	1.4	mg/Kg-dry	1	7/29/2016 12:32 PM
Barium	41		0.20	3.4	6.9	mg/Kg-dry	1	7/29/2016 12:32 PM
Beryllium	0.15	J	0.0087	0.034	0.17	mg/Kg-dry	1	7/29/2016 12:32 PM
Cadmium	0.034	U	0.023	0.034	0.17	mg/Kg-dry	1	7/29/2016 12:32 PM
Calcium	550		2.0	6.9	34	mg/Kg-dry	1	7/29/2016 12:32 PM
Chromium	14		0.057	0.28	0.34	mg/Kg-dry	1	8/1/2016 4:35 PM
Cobalt	3.4		0.062	0.17	0.69	mg/Kg-dry	1	7/29/2016 12:32 PM
Copper	37		0.29	0.69	3.4	mg/Kg-dry	1	7/29/2016 12:32 PM
Iron	14,000		22	34	100	mg/Kg-dry	10	7/29/2016 1:42 PM
Lead	2.3	J	0.43	0.69	3.4	mg/Kg-dry	1	7/29/2016 12:32 PM
Magnesium	2,900		24	34	340	mg/Kg-dry	10	7/29/2016 1:42 PM
Manganese	170		0.13	0.17	0.69	mg/Kg-dry	1	7/29/2016 12:32 PM
Nickel	8.3		0.19	0.69	3.4	mg/Kg-dry	1	7/29/2016 12:32 PM
Potassium	1,900		16	69	140	mg/Kg-dry	10	7/29/2016 1:42 PM
Selenium	1.0	U	0.80	1.0	1.4	mg/Kg-dry	1	7/29/2016 12:32 PM
Silver	0.17	U	0.056	0.17	0.69	mg/Kg-dry	1	7/29/2016 12:32 PM
Sodium	87		1.4	3.4	34	mg/Kg-dry	1	7/29/2016 12:32 PM
Vanadium	22		0.087	0.69	1.7	mg/Kg-dry	1	7/29/2016 12:32 PM
Zinc	19		0.27	0.34	3.4	mg/Kg-dry	1	8/1/2016 4:35 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	J	0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 3:41 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
1,2-Dichlorobenzene	0.018	U	0.0077	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
1,3-Dichlorobenzene	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
1,4-Dichlorobenzene	0.018	U	0.0057	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606652-008 **Matrix:** Soil
Client Sample ID: 203-SB02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
2,4-Dichlorophenol	0.090	U	0.031	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
2,4-Dimethyl phenol	0.090	U	0.034	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
2,4-Dinitrophenol	0.18	UQ	0.10	0.18	0.89	mg/Kg-dry	1	7/1/2016 7:58 AM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
2-Chlorophenol	0.090	U	0.037	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
2-Methylphenol (o-Cresol)	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
2-Nitroaniline	0.018	U	0.0087	0.018	0.34	mg/Kg-dry	1	7/1/2016 7:58 AM
2-Nitrophenol	0.090	U	0.044	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
3,3´-Dichlorobenzidine	0.72	UQ	0.46	0.72	1.1	mg/Kg-dry	1	7/1/2016 7:58 AM
3-Nitroaniline	0.018	U	0.013	0.018	0.34	mg/Kg-dry	1	7/1/2016 7:58 AM
3/4-Methylphenol [m/p-Cresol]	0.090	U	0.064	0.090	0.34	mg/Kg-dry	1	7/1/2016 7:58 AM
4,6-Dinitro-2-methylphenol	0.090	U	0.052	0.090	0.34	mg/Kg-dry	1	7/1/2016 7:58 AM
4-Bromophenyl phenyl ether	0.090	U	0.046	0.090	0.22	mg/Kg-dry	1	7/1/2016 7:58 AM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
4-Chloroaniline [p-Chloroaniline]	0.090	U	0.027	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
4-Nitroaniline	0.090	U	0.026	0.090	0.34	mg/Kg-dry	1	7/1/2016 7:58 AM
4-Nitrophenol	0.36	U	0.26	0.36	0.89	mg/Kg-dry	1	7/1/2016 7:58 AM
Benzoic acid	0.36	UY QZ	0.15	0.36	1.1	mg/Kg-dry	1	7/1/2016 7:58 AM
Benzyl alcohol	0.018	U	0.0086	0.018	0.71	mg/Kg-dry	1	7/1/2016 7:58 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0082	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Dibenzofuran	0.018	U	0.0091	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Hexachlorobenzene	0.018	U	0.0097	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Hexachlorobutadiene	0.018	UY	0.016	0.018	0.054	mg/Kg-dry	1	7/1/2016 7:58 AM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Isophorone	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
N-Nitrosodimethylamine	0.018	UY	0.0087	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
N-Nitrosodiphenylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Pentachlorophenol	0.090	UY Q	0.067	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Phenol	0.090	U	0.038	0.090	0.17	mg/Kg-dry	1	7/1/2016 7:58 AM
Surr: 2,4,6-Tribromophenol	36.8	JQ		39-132		%Rec	1	7/1/2016 7:58 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606652-008 **Matrix:** Soil
Client Sample ID: 203-SB02-02

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	54.5			44-115		%Rec	1	7/1/2016 7:58 AM
Surr: 2-Fluorophenol	34.3	JQ		35-115		%Rec	1	7/1/2016 7:58 AM
Surr: Nitrobenzene-d5	54.3			37-122		%Rec	1	7/1/2016 7:58 AM
Surr: Phenol-d5	35.8	J		33-122		%Rec	1	7/1/2016 7:58 AM
Surr: Terphenyl-d14	56.3			54-127		%Rec	1	7/1/2016 7:58 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0095	Y	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
2-Methylnaphthalene	0.010		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Acenaphthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Acenaphthylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Benzo(a)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Benzo(a)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Benzo(b)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Benzo(g,h,i)perylene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Benzo(k)fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Chrysene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Dibenzo(a,h)anthracene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Fluoranthene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Fluorene	0.0033		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Indeno(1,2,3-cd)pyrene	0.0022	U	0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Naphthalene	0.0026		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Phenanthrene	0.0051		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Pyrene	0.0022		0.0022	0.0022	0.0022	mg/Kg-dry	3	7/26/2016 7:53 PM
Surr: 2-Fluorobiphenyl	93.7			46-115		%Rec	3	7/26/2016 7:53 PM
Surr: Nitrobenzene-d5	103			44-125		%Rec	3	7/26/2016 7:53 PM
Surr: Terphenyl-d14	98.4			58-133		%Rec	3	7/26/2016 7:53 PM
TCL for Low Level Soil			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.00058	U	0.00028	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
1,1,1-Trichloroethane	0.00058	U	0.00020	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
1,1,2,2-Tetrachloroethane	0.00058	U	0.00051	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
1,1,2-Trichloroethane	0.00058	U	0.00038	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
1,1-Dichloroethane	0.00058	U	0.00014	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
1,1-Dichloroethene	0.00058	U	0.00020	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
1,2,3-Trichloropropane	0.00058	U	0.00034	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
1,2-Dibromo-3-chloropropane	0.0019	U	0.0014	0.0019	0.0048	mg/Kg-dry	0.88	6/23/2016 6:41 PM
1,2-Dibromoethane	0.00058	U	0.00043	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
1,2-Dichloroethane	0.00058	U	0.00013	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
1,2-Dichloropropane	0.00058	U	0.00027	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
2-Butanone [MEK]	0.0096	UQ	0.0057	0.0096	0.019	mg/Kg-dry	0.88	6/23/2016 6:41 PM
2-Hexanone	0.0019	U	0.00060	0.0019	0.0048	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Acetone	0.075	Z	0.00088	0.0019	0.0096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Benzene	0.00058	U	0.00026	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 11:15:00 AM
Project:	Camp Hero		
Lab ID:	1606652-008	**Matrix:**	Soil
Client Sample ID:	203-SB02-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.00058	U	0.00019	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Bromoform	0.00058	U	0.00031	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Carbon disulfide	0.00058	U	0.00018	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Carbon tetrachloride	0.00058	U	0.00021	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Chlorobenzene	0.00058	U	0.00018	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Chlorodibromomethane	0.00058	U	0.00033	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Chloroethane	0.00096	U	0.00073	0.00096	0.0019	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Chloroform	0.00058	U	0.00046	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Chloromethane	0.00058	U	0.00033	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
cis-1,2-Dichloroethene	0.00058	U	0.00054	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
cis-1,3-Dichloropropene	0.00058	UQ	0.00016	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Dichlorodifluoromethane [Freon-12]	0.00058	U	0.00037	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Ethylbenzene	0.00058	U	0.00021	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Methylene chloride	0.0019	UBQ	0.0010	0.0019	0.0048	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Styrene	0.00058	UQ	0.00022	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Tetrachloroethene	0.00058	U	0.00031	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Toluene	0.00058	U	0.00026	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
trans-1,2-Dichloroethene	0.00058	U	0.00018	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
trans-1,3-Dichloropropene	0.00058	UQ	0.00022	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Trichloroethene	0.00058	U	0.00037	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Trichlorofluoromethane [Freon-11]	0.00058	U	0.00022	0.00058	0.00096	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Vinyl acetate	0.00058	UZ	0.00046	0.00058	0.0048	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Vinyl chloride	0.00058	U	0.00030	0.00058	0.00077	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Xylene (Total)	0.0017	U	0.00044	0.0017	0.0029	mg/Kg-dry	0.88	6/23/2016 6:41 PM
Surr: 4-Bromofluorobenzene	91.0			79-119		%Rec	0.88	6/23/2016 6:41 PM
Surr: Dibromofluoromethane	93.8			78-119		%Rec	0.88	6/23/2016 6:41 PM
Surr: Toluene-d8	86.2			85-116		%Rec	0.88	6/23/2016 6:41 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	8.7	1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 11:40:00 AM
Project:	Camp Hero		
Lab ID:	1606652-009	**Matrix:**	Soil
Client Sample ID:	203-SB03-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0070	U	0.0032	0.0070	0.035	mg/Kg-dry	1	6/28/2016 7:18 AM
Aroclor 1221	0.0070	U	0.0032	0.0070	0.035	mg/Kg-dry	1	6/28/2016 7:18 AM
Aroclor 1232	0.0070	U	0.0047	0.0070	0.035	mg/Kg-dry	1	6/28/2016 7:18 AM
Aroclor 1242	0.0070	U	0.0039	0.0070	0.035	mg/Kg-dry	1	6/28/2016 7:18 AM
Aroclor 1248	0.0070	U	0.0037	0.0070	0.035	mg/Kg-dry	1	6/28/2016 7:18 AM
Aroclor 1254	0.0070	U	0.0045	0.0070	0.035	mg/Kg-dry	1	6/28/2016 7:18 AM
Aroclor 1260	0.0070	U	0.0031	0.0070	0.035	mg/Kg-dry	1	6/28/2016 7:18 AM
Aroclor 1262	0.0070	U	0.0031	0.0070	0.035	mg/Kg-dry	1	6/28/2016 7:18 AM
Aroclor 1268	0.0070	U	0.0026	0.0070	0.035	mg/Kg-dry	1	6/28/2016 7:18 AM
Surr: Tetrachloro-m-xylene	54.6			44-130		%Rec	1	6/28/2016 7:18 AM
Surr: Decachlorobiphenyl	72.0			60-125		%Rec	1	6/28/2016 7:18 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	9,100		51	140	340	mg/Kg-dry	100	7/29/2016 1:47 PM
Antimony	3.4		0.25	0.34	0.68	mg/Kg-dry	1	7/29/2016 12:34 PM
Arsenic	1.6		0.49	0.68	1.4	mg/Kg-dry	1	7/29/2016 12:34 PM
Barium	47		0.20	3.4	6.8	mg/Kg-dry	1	7/29/2016 12:34 PM
Beryllium	0.060	J	0.0086	0.034	0.17	mg/Kg-dry	1	7/29/2016 12:34 PM
Cadmium	0.034	U	0.022	0.034	0.17	mg/Kg-dry	1	7/29/2016 12:34 PM
Calcium	490		2.0	6.8	34	mg/Kg-dry	1	7/29/2016 12:34 PM
Chromium	12		0.056	0.27	0.34	mg/Kg-dry	1	8/1/2016 4:37 PM
Cobalt	3.5		0.061	0.17	0.68	mg/Kg-dry	1	7/29/2016 12:34 PM
Copper	31		0.28	0.68	3.4	mg/Kg-dry	1	7/29/2016 12:34 PM
Iron	13,000		21	34	100	mg/Kg-dry	10	7/29/2016 1:45 PM
Lead	1.8	J	0.42	0.68	3.4	mg/Kg-dry	1	7/29/2016 12:34 PM
Magnesium	2,200		24	34	340	mg/Kg-dry	10	7/29/2016 1:45 PM
Manganese	240		1.2	1.7	6.8	mg/Kg-dry	10	7/29/2016 1:45 PM
Nickel	6.5		0.19	0.68	3.4	mg/Kg-dry	1	7/29/2016 12:34 PM
Potassium	1,400		1.6	6.8	14	mg/Kg-dry	1	7/29/2016 12:34 PM
Selenium	1.0	U	0.79	1.0	1.4	mg/Kg-dry	1	7/29/2016 12:34 PM
Silver	0.17	U	0.055	0.17	0.68	mg/Kg-dry	1	7/29/2016 12:34 PM
Sodium	89		1.4	3.4	34	mg/Kg-dry	1	7/29/2016 12:34 PM
Vanadium	17		0.086	0.68	1.7	mg/Kg-dry	1	7/29/2016 12:34 PM
Zinc	16		0.26	0.34	3.4	mg/Kg-dry	1	8/1/2016 4:37 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.17		0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 3:42 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
1,2-Dichlorobenzene	0.018	U	0.0076	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
1,3-Dichlorobenzene	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
1,4-Dichlorobenzene	0.018	U	0.0056	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
2,4,5-Trichlorophenol	0.035	U	0.017	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:40:00 AM
Project: Camp Hero
Lab ID: 1606652-009 **Matrix:** Soil
Client Sample ID: 203-SB03-04

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.035	U	0.020	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
2,4-Dichlorophenol	0.088	U	0.030	0.088	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
2,4-Dimethyl phenol	0.088	U	0.034	0.088	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
2,4-Dinitrophenol	0.18	UQ	0.10	0.18	0.88	mg/Kg-dry	1	7/1/2016 8:23 AM
2,4-Dinitrotoluene	0.018	U	0.015	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
2-Chlorophenol	0.088	U	0.037	0.088	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
2-Methylphenol (o-Cresol)	0.088	U	0.038	0.088	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
2-Nitroaniline	0.018	U	0.0086	0.018	0.34	mg/Kg-dry	1	7/1/2016 8:23 AM
2-Nitrophenol	0.088	U	0.044	0.088	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
3,3´-Dichlorobenzidine	0.70	UQ	0.45	0.70	1.1	mg/Kg-dry	1	7/1/2016 8:23 AM
3-Nitroaniline	0.018	U	0.012	0.018	0.34	mg/Kg-dry	1	7/1/2016 8:23 AM
3/4-Methylphenol [m/p-Cresol]	0.088	U	0.063	0.088	0.34	mg/Kg-dry	1	7/1/2016 8:23 AM
4,6-Dinitro-2-methylphenol	0.088	U	0.051	0.088	0.34	mg/Kg-dry	1	7/1/2016 8:23 AM
4-Bromophenyl phenyl ether	0.088	U	0.045	0.088	0.21	mg/Kg-dry	1	7/1/2016 8:23 AM
4-Chloro-3-methylphenol	0.035	U	0.018	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
4-Chloroaniline [p-Chloroaniline]	0.088	U	0.027	0.088	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
4-Nitroaniline	0.088	U	0.025	0.088	0.34	mg/Kg-dry	1	7/1/2016 8:23 AM
4-Nitrophenol	0.35	U	0.25	0.35	0.88	mg/Kg-dry	1	7/1/2016 8:23 AM
Benzoic acid	0.35	UY QZ	0.14	0.35	1.1	mg/Kg-dry	1	7/1/2016 8:23 AM
Benzyl alcohol	0.018	U	0.0085	0.018	0.70	mg/Kg-dry	1	7/1/2016 8:23 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Bis(2-chloroethyl) ether	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0080	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Bis(2-ethylhexyl) phthalate	0.035	U	0.031	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Butyl benzyl phthalate	0.035	U	0.021	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Di-n-butyl phthalate	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Dibenzofuran	0.018	U	0.0090	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Hexachlorobenzene	0.018	U	0.0095	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Hexachlorobutadiene	0.018	UY	0.016	0.018	0.053	mg/Kg-dry	1	7/1/2016 8:23 AM
Hexachloroethane	0.018	U	0.0081	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Isophorone	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
N-Nitroso-di-n-propylamine	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
N-Nitrosodimethylamine	0.018	UY	0.0086	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
N-Nitrosodiphenylamine	0.018	U	0.0085	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Pentachlorophenol	0.088	UY Q	0.066	0.088	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Phenol	0.088	U	0.038	0.088	0.17	mg/Kg-dry	1	7/1/2016 8:23 AM
Surr: 2,4,6-Tribromophenol	43.7			39-132		%Rec	1	7/1/2016 8:23 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:40:00 AM
Project: Camp Hero
Lab ID: 1606652-009 **Matrix:** Soil
Client Sample ID: 203-SB03-04

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	75.6			44-115		%Rec	1	7/1/2016 8:23 AM
Surr: 2-Fluorophenol	44.3			35-115		%Rec	1	7/1/2016 8:23 AM
Surr: Nitrobenzene-d5	75.2			37-122		%Rec	1	7/1/2016 8:23 AM
Surr: Phenol-d5	50.8			33-122		%Rec	1	7/1/2016 8:23 AM
Surr: Terphenyl-d14	78.7			54-127		%Rec	1	7/1/2016 8:23 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	0.015	Y	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
2-Methylnaphthalene	0.016		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Acenaphthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Acenaphthylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Benzo(a)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Benzo(a)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Benzo(b)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Benzo(g,h,i)perylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Benzo(k)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Chrysene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Dibenzo(a,h)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Fluorene	0.0030		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Indeno(1,2,3-cd)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Naphthalene	0.0035		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Phenanthrene	0.0021		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:21 PM
Surr: 2-Fluorobiphenyl	88.0			46-115		%Rec	3	7/26/2016 8:21 PM
Surr: Nitrobenzene-d5	94.5			44-125		%Rec	3	7/26/2016 8:21 PM
Surr: Terphenyl-d14	93.9			58-133		%Rec	3	7/26/2016 8:21 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00056	U	0.00027	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
1,1,1-Trichloroethane	0.00056	U	0.00020	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
1,1,2,2-Tetrachloroethane	0.00056	U	0.00049	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
1,1,2-Trichloroethane	0.00056	U	0.00036	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
1,1-Dichloroethane	0.00056	U	0.00014	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
1,1-Dichloroethene	0.00056	U	0.00019	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
1,2,3-Trichloropropane	0.00056	U	0.00033	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
1,2-Dibromo-3-chloropropane	0.0019	UQ	0.0013	0.0019	0.0046	mg/Kg-dry	0.87	6/29/2016 9:13 PM
1,2-Dibromoethane	0.00056	U	0.00042	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
1,2-Dichloroethane	0.00056	U	0.00012	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
1,2-Dichloropropane	0.00056	U	0.00026	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
2-Butanone [MEK]	0.0093	UQ	0.0055	0.0093	0.019	mg/Kg-dry	0.87	6/29/2016 9:13 PM
2-Hexanone	0.0019	UB QZ	0.00058	0.0019	0.0046	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Acetone	0.0058	JQ	0.00084	0.0019	0.0093	mg/Kg-dry	0.87	6/29/2016 9:13 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 11:40:00 AM
Project:	Camp Hero		
Lab ID:	1606652-009	**Matrix:**	Soil
Client Sample ID:	203-SB03-04		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00056	U	0.00025	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Bromodichloromethane	0.00056	U	0.00019	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Bromoform	0.00056	U	0.00030	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Carbon disulfide	0.00056	U	0.00017	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Carbon tetrachloride	0.00056	U	0.00020	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Chlorobenzene	0.00056	U	0.00017	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Chlorodibromomethane	0.00056	U	0.00032	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Chloroethane	0.00093	U	0.00070	0.00093	0.0019	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Chloroform	0.00056	U	0.00044	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Chloromethane	0.0014	BQ Z	0.00032	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
cis-1,2-Dichloroethene	0.00056	U	0.00052	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
cis-1,3-Dichloropropene	0.00056	U	0.00015	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Dichlorodifluoromethane [Freon-12]	0.00056	UZ	0.00035	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Ethylbenzene	0.00056	U	0.00021	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Methylene chloride	0.0019	UQ	0.00098	0.0019	0.0046	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Styrene	0.00056	U	0.00021	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Tetrachloroethene	0.00056	U	0.00030	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Toluene	0.00056	U	0.00025	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
trans-1,2-Dichloroethene	0.00056	U	0.00017	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
trans-1,3-Dichloropropene	0.00056	U	0.00021	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Trichloroethene	0.00056	U	0.00035	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Trichlorofluoromethane [Freon-11]	0.00056	U	0.00021	0.00056	0.00093	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Vinyl acetate	0.00056	UZ	0.00044	0.00056	0.0046	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Vinyl chloride	0.00056	U	0.00029	0.00056	0.00074	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Xylene (Total)	0.0017	U	0.00042	0.0017	0.0028	mg/Kg-dry	0.87	6/29/2016 9:13 PM
Surr: 4-Bromofluorobenzene	85.7			79-119		%Rec	0.87	6/29/2016 9:13 PM
Surr: Dibromofluoromethane	99.2			78-119		%Rec	0.87	6/29/2016 9:13 PM
Surr: Toluene-d8	86.9			85-116		%Rec	0.87	6/29/2016 9:13 PM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	5.9		1.0	1.0	1.0	wt%	1	6/23/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606652-010	**Matrix:**	Soil
Client Sample ID:	203-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0071	U	0.0032	0.0071	0.035	mg/Kg-dry	1	6/28/2016 7:42 AM
Aroclor 1221	0.0071	U	0.0032	0.0071	0.035	mg/Kg-dry	1	6/28/2016 7:42 AM
Aroclor 1232	0.0071	U	0.0048	0.0071	0.035	mg/Kg-dry	1	6/28/2016 7:42 AM
Aroclor 1242	0.0071	U	0.0039	0.0071	0.035	mg/Kg-dry	1	6/28/2016 7:42 AM
Aroclor 1248	0.0071	U	0.0037	0.0071	0.035	mg/Kg-dry	1	6/28/2016 7:42 AM
Aroclor 1254	0.0071	U	0.0045	0.0071	0.035	mg/Kg-dry	1	6/28/2016 7:42 AM
Aroclor 1260	0.0071	U	0.0031	0.0071	0.035	mg/Kg-dry	1	6/28/2016 7:42 AM
Aroclor 1262	0.0071	U	0.0031	0.0071	0.035	mg/Kg-dry	1	6/28/2016 7:42 AM
Aroclor 1268	0.0071	U	0.0026	0.0071	0.035	mg/Kg-dry	1	6/28/2016 7:42 AM
Surr: Tetrachloro-m-xylene	58.6			44-130		%Rec	1	6/28/2016 7:42 AM
Surr: Decachlorobiphenyl	74.3			60-125		%Rec	1	6/28/2016 7:42 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	8,900		51	140	340	mg/Kg-dry	100	7/28/2016 3:04 PM
Antimony	3.5		0.26	0.34	0.69	mg/Kg-dry	1	7/28/2016 1:45 PM
Arsenic	1.4		0.50	0.69	1.4	mg/Kg-dry	1	7/28/2016 1:45 PM
Barium	59		0.20	3.4	6.9	mg/Kg-dry	1	7/28/2016 1:45 PM
Beryllium	0.14	J	0.0087	0.034	0.17	mg/Kg-dry	1	7/28/2016 1:45 PM
Cadmium	0.031	J	0.023	0.034	0.17	mg/Kg-dry	1	7/28/2016 1:45 PM
Calcium	370		2.0	6.9	34	mg/Kg-dry	1	7/28/2016 1:45 PM
Chromium	220		0.56	2.7	3.4	mg/Kg-dry	10	8/2/2016 1:42 PM
Cobalt	3.4		0.062	0.17	0.69	mg/Kg-dry	1	7/28/2016 1:45 PM
Copper	34		0.29	0.69	3.4	mg/Kg-dry	1	7/28/2016 1:45 PM
Iron	15,000		21	34	100	mg/Kg-dry	10	7/28/2016 3:03 PM
Lead	3.0	J	0.43	0.69	3.4	mg/Kg-dry	1	7/28/2016 1:45 PM
Magnesium	2,000		24	34	340	mg/Kg-dry	10	7/28/2016 3:03 PM
Manganese	390		1.3	1.7	6.9	mg/Kg-dry	10	7/28/2016 3:03 PM
Nickel	5.4		0.19	0.69	3.4	mg/Kg-dry	1	7/28/2016 1:45 PM
Potassium	1,500		1.6	6.9	14	mg/Kg-dry	1	7/28/2016 1:45 PM
Selenium	1.0	U	0.80	1.0	1.4	mg/Kg-dry	1	7/28/2016 1:45 PM
Silver	0.17	U	0.056	0.17	0.69	mg/Kg-dry	1	7/28/2016 1:45 PM
Sodium	80		1.4	3.4	34	mg/Kg-dry	1	7/28/2016 1:45 PM
Vanadium	18		0.087	0.69	1.7	mg/Kg-dry	1	7/28/2016 1:45 PM
Zinc	16		0.27	0.34	3.4	mg/Kg-dry	1	8/2/2016 1:18 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.11	J	0.035	0.036	0.14	mg/Kg-dry	10	7/15/2016 2:19 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.0099	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
1,2-Dichlorobenzene	0.018	U	0.0077	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
1,3-Dichlorobenzene	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
1,4-Dichlorobenzene	0.018	U	0.0057	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
2,4,5-Trichlorophenol	0.035	U	0.018	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:45:00 AM
Project: Camp Hero
Lab ID: 1606652-010 **Matrix:** Soil
Client Sample ID: 203-SB03-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.035	U	0.020	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
2,4-Dichlorophenol	0.089	U	0.030	0.089	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
2,4-Dimethyl phenol	0.089	U	0.034	0.089	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
2,4-Dinitrophenol	0.18	UQ	0.10	0.18	0.88	mg/Kg-dry	1	7/1/2016 8:48 AM
2,4-Dinitrotoluene	0.018	U	0.015	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
2-Chlorophenol	0.089	U	0.037	0.089	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
2-Methylphenol (o-Cresol)	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
2-Nitroaniline	0.018	U	0.0086	0.018	0.34	mg/Kg-dry	1	7/1/2016 8:48 AM
2-Nitrophenol	0.089	U	0.044	0.089	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
3,3´-Dichlorobenzidine	0.71	UQ	0.45	0.71	1.1	mg/Kg-dry	1	7/1/2016 8:48 AM
3-Nitroaniline	0.018	U	0.012	0.018	0.34	mg/Kg-dry	1	7/1/2016 8:48 AM
3/4-Methylphenol [m/p-Cresol]	0.089	U	0.063	0.089	0.34	mg/Kg-dry	1	7/1/2016 8:48 AM
4,6-Dinitro-2-methylphenol	0.089	U	0.051	0.089	0.34	mg/Kg-dry	1	7/1/2016 8:48 AM
4-Bromophenyl phenyl ether	0.089	U	0.045	0.089	0.21	mg/Kg-dry	1	7/1/2016 8:48 AM
4-Chloro-3-methylphenol	0.035	U	0.018	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
4-Chloroaniline [p-Chloroaniline]	0.089	U	0.027	0.089	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
4-Nitroaniline	0.089	U	0.026	0.089	0.34	mg/Kg-dry	1	7/1/2016 8:48 AM
4-Nitrophenol	0.35	U	0.25	0.35	0.88	mg/Kg-dry	1	7/1/2016 8:48 AM
Benzoic acid	0.35	UY QZ	0.14	0.35	1.1	mg/Kg-dry	1	7/1/2016 8:48 AM
Benzyl alcohol	0.018	U	0.0085	0.018	0.70	mg/Kg-dry	1	7/1/2016 8:48 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Bis(2-chloroethyl) ether	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0081	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Bis(2-ethylhexyl) phthalate	0.035	U	0.031	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Butyl benzyl phthalate	0.035	U	0.021	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Di-n-butyl phthalate	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Dibenzofuran	0.018	U	0.0090	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Hexachlorobenzene	0.018	U	0.0096	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Hexachlorobutadiene	0.018	UY	0.016	0.018	0.053	mg/Kg-dry	1	7/1/2016 8:48 AM
Hexachloroethane	0.018	U	0.0082	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Isophorone	0.018	U	0.0073	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
N-Nitroso-di-n-propylamine	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
N-Nitrosodimethylamine	0.018	UY	0.0086	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
N-Nitrosodiphenylamine	0.018	U	0.0086	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Pentachlorophenol	0.089	UY Q	0.067	0.089	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Phenol	0.089	U	0.038	0.089	0.17	mg/Kg-dry	1	7/1/2016 8:48 AM
Surr: 2,4,6-Tribromophenol	55.6			39-132		%Rec	1	7/1/2016 8:48 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:45:00 AM
Project: Camp Hero
Lab ID: 1606652-010 **Matrix:** Soil
Client Sample ID: 203-SB03-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	66.4			44-115		%Rec	1	7/1/2016 8:48 AM
Surr: 2-Fluorophenol	48.4			35-115		%Rec	1	7/1/2016 8:48 AM
Surr: Nitrobenzene-d5	66.7			37-122		%Rec	1	7/1/2016 8:48 AM
Surr: Phenol-d5	52.4			33-122		%Rec	1	7/1/2016 8:48 AM
Surr: Terphenyl-d14	70.1			54-127		%Rec	1	7/1/2016 8:48 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0078	Y	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
2-Methylnaphthalene	0.0084		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Acenaphthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Acenaphthylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Benzo(a)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Benzo(a)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Benzo(b)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Benzo(g,h,i)perylene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Benzo(k)fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Chrysene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Dibenzo(a,h)anthracene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Fluoranthene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Fluorene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Indeno(1,2,3-cd)pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Naphthalene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Phenanthrene	0.0032		0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Pyrene	0.0021	U	0.0021	0.0021	0.0021	mg/Kg-dry	3	7/26/2016 8:48 PM
Surr: 2-Fluorobiphenyl	82.2			46-115		%Rec	3	7/26/2016 8:48 PM
Surr: Nitrobenzene-d5	84.4			44-125		%Rec	3	7/26/2016 8:48 PM
Surr: Terphenyl-d14	86.8			58-133		%Rec	3	7/26/2016 8:48 PM
TCL for Low Level Soil			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.00061	U	0.00029	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
1,1,1-Trichloroethane	0.00061	U	0.00021	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
1,1,2,2-Tetrachloroethane	0.00061	U	0.00054	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
1,1,2-Trichloroethane	0.00061	U	0.00039	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
1,1-Dichloroethane	0.00061	U	0.00015	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
1,1-Dichloroethene	0.00061	U	0.00021	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
1,2,3-Trichloropropane	0.00061	U	0.00036	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
1,2-Dibromo-3-chloropropane	0.0020	UQ	0.0014	0.0020	0.0051	mg/Kg-dry	0.94	6/29/2016 9:39 PM
1,2-Dibromoethane	0.00061	U	0.00046	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
1,2-Dichloroethane	0.00061	U	0.00014	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
1,2-Dichloropropane	0.00061	U	0.00028	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
2-Butanone [MEK]	0.010	UQ	0.0060	0.010	0.020	mg/Kg-dry	0.94	6/29/2016 9:39 PM
2-Hexanone	0.0020	UB QZ	0.00063	0.0020	0.0051	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Acetone	0.0020	UQ	0.00092	0.0020	0.010	mg/Kg-dry	0.94	6/29/2016 9:39 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606652-010	**Matrix:**	Soil
Client Sample ID:	203-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00061	U	0.00027	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Bromodichloromethane	0.00061	U	0.00020	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Bromoform	0.00061	U	0.00033	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Carbon disulfide	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Carbon tetrachloride	0.00061	U	0.00022	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Chlorobenzene	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Chlorodibromomethane	0.00061	U	0.00035	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Chloroethane	0.0010	U	0.00077	0.0010	0.0020	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Chloroform	0.00061	U	0.00048	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Chloromethane	0.0013	BQ Z	0.00035	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
cis-1,2-Dichloroethene	0.00061	U	0.00057	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
cis-1,3-Dichloropropene	0.00061	U	0.00016	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Dichlorodifluoromethane [Freon-12]	0.00061	UZ	0.00039	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Ethylbenzene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Methylene chloride	0.0020	UQ	0.0011	0.0020	0.0051	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Styrene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Tetrachloroethene	0.00061	U	0.00033	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Toluene	0.00061	U	0.00027	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
trans-1,2-Dichloroethene	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
trans-1,3-Dichloropropene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Trichloroethene	0.00061	U	0.00039	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Trichlorofluoromethane [Freon-11]	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Vinyl acetate	0.00061	UZ	0.00048	0.00061	0.0051	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Vinyl chloride	0.00061	U	0.00031	0.00061	0.00081	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0030	mg/Kg-dry	0.94	6/29/2016 9:39 PM
Surr: 4-Bromofluorobenzene	86.6			79-119		%Rec	0.94	6/29/2016 9:39 PM
Surr: Dibromofluoromethane	99.5			78-119		%Rec	0.94	6/29/2016 9:39 PM
Surr: Toluene-d8	88.1			85-116		%Rec	0.94	6/29/2016 9:39 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	7.2	1.0	1.0	1.0	wt%	1	6/24/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606652-011	**Matrix:**	Soil
Client Sample ID:	203-SB04-11		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	6/28/2016 8:07 AM
Aroclor 1221	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	6/28/2016 8:07 AM
Aroclor 1232	0.0072	U	0.0048	0.0072	0.036	mg/Kg-dry	1	6/28/2016 8:07 AM
Aroclor 1242	0.0072	U	0.0040	0.0072	0.036	mg/Kg-dry	1	6/28/2016 8:07 AM
Aroclor 1248	0.0072	U	0.0038	0.0072	0.036	mg/Kg-dry	1	6/28/2016 8:07 AM
Aroclor 1254	0.0072	U	0.0046	0.0072	0.036	mg/Kg-dry	1	6/28/2016 8:07 AM
Aroclor 1260	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	6/28/2016 8:07 AM
Aroclor 1262	0.0072	U	0.0032	0.0072	0.036	mg/Kg-dry	1	6/28/2016 8:07 AM
Aroclor 1268	0.0072	U	0.0026	0.0072	0.036	mg/Kg-dry	1	6/28/2016 8:07 AM
Surr: Tetrachloro-m-xylene	55.6			44-130		%Rec	1	6/28/2016 8:07 AM
Surr: Decachlorobiphenyl	72.3			60-125		%Rec	1	6/28/2016 8:07 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	16,000		54	140	360	mg/Kg-dry	100	7/29/2016 1:50 PM
Antimony	5.7		0.27	0.36	0.72	mg/Kg-dry	1	7/29/2016 12:35 PM
Arsenic	2.9		0.52	0.72	1.4	mg/Kg-dry	1	7/29/2016 12:35 PM
Barium	53		0.21	3.6	7.2	mg/Kg-dry	1	7/29/2016 12:35 PM
Beryllium	0.23		0.0091	0.036	0.18	mg/Kg-dry	1	7/29/2016 12:35 PM
Cadmium	0.036	U	0.024	0.036	0.18	mg/Kg-dry	1	7/29/2016 12:35 PM
Calcium	630		2.1	7.2	36	mg/Kg-dry	1	7/29/2016 12:35 PM
Chromium	22		0.059	0.29	0.36	mg/Kg-dry	1	8/1/2016 4:38 PM
Cobalt	5.8		0.065	0.18	0.72	mg/Kg-dry	1	7/29/2016 12:35 PM
Copper	45		0.30	0.72	3.6	mg/Kg-dry	1	7/29/2016 12:35 PM
Iron	18,000		230	360	1,100	mg/Kg-dry	100	7/29/2016 1:50 PM
Lead	3.1	J	0.45	0.72	3.6	mg/Kg-dry	1	7/29/2016 12:35 PM
Magnesium	4,100		25	36	360	mg/Kg-dry	10	7/29/2016 1:48 PM
Manganese	260		1.3	1.8	7.2	mg/Kg-dry	10	7/29/2016 1:48 PM
Nickel	14		0.20	0.72	3.6	mg/Kg-dry	1	7/29/2016 12:35 PM
Potassium	3,000		17	72	140	mg/Kg-dry	10	7/29/2016 1:48 PM
Selenium	1.1	U	0.84	1.1	1.4	mg/Kg-dry	1	7/29/2016 12:35 PM
Silver	0.18	U	0.059	0.18	0.72	mg/Kg-dry	1	7/29/2016 12:35 PM
Sodium	120		1.5	3.6	36	mg/Kg-dry	1	7/29/2016 12:35 PM
Vanadium	28		0.092	0.72	1.8	mg/Kg-dry	1	7/29/2016 12:35 PM
Zinc	44		0.28	0.36	3.6	mg/Kg-dry	1	8/1/2016 4:38 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.19		0.035	0.036	0.14	mg/Kg-dry	10	7/15/2016 3:43 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
1,2-Dichlorobenzene	0.018	U	0.0078	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
1,3-Dichlorobenzene	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
1,4-Dichlorobenzene	0.018	U	0.0058	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
2,4,5-Trichlorophenol	0.036	U	0.018	0.036	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606652-011 **Matrix:** Soil
Client Sample ID: 203-SB04-11

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.036	U	0.020	0.036	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
2,4-Dichlorophenol	0.090	U	0.031	0.090	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
2,4-Dimethyl phenol	0.090	U	0.034	0.090	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
2,4-Dinitrophenol	0.18	UQ	0.10	0.18	0.90	mg/Kg-dry	1	7/1/2016 9:13 AM
2,4-Dinitrotoluene	0.018	U	0.016	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
2,6-Dinitrotoluene	0.018	U	0.017	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
2-Chloronaphthalene	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
2-Chlorophenol	0.090	U	0.038	0.090	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
2-Methylphenol (o-Cresol)	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
2-Nitroaniline	0.018	U	0.0087	0.018	0.35	mg/Kg-dry	1	7/1/2016 9:13 AM
2-Nitrophenol	0.090	U	0.045	0.090	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
3,3´-Dichlorobenzidine	0.72	UQ	0.46	0.72	1.1	mg/Kg-dry	1	7/1/2016 9:13 AM
3-Nitroaniline	0.014	J	0.013	0.018	0.35	mg/Kg-dry	1	7/1/2016 9:13 AM
3/4-Methylphenol [m/p-Cresol]	0.090	U	0.064	0.090	0.35	mg/Kg-dry	1	7/1/2016 9:13 AM
4,6-Dinitro-2-methylphenol	0.090	U	0.052	0.090	0.35	mg/Kg-dry	1	7/1/2016 9:13 AM
4-Bromophenyl phenyl ether	0.090	U	0.046	0.090	0.22	mg/Kg-dry	1	7/1/2016 9:13 AM
4-Chloro-3-methylphenol	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
4-Chloroaniline [p-Chloroaniline]	0.090	U	0.027	0.090	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
4-Chlorophenyl phenyl ether	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
4-Nitroaniline	0.090	U	0.026	0.090	0.35	mg/Kg-dry	1	7/1/2016 9:13 AM
4-Nitrophenol	0.36	U	0.26	0.36	0.90	mg/Kg-dry	1	7/1/2016 9:13 AM
Benzoic acid	0.36	UY QZ	0.15	0.36	1.1	mg/Kg-dry	1	7/1/2016 9:13 AM
Benzyl alcohol	0.018	U	0.0087	0.018	0.71	mg/Kg-dry	1	7/1/2016 9:13 AM
Bis(2-chloroethoxy) methane	0.018	U	0.0075	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Bis(2-chloroethyl) ether	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Bis(2-chloroisopropyl)ether	0.018	UZ	0.0082	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Bis(2-ethylhexyl) phthalate	0.036	U	0.032	0.036	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Butyl benzyl phthalate	0.036	U	0.021	0.036	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Carbazole	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Di-n-butyl phthalate	0.036	U	0.019	0.036	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Di-n-octyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Dibenzofuran	0.018	U	0.0092	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Diethyl phthalate	0.018	U	0.013	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Dimethyl phthalate	0.018	U	0.012	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Hexachlorobenzene	0.018	U	0.0098	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Hexachlorobutadiene	0.018	UY	0.016	0.018	0.054	mg/Kg-dry	1	7/1/2016 9:13 AM
Hexachloroethane	0.018	U	0.0083	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Isophorone	0.018	U	0.0074	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
N-Nitroso-di-n-propylamine	0.018	U	0.010	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
N-Nitrosodimethylamine	0.018	UY	0.0087	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
N-Nitrosodiphenylamine	0.018	U	0.0087	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Nitrobenzene	0.018	U	0.011	0.018	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Pentachlorophenol	0.090	UY Q	0.068	0.090	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Phenol	0.090	U	0.039	0.090	0.17	mg/Kg-dry	1	7/1/2016 9:13 AM
Surr: 2,4,6-Tribromophenol	66.1			39-132		%Rec	1	7/1/2016 9:13 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 10:55:00 AM
Project: Camp Hero
Lab ID: 1606652-011 **Matrix:** Soil
Client Sample ID: 203-SB04-11

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	63.7			44-115		%Rec	1	7/1/2016 9:13 AM
Surr: 2-Fluorophenol	58.4			35-115		%Rec	1	7/1/2016 9:13 AM
Surr: Nitrobenzene-d5	52.2			37-122		%Rec	1	7/1/2016 9:13 AM
Surr: Phenol-d5	56.3			33-122		%Rec	1	7/1/2016 9:13 AM
Surr: Terphenyl-d14	66.5			54-127		%Rec	1	7/1/2016 9:13 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
1-Methylnaphthalene	0.00072	UY	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
2-Methylnaphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Acenaphthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Acenaphthylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Benzo(a)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Benzo(a)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Benzo(b)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Benzo(g,h,i)perylene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Benzo(k)fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Chrysene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Dibenzo(a,h)anthracene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Fluoranthene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Fluorene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Indeno(1,2,3-cd)pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Naphthalene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Phenanthrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Pyrene	0.00072	U	0.00072	0.00072	0.00072	mg/Kg-dry	1	7/23/2016 12:45 PM
Surr: 2-Fluorobiphenyl	85.0			46-115		%Rec	1	7/23/2016 12:45 PM
Surr: Nitrobenzene-d5	89.7			44-125		%Rec	1	7/23/2016 12:45 PM
Surr: Terphenyl-d14	89.6			58-133		%Rec	1	7/23/2016 12:45 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00058	U	0.00028	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
1,1,1-Trichloroethane	0.00058	U	0.00021	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
1,1,2,2-Tetrachloroethane	0.00058	U	0.00052	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
1,1,2-Trichloroethane	0.00058	U	0.00038	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
1,1-Dichloroethane	0.00058	U	0.00015	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
1,1-Dichloroethene	0.00058	U	0.00020	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
1,2,3-Trichloropropane	0.00058	U	0.00034	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
1,2-Dibromo-3-chloropropane	0.0019	UQ	0.0014	0.0019	0.0049	mg/Kg-dry	0.9	6/29/2016 10:06 PM
1,2-Dibromoethane	0.00058	U	0.00044	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
1,2-Dichloroethane	0.00058	U	0.00013	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
1,2-Dichloropropane	0.00058	U	0.00027	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
2-Butanone [MEK]	0.0097	UQ	0.0058	0.0097	0.019	mg/Kg-dry	0.9	6/29/2016 10:06 PM
2-Hexanone	0.0019	UB QZ	0.00061	0.0019	0.0049	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Acetone	0.0060	JQ	0.00089	0.0019	0.0097	mg/Kg-dry	0.9	6/29/2016 10:06 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 10:55:00 AM
Project:	Camp Hero		
Lab ID:	1606652-011	**Matrix:**	Soil
Client Sample ID:	203-SB04-11		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00058	U	0.00026	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Bromodichloromethane	0.00058	U	0.00020	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Bromoform	0.00058	U	0.00032	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Carbon disulfide	0.00058	U	0.00018	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Carbon tetrachloride	0.00058	U	0.00021	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Chlorobenzene	0.00058	U	0.00018	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Chlorodibromomethane	0.00058	U	0.00034	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Chloroethane	0.00097	U	0.00074	0.00097	0.0019	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Chloroform	0.00058	U	0.00046	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Chloromethane	0.0012	BQ Z	0.00034	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
cis-1,2-Dichloroethene	0.00058	U	0.00055	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
cis-1,3-Dichloropropene	0.00058	U	0.00016	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Dichlorodifluoromethane [Freon-12]	0.00058	UZ	0.00037	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Ethylbenzene	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Methylene chloride	0.0019	UQ	0.0010	0.0019	0.0049	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Styrene	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Tetrachloroethene	0.00058	U	0.00031	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Toluene	0.00058	U	0.00026	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
trans-1,2-Dichloroethene	0.00058	U	0.00018	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
trans-1,3-Dichloropropene	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Trichloroethene	0.00058	U	0.00037	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Trichlorofluoromethane [Freon-11]	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Vinyl acetate	0.00058	UZ	0.00046	0.00058	0.0049	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Vinyl chloride	0.00058	U	0.00030	0.00058	0.00078	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Xylene (Total)	0.0018	U	0.00044	0.0018	0.0029	mg/Kg-dry	0.9	6/29/2016 10:06 PM
Surr: 4-Bromofluorobenzene	88.8			79-119		%Rec	0.9	6/29/2016 10:06 PM
Surr: Dibromofluoromethane	98.4			78-119		%Rec	0.9	6/29/2016 10:06 PM
Surr: Toluene-d8	87.9			85-116		%Rec	0.9	6/29/2016 10:06 PM

Percent Moisture		**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	7.7	1.0	1.0	1.0	wt%	1	6/24/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:10:00 AM
Project: Camp Hero
Lab ID: 1606652-012 **Matrix:** Soil
Client Sample ID: 203-SB04-14

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0070	U	0.0031	0.0070	0.034	mg/Kg-dry	1	6/28/2016 8:31 AM
Aroclor 1221	0.0070	U	0.0031	0.0070	0.034	mg/Kg-dry	1	6/28/2016 8:31 AM
Aroclor 1232	0.0070	U	0.0047	0.0070	0.034	mg/Kg-dry	1	6/28/2016 8:31 AM
Aroclor 1242	0.0070	U	0.0039	0.0070	0.034	mg/Kg-dry	1	6/28/2016 8:31 AM
Aroclor 1248	0.0070	U	0.0037	0.0070	0.034	mg/Kg-dry	1	6/28/2016 8:31 AM
Aroclor 1254	0.0070	U	0.0044	0.0070	0.034	mg/Kg-dry	1	6/28/2016 8:31 AM
Aroclor 1260	0.0070	U	0.0031	0.0070	0.034	mg/Kg-dry	1	6/28/2016 8:31 AM
Aroclor 1262	0.0070	U	0.0031	0.0070	0.034	mg/Kg-dry	1	6/28/2016 8:31 AM
Aroclor 1268	0.0070	U	0.0025	0.0070	0.034	mg/Kg-dry	1	6/28/2016 8:31 AM
Surr: Tetrachloro-m-xylene	64.5			44-130		%Rec	1	6/28/2016 8:31 AM
Surr: Decachlorobiphenyl	80.3			60-125		%Rec	1	6/28/2016 8:31 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	7,900		50	130	340	mg/Kg-dry	100	7/28/2016 3:07 PM
Antimony	2.8		0.25	0.34	0.67	mg/Kg-dry	1	7/28/2016 1:47 PM
Arsenic	1.1	J	0.49	0.67	1.3	mg/Kg-dry	1	7/28/2016 1:47 PM
Barium	41		0.20	3.4	6.7	mg/Kg-dry	1	7/28/2016 1:47 PM
Beryllium	0.084	J	0.0085	0.034	0.17	mg/Kg-dry	1	7/28/2016 1:47 PM
Cadmium	0.023	J	0.022	0.034	0.17	mg/Kg-dry	1	7/28/2016 1:47 PM
Calcium	410		2.0	6.7	34	mg/Kg-dry	1	7/28/2016 1:47 PM
Chromium	13		0.055	0.27	0.34	mg/Kg-dry	1	8/2/2016 1:20 PM
Cobalt	2.7		0.060	0.17	0.67	mg/Kg-dry	1	7/28/2016 1:47 PM
Copper	31		0.28	0.67	3.4	mg/Kg-dry	1	7/28/2016 1:47 PM
Iron	13,000		21	34	100	mg/Kg-dry	10	7/28/2016 3:06 PM
Lead	2.8	J	0.42	0.67	3.4	mg/Kg-dry	1	7/28/2016 1:47 PM
Magnesium	2,100		23	34	340	mg/Kg-dry	10	7/28/2016 3:06 PM
Manganese	120		0.12	0.17	0.67	mg/Kg-dry	1	7/28/2016 1:47 PM
Nickel	6.3		0.19	0.67	3.4	mg/Kg-dry	1	7/28/2016 1:47 PM
Potassium	1,400		1.6	6.7	13	mg/Kg-dry	1	7/28/2016 1:47 PM
Selenium	1.0	U	0.78	1.0	1.3	mg/Kg-dry	1	7/28/2016 1:47 PM
Silver	0.17	U	0.055	0.17	0.67	mg/Kg-dry	1	7/28/2016 1:47 PM
Sodium	73		1.4	3.4	34	mg/Kg-dry	1	7/28/2016 1:47 PM
Vanadium	19		0.085	0.67	1.7	mg/Kg-dry	1	7/28/2016 1:47 PM
Zinc	15		0.26	0.34	3.4	mg/Kg-dry	1	8/2/2016 1:20 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.24		0.034	0.035	0.14	mg/Kg-dry	10	7/15/2016 2:20 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.017	U	0.0097	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
1,2-Dichlorobenzene	0.017	U	0.0075	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
1,3-Dichlorobenzene	0.017	U	0.0072	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
1,4-Dichlorobenzene	0.017	U	0.0055	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
2,4,5-Trichlorophenol	0.035	U	0.017	0.035	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:10:00 AM
Project: Camp Hero
Lab ID: 1606652-012 **Matrix:** Soil
Client Sample ID: 203-SB04-14

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
2,4-Dichlorophenol	0.087	U	0.030	0.087	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
2,4-Dimethyl phenol	0.087	U	0.033	0.087	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
2,4-Dinitrophenol	0.17	UQ	0.098	0.17	0.86	mg/Kg-dry	1	7/1/2016 9:38 AM
2,4-Dinitrotoluene	0.017	U	0.015	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
2,6-Dinitrotoluene	0.017	U	0.016	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
2-Chloronaphthalene	0.017	U	0.012	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
2-Chlorophenol	0.087	U	0.036	0.087	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
2-Methylphenol (o-Cresol)	0.087	U	0.037	0.087	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
2-Nitroaniline	0.017	U	0.0084	0.017	0.33	mg/Kg-dry	1	7/1/2016 9:38 AM
2-Nitrophenol	0.087	U	0.043	0.087	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
3,3´-Dichlorobenzidine	0.69	UQ	0.44	0.69	1.0	mg/Kg-dry	1	7/1/2016 9:38 AM
3-Nitroaniline	0.017	U	0.012	0.017	0.33	mg/Kg-dry	1	7/1/2016 9:38 AM
3/4-Methylphenol [m/p-Cresol]	0.087	U	0.062	0.087	0.33	mg/Kg-dry	1	7/1/2016 9:38 AM
4,6-Dinitro-2-methylphenol	0.087	U	0.050	0.087	0.33	mg/Kg-dry	1	7/1/2016 9:38 AM
4-Bromophenyl phenyl ether	0.087	U	0.044	0.087	0.21	mg/Kg-dry	1	7/1/2016 9:38 AM
4-Chloro-3-methylphenol	0.035	U	0.018	0.035	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
4-Chloroaniline [p-Chloroaniline]	0.087	U	0.026	0.087	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
4-Chlorophenyl phenyl ether	0.017	U	0.010	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
4-Nitroaniline	0.087	U	0.025	0.087	0.33	mg/Kg-dry	1	7/1/2016 9:38 AM
4-Nitrophenol	0.35	U	0.25	0.35	0.86	mg/Kg-dry	1	7/1/2016 9:38 AM
Benzoic acid	0.35	UY QZ	0.14	0.35	1.0	mg/Kg-dry	1	7/1/2016 9:38 AM
Benzyl alcohol	0.017	U	0.0083	0.017	0.69	mg/Kg-dry	1	7/1/2016 9:38 AM
Bis(2-chloroethoxy) methane	0.017	U	0.0072	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Bis(2-chloroethyl) ether	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Bis(2-chloroisopropyl)ether	0.017	UZ	0.0079	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Bis(2-ethylhexyl) phthalate	0.035	U	0.031	0.035	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Butyl benzyl phthalate	0.035	U	0.020	0.035	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Carbazole	0.017	U	0.012	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Di-n-butyl phthalate	0.035	U	0.019	0.035	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Di-n-octyl phthalate	0.017	U	0.012	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Dibenzofuran	0.017	U	0.0088	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Diethyl phthalate	0.017	U	0.013	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Dimethyl phthalate	0.017	U	0.012	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Hexachlorobenzene	0.017	U	0.0094	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Hexachlorobutadiene	0.017	UY	0.016	0.017	0.052	mg/Kg-dry	1	7/1/2016 9:38 AM
Hexachloroethane	0.017	U	0.0080	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Isophorone	0.017	U	0.0072	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
N-Nitroso-di-n-propylamine	0.017	U	0.0096	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
N-Nitrosodimethylamine	0.017	UY	0.0084	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
N-Nitrosodiphenylamine	0.017	U	0.0084	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Nitrobenzene	0.017	U	0.011	0.017	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Pentachlorophenol	0.087	UY Q	0.065	0.087	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Phenol	0.087	U	0.037	0.087	0.17	mg/Kg-dry	1	7/1/2016 9:38 AM
Surr: 2,4,6-Tribromophenol	72.3			39-132		%Rec	1	7/1/2016 9:38 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:10:00 AM
Project: Camp Hero
Lab ID: 1606652-012 **Matrix:** Soil
Client Sample ID: 203-SB04-14

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	64.2			44-115		%Rec	1	7/1/2016 9:38 AM
Surr: 2-Fluorophenol	58.3			35-115		%Rec	1	7/1/2016 9:38 AM
Surr: Nitrobenzene-d5	65.7			37-122		%Rec	1	7/1/2016 9:38 AM
Surr: Phenol-d5	58.6			33-122		%Rec	1	7/1/2016 9:38 AM
Surr: Terphenyl-d14	67.8			54-127		%Rec	1	7/1/2016 9:38 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.00071	UY	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
2-Methylnaphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Acenaphthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Acenaphthylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Benzo(a)anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Benzo(a)pyrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Benzo(b)fluoranthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Benzo(g,h,i)perylene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Benzo(k)fluoranthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Chrysene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Dibenzo(a,h)anthracene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Fluoranthene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Fluorene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Indeno(1,2,3-cd)pyrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Naphthalene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Phenanthrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Pyrene	0.00071	U	0.00071	0.00071	0.00071	mg/Kg-dry	1	7/23/2016 1:11 PM
Surr: 2-Fluorobiphenyl	93.3			46-115		%Rec	1	7/23/2016 1:11 PM
Surr: Nitrobenzene-d5	95.9			44-125		%Rec	1	7/23/2016 1:11 PM
Surr: Terphenyl-d14	109			58-133		%Rec	1	7/23/2016 1:11 PM
TCL for Low Level Soil			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.00050	U	0.00024	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
1,1,1-Trichloroethane	0.00050	U	0.00018	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
1,1,2,2-Tetrachloroethane	0.00050	U	0.00044	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
1,1,2-Trichloroethane	0.00050	U	0.00032	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
1,1-Dichloroethane	0.00050	U	0.00012	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
1,1-Dichloroethene	0.00050	U	0.00017	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
1,2,3-Trichloropropane	0.00050	U	0.00029	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
1,2-Dibromo-3-chloropropane	0.0017	UQ	0.0012	0.0017	0.0042	mg/Kg-dry	0.78	6/29/2016 10:33 PM
1,2-Dibromoethane	0.00050	U	0.00037	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
1,2-Dichloroethane	0.00050	U	0.00011	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
1,2-Dichloropropane	0.00050	U	0.00023	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
2-Butanone [MEK]	0.0083	UQ	0.0049	0.0083	0.017	mg/Kg-dry	0.78	6/29/2016 10:33 PM
2-Hexanone	0.0017	UB QZ	0.00052	0.0017	0.0042	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Acetone	0.0017	UQ	0.00076	0.0017	0.0083	mg/Kg-dry	0.78	6/29/2016 10:33 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 11:10:00 AM
Project:	Camp Hero		
Lab ID:	1606652-012	**Matrix:**	Soil
Client Sample ID:	203-SB04-14		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00050	U	0.00022	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Bromodichloromethane	0.00050	U	0.00017	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Bromoform	0.00050	U	0.00027	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Carbon disulfide	0.00050	U	0.00015	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Carbon tetrachloride	0.00050	U	0.00018	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Chlorobenzene	0.00050	U	0.00016	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Chlorodibromomethane	0.00050	U	0.00029	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Chloroethane	0.00083	U	0.00063	0.00083	0.0017	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Chloroform	0.00050	U	0.00040	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Chloromethane	0.0011	BQ Z	0.00029	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
cis-1,2-Dichloroethene	0.00050	U	0.00047	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
cis-1,3-Dichloropropene	0.00050	U	0.00013	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Dichlorodifluoromethane [Freon-12]	0.00050	UZ	0.00032	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Ethylbenzene	0.00050	U	0.00019	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Methylene chloride	0.00090	JQ	0.00088	0.0017	0.0042	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Styrene	0.00050	U	0.00019	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Tetrachloroethene	0.00050	U	0.00027	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Toluene	0.00050	U	0.00022	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
trans-1,2-Dichloroethene	0.00050	U	0.00016	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
trans-1,3-Dichloropropene	0.00050	U	0.00019	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Trichloroethene	0.00050	U	0.00032	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Trichlorofluoromethane [Freon-11]	0.00050	U	0.00019	0.00050	0.00083	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Vinyl acetate	0.00050	UZ	0.00039	0.00050	0.0042	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Vinyl chloride	0.00050	U	0.00026	0.00050	0.00067	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Xylene (Total)	0.0015	U	0.00038	0.0015	0.0025	mg/Kg-dry	0.78	6/29/2016 10:33 PM
Surr: 4-Bromofluorobenzene	88.6			79-119		%Rec	0.78	6/29/2016 10:33 PM
Surr: Dibromofluoromethane	101			78-119		%Rec	0.78	6/29/2016 10:33 PM
Surr: Toluene-d8	87.3			85-116		%Rec	0.78	6/29/2016 10:33 PM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	6.3		1.0	1.0	1.0	wt%	1	6/24/2016 2:00 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606652-013	**Matrix:**	Soil
Client Sample ID:	203-SB05-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0076	U	0.0034	0.0076	0.038	mg/Kg-dry	1	6/28/2016 8:55 AM
Aroclor 1221	0.0076	U	0.0034	0.0076	0.038	mg/Kg-dry	1	6/28/2016 8:55 AM
Aroclor 1232	0.0076	U	0.0051	0.0076	0.038	mg/Kg-dry	1	6/28/2016 8:55 AM
Aroclor 1242	0.0076	U	0.0042	0.0076	0.038	mg/Kg-dry	1	6/28/2016 8:55 AM
Aroclor 1248	0.0076	U	0.0040	0.0076	0.038	mg/Kg-dry	1	6/28/2016 8:55 AM
Aroclor 1254	0.0076	U	0.0048	0.0076	0.038	mg/Kg-dry	1	6/28/2016 8:55 AM
Aroclor 1260	0.0076	U	0.0033	0.0076	0.038	mg/Kg-dry	1	6/28/2016 8:55 AM
Aroclor 1262	0.0076	U	0.0033	0.0076	0.038	mg/Kg-dry	1	6/28/2016 8:55 AM
Aroclor 1268	0.0076	U	0.0028	0.0076	0.038	mg/Kg-dry	1	6/28/2016 8:55 AM
Surr: Tetrachloro-m-xylene	60.7			44-130		%Rec	1	6/28/2016 8:55 AM
Surr: Decachlorobiphenyl	77.0			60-125		%Rec	1	6/28/2016 8:55 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	12,000		56	150	380	mg/Kg-dry	100	7/29/2016 2:01 PM
Antimony	3.5		0.28	0.38	0.75	mg/Kg-dry	1	7/29/2016 12:37 PM
Arsenic	2.8		0.55	0.75	1.5	mg/Kg-dry	1	7/29/2016 12:37 PM
Barium	34		0.22	3.8	7.5	mg/Kg-dry	1	7/29/2016 12:37 PM
Beryllium	0.11	J	0.0095	0.038	0.19	mg/Kg-dry	1	7/29/2016 12:37 PM
Cadmium	0.038	U	0.025	0.038	0.19	mg/Kg-dry	1	7/29/2016 12:37 PM
Calcium	730		2.2	7.5	38	mg/Kg-dry	1	7/29/2016 12:37 PM
Chromium	15		0.062	0.30	0.38	mg/Kg-dry	1	8/1/2016 4:40 PM
Cobalt	3.7		0.068	0.19	0.75	mg/Kg-dry	1	7/29/2016 12:37 PM
Copper	31		0.31	0.75	3.8	mg/Kg-dry	1	7/29/2016 12:37 PM
Iron	12,000		24	38	110	mg/Kg-dry	10	7/29/2016 2:00 PM
Lead	4.0		0.47	0.75	3.8	mg/Kg-dry	1	7/29/2016 12:37 PM
Magnesium	2,200		26	38	380	mg/Kg-dry	10	7/29/2016 2:00 PM
Manganese	110		0.14	0.19	0.75	mg/Kg-dry	1	7/29/2016 12:37 PM
Nickel	8.8		0.21	0.75	3.8	mg/Kg-dry	1	7/29/2016 12:37 PM
Potassium	1,200		1.8	7.5	15	mg/Kg-dry	1	7/29/2016 12:37 PM
Selenium	1.1	U	0.88	1.1	1.5	mg/Kg-dry	1	7/29/2016 12:37 PM
Silver	0.19	U	0.062	0.19	0.75	mg/Kg-dry	1	7/29/2016 12:37 PM
Sodium	81		1.5	3.8	38	mg/Kg-dry	1	7/29/2016 12:37 PM
Vanadium	23		0.095	0.75	1.9	mg/Kg-dry	1	7/29/2016 12:37 PM
Zinc	20		0.29	0.38	3.8	mg/Kg-dry	1	8/1/2016 4:40 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.16		0.035	0.036	0.14	mg/Kg-dry	10	7/15/2016 3:44 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
1,2-Dichlorobenzene	0.019	U	0.0082	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
1,3-Dichlorobenzene	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
1,4-Dichlorobenzene	0.019	U	0.0061	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:45:00 AM
Project: Camp Hero
Lab ID: 1606652-013 **Matrix:** Soil
Client Sample ID: 203-SB05-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
2,4-Dichlorophenol	0.095	U	0.033	0.095	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
2,4-Dimethyl phenol	0.095	U	0.036	0.095	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
2,4-Dinitrophenol	0.19	UQ	0.11	0.19	0.95	mg/Kg-dry	1	7/1/2016 10:03 AM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
2-Chlorophenol	0.095	U	0.040	0.095	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
2-Methylphenol (o-Cresol)	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
2-Nitroaniline	0.019	U	0.0093	0.019	0.37	mg/Kg-dry	1	7/1/2016 10:03 AM
2-Nitrophenol	0.095	U	0.047	0.095	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
3,3´-Dichlorobenzidine	0.76	UQ	0.49	0.76	1.1	mg/Kg-dry	1	7/1/2016 10:03 AM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	7/1/2016 10:03 AM
3/4-Methylphenol [m/p-Cresol]	0.095	U	0.068	0.095	0.37	mg/Kg-dry	1	7/1/2016 10:03 AM
4,6-Dinitro-2-methylphenol	0.095	U	0.055	0.095	0.37	mg/Kg-dry	1	7/1/2016 10:03 AM
4-Bromophenyl phenyl ether	0.095	U	0.049	0.095	0.23	mg/Kg-dry	1	7/1/2016 10:03 AM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
4-Chloroaniline [p-Chloroaniline]	0.095	U	0.029	0.095	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
4-Nitroaniline	0.095	U	0.027	0.095	0.37	mg/Kg-dry	1	7/1/2016 10:03 AM
4-Nitrophenol	0.38	U	0.27	0.38	0.95	mg/Kg-dry	1	7/1/2016 10:03 AM
Benzoic acid	0.50	JY QZ	0.15	0.38	1.1	mg/Kg-dry	1	7/1/2016 10:03 AM
Benzyl alcohol	0.019	U	0.0092	0.019	0.75	mg/Kg-dry	1	7/1/2016 10:03 AM
Bis(2-chloroethoxy) methane	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Bis(2-chloroethyl) ether	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0087	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Bis(2-ethylhexyl) phthalate	0.038	U	0.034	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Butyl benzyl phthalate	0.038	U	0.022	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Di-n-butyl phthalate	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Dibenzofuran	0.019	U	0.0097	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Hexachlorobutadiene	0.019	UY	0.017	0.019	0.057	mg/Kg-dry	1	7/1/2016 10:03 AM
Hexachloroethane	0.019	U	0.0088	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Isophorone	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
N-Nitrosodimethylamine	0.019	UY	0.0093	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
N-Nitrosodiphenylamine	0.019	U	0.0092	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Pentachlorophenol	0.095	UY Q	0.072	0.095	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Phenol	0.095	U	0.041	0.095	0.18	mg/Kg-dry	1	7/1/2016 10:03 AM
Surr: 2,4,6-Tribromophenol	65.3			39-132		%Rec	1	7/1/2016 10:03 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 11:45:00 AM
Project: Camp Hero
Lab ID: 1606652-013 **Matrix:** Soil
Client Sample ID: 203-SB05-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	56.1			44-115		%Rec	1	7/1/2016 10:03 AM
Surr: 2-Fluorophenol	49.3			35-115		%Rec	1	7/1/2016 10:03 AM
Surr: Nitrobenzene-d5	56.9			37-122		%Rec	1	7/1/2016 10:03 AM
Surr: Phenol-d5	50.4			33-122		%Rec	1	7/1/2016 10:03 AM
Surr: Terphenyl-d14	60.2			54-127		%Rec	1	7/1/2016 10:03 AM
Polynuclear Hydrocarbons			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.0090	Y	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
2-Methylnaphthalene	0.0046		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Acenaphthene	0.00080		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Acenaphthylene	0.00078		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Anthracene	0.0016		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Benzo(a)anthracene	0.0074		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Benzo(a)pyrene	0.0068		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Benzo(b)fluoranthene	0.012		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Benzo(g,h,i)perylene	0.0029		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Benzo(k)fluoranthene	0.0047		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Chrysene	0.0080		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Dibenzo(a,h)anthracene	0.00095		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Fluoranthene	0.018		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Fluorene	0.00090		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Indeno(1,2,3-cd)pyrene	0.0031		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Naphthalene	0.0043		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Phenanthrene	0.0089		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Pyrene	0.014		0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 1:37 PM
Surr: 2-Fluorobiphenyl	90.5			46-115		%Rec	1	7/23/2016 1:37 PM
Surr: Nitrobenzene-d5	95.0			44-125		%Rec	1	7/23/2016 1:37 PM
Surr: Terphenyl-d14	97.4			58-133		%Rec	1	7/23/2016 1:37 PM
TCL for Low Level Soil			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.00061	U	0.00029	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
1,1,1-Trichloroethane	0.00061	U	0.00022	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
1,1,2,2-Tetrachloroethane	0.00061	U	0.00054	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
1,1,2-Trichloroethane	0.00061	U	0.00040	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
1,1-Dichloroethane	0.00061	U	0.00015	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
1,1-Dichloroethene	0.00061	U	0.00021	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
1,2,3-Trichloropropane	0.00061	U	0.00036	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
1,2-Dibromo-3-chloropropane	0.0020	UQ	0.0014	0.0020	0.0051	mg/Kg-dry	0.88	6/30/2016 12:45 AM
1,2-Dibromoethane	0.00061	U	0.00046	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
1,2-Dichloroethane	0.00061	U	0.00014	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
1,2-Dichloropropane	0.00061	U	0.00028	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
2-Butanone [MEK]	0.010	UQ	0.0061	0.010	0.020	mg/Kg-dry	0.88	6/30/2016 12:45 AM
2-Hexanone	0.0020	UBQZ	0.00064	0.0020	0.0051	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Acetone	0.045	Q	0.00093	0.0020	0.010	mg/Kg-dry	0.88	6/30/2016 12:45 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 11:45:00 AM
Project:	Camp Hero		
Lab ID:	1606652-013	**Matrix:**	Soil
Client Sample ID:	203-SB05-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00061	U	0.00028	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Bromodichloromethane	0.00061	U	0.00021	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Bromoform	0.00061	U	0.00033	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Carbon disulfide	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Carbon tetrachloride	0.00061	U	0.00022	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Chlorobenzene	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Chlorodibromomethane	0.00061	U	0.00035	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Chloroethane	0.0010	U	0.00077	0.0010	0.0020	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Chloroform	0.00061	U	0.00048	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Chloromethane	0.0013	BQ Z	0.00035	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
cis-1,2-Dichloroethene	0.00061	U	0.00057	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
cis-1,3-Dichloropropene	0.00061	U	0.00016	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Dichlorodifluoromethane [Freon-12]	0.00061	UZ	0.00039	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Ethylbenzene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Methylene chloride	0.0020	UQ	0.0011	0.0020	0.0051	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Styrene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Tetrachloroethene	0.00061	U	0.00033	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Toluene	0.00061	U	0.00027	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
trans-1,2-Dichloroethene	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
trans-1,3-Dichloropropene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Trichloroethene	0.00061	U	0.00039	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Trichlorofluoromethane [Freon-11]	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Vinyl acetate	0.00061	UZ	0.00048	0.00061	0.0051	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Vinyl chloride	0.00061	U	0.00032	0.00061	0.00082	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0031	mg/Kg-dry	0.88	6/30/2016 12:45 AM
Surr: 4-Bromofluorobenzene	89.5			79-119		%Rec	0.88	6/30/2016 12:45 AM
Surr: Dibromofluoromethane	93.5			78-119		%Rec	0.88	6/30/2016 12:45 AM
Surr: Toluene-d8	86.0			85-116		%Rec	0.88	6/30/2016 12:45 AM

Percent Moisture			**Method: ASTM-D2216**				**Analyst: NS1**
Percent Moisture	14	1.0	1.0	1.0	wt%	1	6/24/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 12:00:00 PM
Project: Camp Hero
Lab ID: 1606652-014 **Matrix:** Soil
Client Sample ID: 203-SB05-21

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0086	U	0.0039	0.0086	0.043	mg/Kg-dry	1	7/22/2016 3:03 PM
Aroclor 1221	0.0086	U	0.0039	0.0086	0.043	mg/Kg-dry	1	7/22/2016 3:03 PM
Aroclor 1232	0.0086	U	0.0058	0.0086	0.043	mg/Kg-dry	1	7/22/2016 3:03 PM
Aroclor 1242	0.0086	U	0.0048	0.0086	0.043	mg/Kg-dry	1	7/22/2016 3:03 PM
Aroclor 1248	0.0086	U	0.0046	0.0086	0.043	mg/Kg-dry	1	7/22/2016 3:03 PM
Aroclor 1254	0.0086	U	0.0055	0.0086	0.043	mg/Kg-dry	1	7/22/2016 3:03 PM
Aroclor 1260	0.0086	U	0.0038	0.0086	0.043	mg/Kg-dry	1	7/22/2016 3:03 PM
Aroclor 1262	0.0086	U	0.0038	0.0086	0.043	mg/Kg-dry	1	7/22/2016 3:03 PM
Aroclor 1268	0.0086	U	0.0032	0.0086	0.043	mg/Kg-dry	1	7/22/2016 3:03 PM
Surr: Tetrachloro-m-xylene	81.0			44-130		%Rec	1	7/22/2016 3:03 PM
Surr: Decachlorobiphenyl	102			60-125		%Rec	1	7/22/2016 3:03 PM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	10,000		65	170	430	mg/Kg-dry	100	8/4/2016 1:32 PM
Antimony	3.5		0.32	0.43	0.87	mg/Kg-dry	1	8/4/2016 11:56 AM
Arsenic	1.6	J	0.63	0.87	1.7	mg/Kg-dry	1	8/4/2016 11:56 AM
Barium	42	X	0.26	4.3	8.7	mg/Kg-dry	1	8/4/2016 11:56 AM
Beryllium	0.23		0.011	0.043	0.22	mg/Kg-dry	1	8/4/2016 11:56 AM
Cadmium	0.032	J	0.029	0.043	0.22	mg/Kg-dry	1	8/4/2016 11:56 AM
Calcium	810	X	2.5	8.7	43	mg/Kg-dry	1	8/4/2016 11:56 AM
Chromium	13		0.071	0.35	0.43	mg/Kg-dry	1	8/4/2016 11:56 AM
Cobalt	3.8		0.078	0.22	0.87	mg/Kg-dry	1	8/4/2016 11:56 AM
Copper	31	X	0.36	0.87	4.3	mg/Kg-dry	1	8/4/2016 11:56 AM
Iron	12,000		27	43	130	mg/Kg-dry	10	8/4/2016 1:04 PM
Lead	3.5	J	0.54	0.87	4.3	mg/Kg-dry	1	8/4/2016 11:56 AM
Magnesium	2,100	X	3.0	4.3	43	mg/Kg-dry	1	8/4/2016 11:56 AM
Manganese	130	X	0.16	0.22	0.87	mg/Kg-dry	1	8/4/2016 11:56 AM
Nickel	8.4	X	0.24	0.87	4.3	mg/Kg-dry	1	8/4/2016 11:56 AM
Potassium	1,500	X	2.0	8.7	17	mg/Kg-dry	1	8/4/2016 11:56 AM
Selenium	1.3	U	1.0	1.3	1.7	mg/Kg-dry	1	8/4/2016 11:56 AM
Silver	0.22	U	0.071	0.22	0.87	mg/Kg-dry	1	8/4/2016 11:56 AM
Sodium	120		1.8	4.3	43	mg/Kg-dry	1	8/4/2016 11:56 AM
Vanadium	22	X	0.11	0.87	2.2	mg/Kg-dry	1	8/4/2016 11:56 AM
Zinc	16		0.33	0.43	4.3	mg/Kg-dry	1	8/4/2016 11:56 AM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.19		0.041	0.042	0.17	mg/Kg-dry	10	7/26/2016 1:12 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.022	UX	0.012	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
1,2-Dichlorobenzene	0.022	UX	0.0094	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
1,3-Dichlorobenzene	0.022	UX	0.0090	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
1,4-Dichlorobenzene	0.022	UX	0.0070	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
2,4,5-Trichlorophenol	0.043	UX	0.021	0.043	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 12:00:00 PM
Project:	Camp Hero		
Lab ID:	1606652-014	**Matrix:**	Soil
Client Sample ID:	203-SB05-21		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.043	UX	0.024	0.043	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
2,4-Dichlorophenol	0.11	UX	0.037	0.11	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
2,4-Dimethyl phenol	0.11	UX	0.042	0.11	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
2,4-Dinitrophenol	0.22	UQX	0.12	0.22	1.1	mg/Kg-dry	1	7/1/2016 4:38 AM
2,4-Dinitrotoluene	0.022	UX	0.019	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
2,6-Dinitrotoluene	0.022	U	0.021	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
2-Chloronaphthalene	0.022	UX	0.015	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
2-Chlorophenol	0.11	UX	0.045	0.11	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
2-Methylphenol (o-Cresol)	0.11	UX	0.047	0.11	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
2-Nitroaniline	0.022	UX	0.011	0.022	0.42	mg/Kg-dry	1	7/1/2016 4:38 AM
2-Nitrophenol	0.11	UX	0.054	0.11	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
3,3´-Dichlorobenzidine	0.87	UQX	0.56	0.87	1.3	mg/Kg-dry	1	7/1/2016 4:38 AM
3-Nitroaniline	0.022	UX	0.015	0.022	0.42	mg/Kg-dry	1	7/1/2016 4:38 AM
3/4-Methylphenol [m/p-Cresol]	0.11	UX	0.077	0.11	0.42	mg/Kg-dry	1	7/1/2016 4:38 AM
4,6-Dinitro-2-methylphenol	0.11	U	0.063	0.11	0.42	mg/Kg-dry	1	7/1/2016 4:38 AM
4-Bromophenyl phenyl ether	0.11	UX	0.055	0.11	0.26	mg/Kg-dry	1	7/1/2016 4:38 AM
4-Chloro-3-methylphenol	0.043	UX	0.023	0.043	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
4-Chloroaniline [p-Chloroaniline]	0.11	UX	0.033	0.11	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
4-Chlorophenyl phenyl ether	0.022	UX	0.013	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
4-Nitroaniline	0.11	UX	0.031	0.11	0.42	mg/Kg-dry	1	7/1/2016 4:38 AM
4-Nitrophenol	0.43	UX	0.31	0.43	1.1	mg/Kg-dry	1	7/1/2016 4:38 AM
Benzoic acid	0.43	UYQXZ	0.18	0.43	1.3	mg/Kg-dry	1	7/1/2016 4:38 AM
Benzyl alcohol	0.022	UX	0.010	0.022	0.86	mg/Kg-dry	1	7/1/2016 4:38 AM
Bis(2-chloroethoxy) methane	0.022	UX	0.0090	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Bis(2-chloroethyl) ether	0.043	UX	0.023	0.043	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Bis(2-chloroisopropyl)ether	0.022	UXZ	0.0099	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Bis(2-ethylhexyl) phthalate	0.043	UX	0.038	0.043	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Butyl benzyl phthalate	0.043	UX	0.026	0.043	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Carbazole	0.18	JX	0.015	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Di-n-butyl phthalate	0.043	UX	0.023	0.043	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Di-n-octyl phthalate	0.022	UX	0.015	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Dibenzofuran	0.022	UX	0.011	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Diethyl phthalate	0.022	UX	0.016	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Dimethyl phthalate	0.022	UX	0.015	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Hexachlorobenzene	0.022	UX	0.012	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Hexachlorobutadiene	0.022	UYX	0.020	0.022	0.065	mg/Kg-dry	1	7/1/2016 4:38 AM
Hexachloroethane	0.022	UX	0.010	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Isophorone	0.022	UX	0.0090	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
N-Nitroso-di-n-propylamine	0.022	UX	0.012	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
N-Nitrosodimethylamine	0.022	UYX	0.011	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
N-Nitrosodiphenylamine	0.022	UX	0.011	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Nitrobenzene	0.022	UX	0.013	0.022	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 12:00:00 PM
Project: Camp Hero
Lab ID: 1606652-014 **Matrix:** Soil
Client Sample ID: 203-SB05-21

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pentachlorophenol	0.11	UY QX	0.082	0.11	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Phenol	0.11	UX	0.047	0.11	0.21	mg/Kg-dry	1	7/1/2016 4:38 AM
Surr: 2,4,6-Tribromophenol	73.3			39-132		%Rec	1	7/1/2016 4:38 AM
Surr: 2-Fluorobiphenyl	63.4			44-115		%Rec	1	7/1/2016 4:38 AM
Surr: 2-Fluorophenol	59.9			35-115		%Rec	1	7/1/2016 4:38 AM
Surr: Nitrobenzene-d5	42.8			37-122		%Rec	1	7/1/2016 4:38 AM
Surr: Phenol-d5	62.8			33-122		%Rec	1	7/1/2016 4:38 AM
Surr: Terphenyl-d14	75.4			54-127		%Rec	1	7/1/2016 4:38 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: STM**
1-Methylnaphthalene	60		2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
2-Methylnaphthalene	54		2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
Acenaphthene	22		2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
Acenaphthylene	3.6		2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
Anthracene	6.7		2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
Benzo(a)anthracene	2.6	U	2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
Benzo(a)pyrene	0.071	X	0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 2:45 PM
Benzo(b)fluoranthene	0.12	X	0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 2:45 PM
Benzo(g,h,i)perylene	0.031	X	0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 2:45 PM
Benzo(k)fluoranthene	0.038	X	0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 2:45 PM
Chrysene	0.11	X	0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 2:45 PM
Dibenzo(a,h)anthracene	0.013	X	0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 2:45 PM
Fluoranthene	3.6		2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
Fluorene	20		2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
Indeno(1,2,3-cd)pyrene	0.031	X	0.0026	0.0026	0.0026	mg/Kg-dry	3	7/26/2016 2:45 PM
Naphthalene	3.9		2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
Phenanthrene	45		2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
Pyrene	4.4		2.6	2.6	2.6	mg/Kg-dry	3000	8/4/2016 7:24 PM
Surr: 2-Fluorobiphenyl	34.1	Q		46-115		%Rec	3	7/26/2016 2:45 PM
Surr: Nitrobenzene-d5	135	Q		44-125		%Rec	3	7/26/2016 2:45 PM
Surr: Terphenyl-d14	142	Q		58-133		%Rec	3	7/26/2016 2:45 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00066	UX	0.00032	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
1,1,1-Trichloroethane	0.00066	U	0.00023	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
1,1,2,2-Tetrachloroethane	0.00066	UX	0.00059	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
1,1,2-Trichloroethane	0.00066	UX	0.00043	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
1,1-Dichloroethane	0.00066	U	0.00017	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
1,1-Dichloroethene	0.00066	U	0.00023	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
1,2,3-Trichloropropane	0.00066	UX	0.00039	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
1,2-Dibromo-3-chloropropane	0.0022	UQ X	0.0015	0.0022	0.0055	mg/Kg-dry	0.84	6/29/2016 11:00 PM
1,2-Dibromoethane	0.00066	UX	0.00050	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
1,2-Dichloroethane	0.00066	UX	0.00015	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
1,2-Dichloropropane	0.00066	U	0.00031	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 12:00:00 PM
Project: Camp Hero
Lab ID: 1606652-014 **Matrix:** Soil
Client Sample ID: 203-SB05-21

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2-Butanone [MEK]	0.011	UQ X	0.0066	0.011	0.022	mg/Kg-dry	0.84	6/29/2016 11:00 PM
2-Hexanone	0.0022	UB QX Z	0.00069	0.0022	0.0055	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Acetone	0.0022	UQ X	0.0010	0.0022	0.011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Benzene	0.029	X	0.00030	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Bromodichloromethane	0.00066	UX	0.00022	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Bromoform	0.00066	U	0.00036	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Carbon disulfide	0.00066	U	0.00021	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Carbon tetrachloride	0.00066	U	0.00024	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Chlorobenzene	0.00066	U	0.00021	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Chlorodibromomethane	0.00066	U	0.00038	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Chloroethane	0.0011	U	0.00084	0.0011	0.0022	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Chloroform	0.00066	U	0.00052	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Chloromethane	0.0015	BQ XZ	0.00038	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
cis-1,2-Dichloroethene	0.0025	X	0.00062	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
cis-1,3-Dichloropropene	0.00066	U	0.00018	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Dichlorodifluoromethane [Freon-12]	0.00066	UZ	0.00042	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Ethylbenzene	0.63	JX	0.00025	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Methylene chloride	0.0022	UQ X	0.0012	0.0022	0.0055	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Styrene	0.00066	UX	0.00025	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Tetrachloroethene	0.00066	UX	0.00035	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Toluene	0.00066	U	0.00030	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
trans-1,2-Dichloroethene	0.00066	U	0.00021	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
trans-1,3-Dichloropropene	0.00066	U	0.00025	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Trichloroethene	0.00066	U	0.00042	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Trichlorofluoromethane [Freon-11]	0.00066	U	0.00025	0.00066	0.0011	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Vinyl acetate	0.00066	UX Z	0.00052	0.00066	0.0055	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Vinyl chloride	0.00066	U	0.00034	0.00066	0.00088	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Xylene (Total)	0.53	X	0.00050	0.0020	0.0033	mg/Kg-dry	0.84	6/29/2016 11:00 PM
Surr: 4-Bromofluorobenzene	447	Q		79-119		%Rec	0.84	6/29/2016 11:00 PM
Surr: Dibromofluoromethane	97.9			78-119		%Rec	0.84	6/29/2016 11:00 PM
Surr: Toluene-d8	99.7			85-116		%Rec	0.84	6/29/2016 11:00 PM
Target Compound List for VOA Volatile Organic Compounds			**Method: 8260C-ME**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.074	U	0.035	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
1,1,1-Trichloroethane	0.074	U	0.031	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
1,1,2,2-Tetrachloroethane	0.074	UX	0.065	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
1,1,2-Trichloroethane	0.074	U	0.027	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
1,1-Dichloroethane	0.074	U	0.026	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
1,1-Dichloroethene	0.074	U	0.035	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
1,2,3-Trichloropropane	0.074	UX	0.070	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 12:00:00 PM
Project: Camp Hero
Lab ID: 1606652-014 **Matrix:** Soil
Client Sample ID: 203-SB05-21

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
1,2-Dibromo-3-chloropropane	0.25	UXZ	0.15	0.25	0.61	mg/Kg-dry	93.2	6/30/2016 7:12 AM
1,2-Dibromoethane	0.074	U	0.043	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
1,2-Dichloroethane	0.074	U	0.032	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
1,2-Dichloropropane	0.074	U	0.041	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
2-Butanone [MEK]	0.61	U	0.41	0.61	1.2	mg/Kg-dry	93.2	6/30/2016 7:12 AM
2-Hexanone	0.12	UX	0.077	0.12	0.25	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Acetone	0.25	U	0.10	0.25	0.61	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Benzene	0.48		0.025	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Bromodichloromethane	0.074	U	0.032	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Bromoform	0.074	U	0.040	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Carbon disulfide	0.074	U	0.044	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Carbon tetrachloride	0.074	U	0.033	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Chlorobenzene	0.074	U	0.032	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Chlorodibromomethane	0.074	UZ	0.061	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Chloroethane	0.25	UYQX	0.18	0.25	0.61	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Chloroform	0.074	U	0.033	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Chloromethane	0.21	Q	0.049	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
cis-1,2-Dichloroethene	0.074	U	0.071	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
cis-1,3-Dichloropropene	0.074	U	0.019	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Dichlorodifluoromethane [Freon-12]	0.25	U	0.11	0.25	0.61	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Ethylbenzene	7.2		0.027	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Methylene chloride	0.12	UQ	0.094	0.12	0.25	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Styrene	0.074	U	0.028	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Tetrachloroethene	0.074	U	0.063	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Toluene	0.074	U	0.033	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
trans-1,2-Dichloroethene	0.074	U	0.025	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
trans-1,3-Dichloropropene	0.074	U	0.033	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Trichloroethene	0.074	U	0.018	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Trichlorofluoromethane [Freon-11]	0.074	U	0.068	0.074	0.12	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Vinyl acetate	0.074	U	0.071	0.074	3.1	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Vinyl chloride	0.074	U	0.067	0.074	0.098	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Xylene (Total)	6.1		0.11	0.22	0.37	mg/Kg-dry	93.2	6/30/2016 7:12 AM
Surr: 4-Bromofluorobenzene	159	Q		79-119		%Rec	93.2	6/30/2016 7:12 AM
Surr: Dibromofluoromethane	95.2			78-119		%Rec	93.2	6/30/2016 7:12 AM
Surr: Toluene-d8	96.8			85-116		%Rec	93.2	6/30/2016 7:12 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	24		1.0	1.0	1.0	wt%	1	6/24/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 3:10:00 PM
Project: Camp Hero
Lab ID: 1606652-015 **Matrix:** Soil
Client Sample ID: H17-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	6/28/2016 4:51 AM
Aroclor 1221	0.0073	U	0.0033	0.0073	0.036	mg/Kg-dry	1	6/28/2016 4:51 AM
Aroclor 1232	0.0073	U	0.0049	0.0073	0.036	mg/Kg-dry	1	6/28/2016 4:51 AM
Aroclor 1242	0.0073	U	0.0041	0.0073	0.036	mg/Kg-dry	1	6/28/2016 4:51 AM
Aroclor 1248	0.0073	U	0.0039	0.0073	0.036	mg/Kg-dry	1	6/28/2016 4:51 AM
Aroclor 1254	0.0073	U	0.0047	0.0073	0.036	mg/Kg-dry	1	6/28/2016 4:51 AM
Aroclor 1260	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	6/28/2016 4:51 AM
Aroclor 1262	0.0073	U	0.0032	0.0073	0.036	mg/Kg-dry	1	6/28/2016 4:51 AM
Aroclor 1268	0.0073	U	0.0027	0.0073	0.036	mg/Kg-dry	1	6/28/2016 4:51 AM
Surr: Tetrachloro-m-xylene	43.0	Q		44-130		%Rec	1	6/28/2016 4:51 AM
Surr: Decachlorobiphenyl	66.0			60-125		%Rec	1	6/28/2016 4:51 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	6,900		53	140	360	mg/Kg-dry	100	7/21/2016 4:05 PM
Antimony	3.0		0.27	0.36	0.71	mg/Kg-dry	1	7/21/2016 2:47 PM
Arsenic	1.4	J	0.52	0.71	1.4	mg/Kg-dry	1	7/21/2016 2:47 PM
Barium	16		0.21	3.6	7.1	mg/Kg-dry	1	7/21/2016 2:47 PM
Beryllium	0.036	U	0.0090	0.036	0.18	mg/Kg-dry	1	7/21/2016 2:47 PM
Cadmium	0.031	J	0.024	0.036	0.18	mg/Kg-dry	1	7/21/2016 2:47 PM
Calcium	640	X	2.1	7.1	36	mg/Kg-dry	1	7/21/2016 2:47 PM
Chromium	10		0.059	0.29	0.36	mg/Kg-dry	1	7/25/2016 3:33 PM
Cobalt	3.3		0.064	0.18	0.71	mg/Kg-dry	1	7/21/2016 2:47 PM
Copper	29	X	0.30	0.71	3.6	mg/Kg-dry	1	7/21/2016 2:47 PM
Iron	14,000		22	36	110	mg/Kg-dry	10	7/21/2016 3:54 PM
Lead	2.2	J	0.44	0.71	3.6	mg/Kg-dry	1	7/21/2016 2:47 PM
Magnesium	1,300	X	2.5	3.6	36	mg/Kg-dry	1	7/21/2016 2:47 PM
Manganese	210		1.3	1.8	7.1	mg/Kg-dry	10	7/21/2016 3:54 PM
Nickel	6.5		0.20	0.71	3.6	mg/Kg-dry	1	7/21/2016 2:47 PM
Potassium	840	X	1.7	7.1	14	mg/Kg-dry	1	7/21/2016 2:47 PM
Selenium	1.1	UX	0.83	1.1	1.4	mg/Kg-dry	1	7/21/2016 2:47 PM
Silver	0.18	U	0.058	0.18	0.71	mg/Kg-dry	1	7/21/2016 2:47 PM
Sodium	77		1.5	3.6	36	mg/Kg-dry	1	7/21/2016 2:47 PM
Vanadium	19	X	0.090	0.71	1.8	mg/Kg-dry	1	7/21/2016 2:47 PM
Zinc	14		0.28	0.36	3.6	mg/Kg-dry	1	7/21/2016 2:47 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.089	J	0.036	0.037	0.15	mg/Kg-dry	10	8/9/2016 11:47 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	UX	0.010	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
1,2-Dichlorobenzene	0.019	UX	0.0080	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
1,3-Dichlorobenzene	0.019	UX	0.0077	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
1,4-Dichlorobenzene	0.019	UX	0.0059	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
2,4,5-Trichlorophenol	0.037	UX	0.018	0.037	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 3:10:00 PM
Project: Camp Hero
Lab ID: 1606652-015 **Matrix:** Soil
Client Sample ID: H17-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.037	UX	0.021	0.037	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
2,4-Dichlorophenol	0.093	UX	0.032	0.093	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
2,4-Dimethyl phenol	0.093	UX	0.035	0.093	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
2,4-Dinitrophenol	0.19	UQX	0.11	0.19	0.92	mg/Kg-dry	1	7/1/2016 5:53 AM
2,4-Dinitrotoluene	0.019	UX	0.016	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
2,6-Dinitrotoluene	0.019	UX	0.018	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
2-Chloronaphthalene	0.019	UX	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
2-Chlorophenol	0.093	UX	0.039	0.093	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
2-Methylphenol (o-Cresol)	0.093	UX	0.040	0.093	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
2-Nitroaniline	0.019	UX	0.0090	0.019	0.36	mg/Kg-dry	1	7/1/2016 5:53 AM
2-Nitrophenol	0.093	UX	0.046	0.093	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
3,3´-Dichlorobenzidine	0.74	UQX	0.47	0.74	1.1	mg/Kg-dry	1	7/1/2016 5:53 AM
3-Nitroaniline	0.019	UX	0.013	0.019	0.36	mg/Kg-dry	1	7/1/2016 5:53 AM
3/4-Methylphenol [m/p-Cresol]	0.093	UX	0.066	0.093	0.36	mg/Kg-dry	1	7/1/2016 5:53 AM
4,6-Dinitro-2-methylphenol	0.093	UX	0.053	0.093	0.36	mg/Kg-dry	1	7/1/2016 5:53 AM
4-Bromophenyl phenyl ether	0.093	UX	0.047	0.093	0.22	mg/Kg-dry	1	7/1/2016 5:53 AM
4-Chloro-3-methylphenol	0.037	UX	0.019	0.037	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
4-Chloroaniline [p-Chloroaniline]	0.093	UX	0.028	0.093	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
4-Chlorophenyl phenyl ether	0.019	UX	0.011	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
4-Nitroaniline	0.093	UX	0.027	0.093	0.36	mg/Kg-dry	1	7/1/2016 5:53 AM
4-Nitrophenol	0.37	UX	0.27	0.37	0.92	mg/Kg-dry	1	7/1/2016 5:53 AM
Benzoic acid	0.37	UYQXZ	0.15	0.37	1.1	mg/Kg-dry	1	7/1/2016 5:53 AM
Benzyl alcohol	0.019	UX	0.0089	0.019	0.73	mg/Kg-dry	1	7/1/2016 5:53 AM
Bis(2-chloroethoxy) methane	0.019	UX	0.0077	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Bis(2-chloroethyl) ether	0.037	UX	0.020	0.037	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Bis(2-chloroisopropyl)ether	0.019	UXZ	0.0085	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Bis(2-ethylhexyl) phthalate	0.037	UX	0.033	0.037	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Butyl benzyl phthalate	0.037	UX	0.022	0.037	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Carbazole	0.019	UX	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Di-n-butyl phthalate	0.037	UX	0.020	0.037	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Di-n-octyl phthalate	0.020	JX	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Dibenzofuran	0.019	UX	0.0094	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Diethyl phthalate	0.019	UX	0.014	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Dimethyl phthalate	0.019	UX	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Hexachlorobenzene	0.019	UX	0.010	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Hexachlorobutadiene	0.019	UYX	0.017	0.019	0.056	mg/Kg-dry	1	7/1/2016 5:53 AM
Hexachloroethane	0.019	UX	0.0085	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Isophorone	0.019	UX	0.0077	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
N-Nitroso-di-n-propylamine	0.019	UX	0.010	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
N-Nitrosodimethylamine	0.019	UYX	0.0090	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
N-Nitrosodiphenylamine	0.019	UX	0.0090	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Nitrobenzene	0.019	UX	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 3:10:00 PM
Project: Camp Hero
Lab ID: 1606652-015 **Matrix:** Soil
Client Sample ID: H17-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pentachlorophenol	0.093	UY QX	0.070	0.093	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Phenol	0.093	UX	0.040	0.093	0.18	mg/Kg-dry	1	7/1/2016 5:53 AM
Surr: 2,4,6-Tribromophenol	72.9			39-132		%Rec	1	7/1/2016 5:53 AM
Surr: 2-Fluorobiphenyl	66.7			44-115		%Rec	1	7/1/2016 5:53 AM
Surr: 2-Fluorophenol	62.7			35-115		%Rec	1	7/1/2016 5:53 AM
Surr: Nitrobenzene-d5	67.4			37-122		%Rec	1	7/1/2016 5:53 AM
Surr: Phenol-d5	63.2			33-122		%Rec	1	7/1/2016 5:53 AM
Surr: Terphenyl-d14	72.8			54-127		%Rec	1	7/1/2016 5:53 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
1-Methylnaphthalene	0.0040	YX	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
2-Methylnaphthalene	0.0017		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Acenaphthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Acenaphthylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Benzo(a)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Benzo(a)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Benzo(b)fluoranthene	0.0011		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Benzo(g,h,i)perylene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Benzo(k)fluoranthene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Chrysene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Dibenzo(a,h)anthracene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Fluoranthene	0.0014		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Fluorene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Indeno(1,2,3-cd)pyrene	0.00074	U	0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Naphthalene	0.0010		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Phenanthrene	0.00084		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Pyrene	0.0011		0.00074	0.00074	0.00074	mg/Kg-dry	1	7/23/2016 2:02 PM
Surr: 2-Fluorobiphenyl	86.3			46-115		%Rec	1	7/23/2016 2:02 PM
Surr: Nitrobenzene-d5	86.9			44-125		%Rec	1	7/23/2016 2:02 PM
Surr: Terphenyl-d14	99.4			58-133		%Rec	1	7/23/2016 2:02 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00055	U	0.00026	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
1,1,1-Trichloroethane	0.00055	U	0.00019	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
1,1,2,2-Tetrachloroethane	0.00055	U	0.00049	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
1,1,2-Trichloroethane	0.00055	U	0.00036	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
1,1-Dichloroethane	0.00055	U	0.00014	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
1,1-Dichloroethene	0.00055	U	0.00019	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
1,2,3-Trichloropropane	0.00055	UX	0.00032	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
1,2-Dibromo-3-chloropropane	0.0018	UQ X	0.0013	0.0018	0.0046	mg/Kg-dry	0.82	6/29/2016 11:53 PM
1,2-Dibromoethane	0.00055	U	0.00041	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
1,2-Dichloroethane	0.00055	U	0.00012	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
1,2-Dichloropropane	0.00055	U	0.00025	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 3:10:00 PM
Project: Camp Hero
Lab ID: 1606652-015 **Matrix:** Soil
Client Sample ID: H17-SB01-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2-Butanone [MEK]	0.0092	UQ X	0.0054	0.0092	0.018	mg/Kg-dry	0.82	6/29/2016 11:53 PM
2-Hexanone	0.0018	UB QX Z	0.00058	0.0018	0.0046	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Acetone	0.010	QX	0.00084	0.0018	0.0092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Benzene	0.00055	U	0.00025	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Bromodichloromethane	0.00055	U	0.00018	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Bromoform	0.00055	U	0.00030	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Carbon disulfide	0.00055	U	0.00017	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Carbon tetrachloride	0.00055	U	0.00020	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Chlorobenzene	0.00055	UX	0.00017	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Chlorodibromomethane	0.00055	UX	0.00032	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Chloroethane	0.00092	U	0.00069	0.00092	0.0018	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Chloroform	0.00055	U	0.00044	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Chloromethane	0.0012	BQ Z	0.00032	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
cis-1,2-Dichloroethene	0.00055	U	0.00051	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
cis-1,3-Dichloropropene	0.00055	U	0.00015	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Dichlorodifluoromethane [Freon-12]	0.00055	UZ	0.00035	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Ethylbenzene	0.00055	UX	0.00020	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Methylene chloride	0.0012	JQ	0.00097	0.0018	0.0046	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Styrene	0.00055	UX	0.00021	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Tetrachloroethene	0.00055	UX	0.00029	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Toluene	0.00055	UX	0.00025	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
trans-1,2-Dichloroethene	0.00055	U	0.00017	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
trans-1,3-Dichloropropene	0.00055	U	0.00021	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Trichloroethene	0.00055	U	0.00035	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Trichlorofluoromethane [Freon-11]	0.00055	U	0.00021	0.00055	0.00092	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Vinyl acetate	0.00055	UX Z	0.00043	0.00055	0.0046	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Vinyl chloride	0.00055	U	0.00028	0.00055	0.00073	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Xylene (Total)	0.0017	UX	0.00042	0.0017	0.0028	mg/Kg-dry	0.82	6/29/2016 11:53 PM
Surr: 4-Bromofluorobenzene	89.9			79-119		%Rec	0.82	6/29/2016 11:53 PM
Surr: Dibromofluoromethane	90.0			78-119		%Rec	0.82	6/29/2016 11:53 PM
Surr: Toluene-d8	87.6			85-116		%Rec	0.82	6/29/2016 11:53 PM

Percent Moisture **Method: ASTM-D2216** **Analyst: NS1**

Percent Moisture	11		1.0	1.0	1.0	wt%	1	6/24/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:40:00 PM
Project: Camp Hero
Lab ID: 1606652-016 **Matrix:** Soil
Client Sample ID: H17-SB02-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	6/28/2016 9:20 AM
Aroclor 1221	0.0075	U	0.0034	0.0075	0.037	mg/Kg-dry	1	6/28/2016 9:20 AM
Aroclor 1232	0.0075	U	0.0051	0.0075	0.037	mg/Kg-dry	1	6/28/2016 9:20 AM
Aroclor 1242	0.0075	U	0.0042	0.0075	0.037	mg/Kg-dry	1	6/28/2016 9:20 AM
Aroclor 1248	0.0075	U	0.0040	0.0075	0.037	mg/Kg-dry	1	6/28/2016 9:20 AM
Aroclor 1254	0.0075	U	0.0048	0.0075	0.037	mg/Kg-dry	1	6/28/2016 9:20 AM
Aroclor 1260	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	6/28/2016 9:20 AM
Aroclor 1262	0.0075	U	0.0033	0.0075	0.037	mg/Kg-dry	1	6/28/2016 9:20 AM
Aroclor 1268	0.0075	U	0.0027	0.0075	0.037	mg/Kg-dry	1	6/28/2016 9:20 AM
Surr: Tetrachloro-m-xylene	44.0			44-130		%Rec	1	6/28/2016 9:20 AM
Surr: Decachlorobiphenyl	53.1	Q		60-125		%Rec	1	6/28/2016 9:20 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	11,000		57	150	380	mg/Kg-dry	100	7/28/2016 3:09 PM
Antimony	3.3		0.29	0.38	0.76	mg/Kg-dry	1	7/28/2016 1:48 PM
Arsenic	2.0		0.55	0.76	1.5	mg/Kg-dry	1	7/28/2016 1:48 PM
Barium	22		0.23	3.8	7.6	mg/Kg-dry	1	7/28/2016 1:48 PM
Beryllium	0.084	J	0.0097	0.038	0.19	mg/Kg-dry	1	7/28/2016 1:48 PM
Cadmium	0.055	J	0.025	0.038	0.19	mg/Kg-dry	1	7/28/2016 1:48 PM
Calcium	490		2.2	7.6	38	mg/Kg-dry	1	7/28/2016 1:48 PM
Chromium	14		0.063	0.30	0.38	mg/Kg-dry	1	8/2/2016 1:21 PM
Cobalt	3.3		0.069	0.19	0.76	mg/Kg-dry	1	7/28/2016 1:48 PM
Copper	37		0.32	0.76	3.8	mg/Kg-dry	1	7/28/2016 1:48 PM
Iron	18,000		240	380	1,100	mg/Kg-dry	100	7/28/2016 3:09 PM
Lead	3.5	J	0.47	0.76	3.8	mg/Kg-dry	1	7/28/2016 1:48 PM
Magnesium	1,200		2.7	3.8	38	mg/Kg-dry	1	7/28/2016 1:48 PM
Manganese	140		0.14	0.19	0.76	mg/Kg-dry	1	7/28/2016 1:48 PM
Nickel	6.1		0.21	0.76	3.8	mg/Kg-dry	1	7/28/2016 1:48 PM
Potassium	470		1.8	7.6	15	mg/Kg-dry	1	7/28/2016 1:48 PM
Selenium	1.1	U	0.89	1.1	1.5	mg/Kg-dry	1	7/28/2016 1:48 PM
Silver	0.19	U	0.062	0.19	0.76	mg/Kg-dry	1	7/28/2016 1:48 PM
Sodium	59		1.6	3.8	38	mg/Kg-dry	1	7/28/2016 1:48 PM
Vanadium	28		0.097	0.76	1.9	mg/Kg-dry	1	7/28/2016 1:48 PM
Zinc	14		0.29	0.38	3.8	mg/Kg-dry	1	8/2/2016 1:21 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.090	J	0.037	0.038	0.15	mg/Kg-dry	10	7/15/2016 2:20 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
1,2-Dichlorobenzene	0.019	U	0.0083	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
1,3-Dichlorobenzene	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
1,4-Dichlorobenzene	0.019	U	0.0061	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:40:00 PM
Project: Camp Hero
Lab ID: 1606652-016 **Matrix:** Soil
Client Sample ID: H17-SB02-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
2,4-Dichlorophenol	0.096	U	0.033	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
2,4-Dimethyl phenol	0.096	U	0.037	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
2,4-Dinitrophenol	0.19	UQ	0.11	0.19	0.95	mg/Kg-dry	1	7/1/2016 10:28 AM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
2-Chlorophenol	0.096	U	0.040	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
2-Methylphenol (o-Cresol)	0.096	U	0.041	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
2-Nitroaniline	0.019	U	0.0093	0.019	0.37	mg/Kg-dry	1	7/1/2016 10:28 AM
2-Nitrophenol	0.096	U	0.047	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
3,3´-Dichlorobenzidine	0.77	UQ	0.49	0.77	1.1	mg/Kg-dry	1	7/1/2016 10:28 AM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	7/1/2016 10:28 AM
3/4-Methylphenol [m/p-Cresol]	0.096	U	0.068	0.096	0.37	mg/Kg-dry	1	7/1/2016 10:28 AM
4,6-Dinitro-2-methylphenol	0.096	U	0.055	0.096	0.37	mg/Kg-dry	1	7/1/2016 10:28 AM
4-Bromophenyl phenyl ether	0.096	U	0.049	0.096	0.23	mg/Kg-dry	1	7/1/2016 10:28 AM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
4-Chloroaniline [p-Chloroaniline]	0.096	U	0.029	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
4-Nitroaniline	0.096	U	0.028	0.096	0.37	mg/Kg-dry	1	7/1/2016 10:28 AM
4-Nitrophenol	0.38	U	0.27	0.38	0.95	mg/Kg-dry	1	7/1/2016 10:28 AM
Benzoic acid	0.38	UY QZ	0.15	0.38	1.1	mg/Kg-dry	1	7/1/2016 10:28 AM
Benzyl alcohol	0.019	U	0.0092	0.019	0.76	mg/Kg-dry	1	7/1/2016 10:28 AM
Bis(2-chloroethoxy) methane	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Bis(2-chloroethyl) ether	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0088	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Bis(2-ethylhexyl) phthalate	0.038	U	0.034	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Butyl benzyl phthalate	0.038	U	0.023	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Di-n-butyl phthalate	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Dibenzofuran	0.019	U	0.0098	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Hexachlorobutadiene	0.019	UY	0.017	0.019	0.057	mg/Kg-dry	1	7/1/2016 10:28 AM
Hexachloroethane	0.019	U	0.0088	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Isophorone	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
N-Nitrosodimethylamine	0.019	UY	0.0093	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
N-Nitrosodiphenylamine	0.019	U	0.0093	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Pentachlorophenol	0.096	UY Q	0.072	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Phenol	0.096	U	0.041	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:28 AM
Surr: 2,4,6-Tribromophenol	72.7			39-132		%Rec	1	7/1/2016 10:28 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:40:00 PM
Project: Camp Hero
Lab ID: 1606652-016 **Matrix:** Soil
Client Sample ID: H17-SB02-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	66.1			44-115		%Rec	1	7/1/2016 10:28 AM
Surr: 2-Fluorophenol	59.8			35-115		%Rec	1	7/1/2016 10:28 AM
Surr: Nitrobenzene-d5	69.4			37-122		%Rec	1	7/1/2016 10:28 AM
Surr: Phenol-d5	60.4			33-122		%Rec	1	7/1/2016 10:28 AM
Surr: Terphenyl-d14	71.4			54-127		%Rec	1	7/1/2016 10:28 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
1-Methylnaphthalene	0.00077	UY	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
2-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Benzo(a)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Benzo(a)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Benzo(b)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Benzo(g,h,i)perylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Benzo(k)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Chrysene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Naphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Phenanthrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:19 PM
Surr: 2-Fluorobiphenyl	99.2			46-115		%Rec	1	7/23/2016 3:19 PM
Surr: Nitrobenzene-d5	105			44-125		%Rec	1	7/23/2016 3:19 PM
Surr: Terphenyl-d14	109			58-133		%Rec	1	7/23/2016 3:19 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00061	U	0.00029	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
1,1,1-Trichloroethane	0.00061	U	0.00022	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
1,1,2,2-Tetrachloroethane	0.00061	U	0.00054	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
1,1,2-Trichloroethane	0.00061	U	0.00040	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
1,1-Dichloroethane	0.00061	U	0.00015	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
1,1-Dichloroethene	0.00061	U	0.00021	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
1,2,3-Trichloropropane	0.00061	U	0.00036	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
1,2-Dibromo-3-chloropropane	0.0020	UQ	0.0014	0.0020	0.0051	mg/Kg-dry	0.88	6/30/2016 1:38 AM
1,2-Dibromoethane	0.00061	U	0.00046	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
1,2-Dichloroethane	0.00061	U	0.00014	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
1,2-Dichloropropane	0.00061	U	0.00028	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
2-Butanone [MEK]	0.0064	JQ	0.0061	0.010	0.020	mg/Kg-dry	0.88	6/30/2016 1:38 AM
2-Hexanone	0.0020	UB QZ	0.00064	0.0020	0.0051	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Acetone	0.068	Q	0.00093	0.0020	0.010	mg/Kg-dry	0.88	6/30/2016 1:38 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 2:40:00 PM
Project:	Camp Hero		
Lab ID:	1606652-016	**Matrix:**	Soil
Client Sample ID:	H17-SB02-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00061	U	0.00028	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Bromodichloromethane	0.00061	U	0.00020	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Bromoform	0.00061	U	0.00033	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Carbon disulfide	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Carbon tetrachloride	0.00061	U	0.00022	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Chlorobenzene	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Chlorodibromomethane	0.00061	U	0.00035	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Chloroethane	0.0010	U	0.00077	0.0010	0.0020	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Chloroform	0.00061	U	0.00048	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Chloromethane	0.0014	BQ Z	0.00035	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
cis-1,2-Dichloroethene	0.00061	U	0.00057	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
cis-1,3-Dichloropropene	0.00061	U	0.00016	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Dichlorodifluoromethane [Freon-12]	0.00061	UZ	0.00039	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Ethylbenzene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Methylene chloride	0.0011	JQ	0.0011	0.0020	0.0051	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Styrene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Tetrachloroethene	0.00061	U	0.00033	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Toluene	0.00061	U	0.00027	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
trans-1,2-Dichloroethene	0.00061	U	0.00019	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
trans-1,3-Dichloropropene	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Trichloroethene	0.00061	U	0.00039	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Trichlorofluoromethane [Freon-11]	0.00061	U	0.00023	0.00061	0.0010	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Vinyl acetate	0.00061	UZ	0.00048	0.00061	0.0051	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Vinyl chloride	0.00061	U	0.00031	0.00061	0.00082	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Xylene (Total)	0.0018	U	0.00046	0.0018	0.0031	mg/Kg-dry	0.88	6/30/2016 1:38 AM
Surr: 4-Bromofluorobenzene	89.0			79-119		%Rec	0.88	6/30/2016 1:38 AM
Surr: Dibromofluoromethane	92.7			78-119		%Rec	0.88	6/30/2016 1:38 AM
Surr: Toluene-d8	87.7			85-116		%Rec	0.88	6/30/2016 1:38 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/24/2016 2:00 PM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606652-017 **Matrix:** Soil
Client Sample ID: H17-SB03-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	6/28/2016 9:44 AM
Aroclor 1221	0.0077	U	0.0035	0.0077	0.038	mg/Kg-dry	1	6/28/2016 9:44 AM
Aroclor 1232	0.0077	U	0.0052	0.0077	0.038	mg/Kg-dry	1	6/28/2016 9:44 AM
Aroclor 1242	0.0077	U	0.0043	0.0077	0.038	mg/Kg-dry	1	6/28/2016 9:44 AM
Aroclor 1248	0.0077	U	0.0041	0.0077	0.038	mg/Kg-dry	1	6/28/2016 9:44 AM
Aroclor 1254	0.0077	U	0.0049	0.0077	0.038	mg/Kg-dry	1	6/28/2016 9:44 AM
Aroclor 1260	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	6/28/2016 9:44 AM
Aroclor 1262	0.0077	U	0.0034	0.0077	0.038	mg/Kg-dry	1	6/28/2016 9:44 AM
Aroclor 1268	0.0077	U	0.0028	0.0077	0.038	mg/Kg-dry	1	6/28/2016 9:44 AM
Surr: Tetrachloro-m-xylene	45.0			44-130		%Rec	1	6/28/2016 9:44 AM
Surr: Decachlorobiphenyl	63.7			60-125		%Rec	1	6/28/2016 9:44 AM
Target Analyte Metals			**Method: 6010C**		**SW3050B**			**Analyst: BSK**
Metals, ICP/OES								
Aluminum	18,000		55	150	360	mg/Kg-dry	100	7/28/2016 3:12 PM
Antimony	4.9		0.27	0.36	0.73	mg/Kg-dry	1	7/28/2016 1:50 PM
Arsenic	2.2		0.53	0.73	1.5	mg/Kg-dry	1	7/28/2016 1:50 PM
Barium	35		0.22	3.6	7.3	mg/Kg-dry	1	7/28/2016 1:50 PM
Beryllium	0.13	J	0.0092	0.036	0.18	mg/Kg-dry	1	7/28/2016 1:50 PM
Cadmium	0.060	J	0.024	0.036	0.18	mg/Kg-dry	1	7/28/2016 1:50 PM
Calcium	460		2.1	7.3	36	mg/Kg-dry	1	7/28/2016 1:50 PM
Chromium	17		0.060	0.29	0.36	mg/Kg-dry	1	8/2/2016 1:23 PM
Cobalt	4.7		0.066	0.18	0.73	mg/Kg-dry	1	7/28/2016 1:50 PM
Copper	38		0.30	0.73	3.6	mg/Kg-dry	1	7/28/2016 1:50 PM
Iron	18,000		23	36	110	mg/Kg-dry	10	7/28/2016 3:10 PM
Lead	5.1		0.45	0.73	3.6	mg/Kg-dry	1	7/28/2016 1:50 PM
Magnesium	2,600		26	36	360	mg/Kg-dry	10	7/28/2016 3:10 PM
Manganese	170		0.13	0.18	0.73	mg/Kg-dry	1	7/28/2016 1:50 PM
Nickel	9.9		0.21	0.73	3.6	mg/Kg-dry	1	7/28/2016 1:50 PM
Potassium	770		1.7	7.3	15	mg/Kg-dry	1	7/28/2016 1:50 PM
Selenium	1.1	U	0.85	1.1	1.5	mg/Kg-dry	1	7/28/2016 1:50 PM
Silver	0.18	U	0.060	0.18	0.73	mg/Kg-dry	1	7/28/2016 1:50 PM
Sodium	63		1.5	3.6	36	mg/Kg-dry	1	7/28/2016 1:50 PM
Vanadium	25		0.093	0.73	1.8	mg/Kg-dry	1	7/28/2016 1:50 PM
Zinc	22		0.28	0.36	3.6	mg/Kg-dry	1	8/2/2016 1:23 PM
Metals, ICP/MS			**Method: 6020A-TL**		**SW3050B**			**Analyst: BK**
Thallium	0.12	J	0.036	0.037	0.15	mg/Kg-dry	10	7/15/2016 2:21 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3546**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
1,2-Dichlorobenzene	0.019	U	0.0083	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
1,3-Dichlorobenzene	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
1,4-Dichlorobenzene	0.019	U	0.0061	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
2,4,5-Trichlorophenol	0.038	U	0.019	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606652-017 **Matrix:** Soil
Client Sample ID: H17-SB03-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,6-Trichlorophenol	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
2,4-Dichlorophenol	0.096	U	0.033	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
2,4-Dimethyl phenol	0.096	U	0.037	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
2,4-Dinitrophenol	0.19	UQ	0.11	0.19	0.95	mg/Kg-dry	1	7/1/2016 10:53 AM
2,4-Dinitrotoluene	0.019	U	0.017	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
2,6-Dinitrotoluene	0.019	U	0.018	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
2-Chloronaphthalene	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
2-Chlorophenol	0.096	U	0.040	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
2-Methylphenol (o-Cresol)	0.096	U	0.041	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
2-Nitroaniline	0.019	U	0.0093	0.019	0.37	mg/Kg-dry	1	7/1/2016 10:53 AM
2-Nitrophenol	0.096	U	0.047	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
3,3´-Dichlorobenzidine	0.77	UQ	0.49	0.77	1.1	mg/Kg-dry	1	7/1/2016 10:53 AM
3-Nitroaniline	0.019	U	0.013	0.019	0.37	mg/Kg-dry	1	7/1/2016 10:53 AM
3/4-Methylphenol [m/p-Cresol]	0.096	U	0.068	0.096	0.37	mg/Kg-dry	1	7/1/2016 10:53 AM
4,6-Dinitro-2-methylphenol	0.096	U	0.055	0.096	0.37	mg/Kg-dry	1	7/1/2016 10:53 AM
4-Bromophenyl phenyl ether	0.096	U	0.049	0.096	0.23	mg/Kg-dry	1	7/1/2016 10:53 AM
4-Chloro-3-methylphenol	0.038	U	0.020	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
4-Chloroaniline [p-Chloroaniline]	0.096	U	0.029	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
4-Chlorophenyl phenyl ether	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
4-Nitroaniline	0.096	U	0.028	0.096	0.37	mg/Kg-dry	1	7/1/2016 10:53 AM
4-Nitrophenol	0.38	U	0.27	0.38	0.95	mg/Kg-dry	1	7/1/2016 10:53 AM
Benzoic acid	0.38	UY QZ	0.15	0.38	1.1	mg/Kg-dry	1	7/1/2016 10:53 AM
Benzyl alcohol	0.019	U	0.0092	0.019	0.76	mg/Kg-dry	1	7/1/2016 10:53 AM
Bis(2-chloroethoxy) methane	0.019	U	0.0080	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Bis(2-chloroethyl) ether	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Bis(2-chloroisopropyl)ether	0.019	UZ	0.0087	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Bis(2-ethylhexyl) phthalate	0.038	U	0.034	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Butyl benzyl phthalate	0.038	U	0.023	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Carbazole	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Di-n-butyl phthalate	0.038	U	0.021	0.038	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Di-n-octyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Dibenzofuran	0.019	U	0.0097	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Diethyl phthalate	0.019	U	0.014	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Dimethyl phthalate	0.019	U	0.013	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Hexachlorobenzene	0.019	U	0.010	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Hexachlorobutadiene	0.019	UY	0.017	0.019	0.057	mg/Kg-dry	1	7/1/2016 10:53 AM
Hexachloroethane	0.019	U	0.0088	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Isophorone	0.019	U	0.0079	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
N-Nitroso-di-n-propylamine	0.019	U	0.011	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
N-Nitrosodimethylamine	0.019	UY	0.0093	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
N-Nitrosodiphenylamine	0.019	U	0.0093	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Nitrobenzene	0.019	U	0.012	0.019	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Pentachlorophenol	0.096	UY Q	0.072	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Phenol	0.096	U	0.041	0.096	0.18	mg/Kg-dry	1	7/1/2016 10:53 AM
Surr: 2,4,6-Tribromophenol	82.0			39-132		%Rec	1	7/1/2016 10:53 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/16/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606652-017 **Matrix:** Soil
Client Sample ID: H17-SB03-05

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	68.9			44-115		%Rec	1	7/1/2016 10:53 AM
Surr: 2-Fluorophenol	62.6			35-115		%Rec	1	7/1/2016 10:53 AM
Surr: Nitrobenzene-d5	70.4			37-122		%Rec	1	7/1/2016 10:53 AM
Surr: Phenol-d5	63.9			33-122		%Rec	1	7/1/2016 10:53 AM
Surr: Terphenyl-d14	75.7			54-127		%Rec	1	7/1/2016 10:53 AM
Polynuclear Hydrocarbons Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3550C**			**Analyst: KAL**
1-Methylnaphthalene	0.00077	UY	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
2-Methylnaphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Acenaphthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Acenaphthylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Benzo(a)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Benzo(a)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Benzo(b)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Benzo(g,h,i)perylene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Benzo(k)fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Chrysene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Dibenzo(a,h)anthracene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Fluoranthene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Fluorene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Indeno(1,2,3-cd)pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Naphthalene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Phenanthrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Pyrene	0.00077	U	0.00077	0.00077	0.00077	mg/Kg-dry	1	7/23/2016 3:45 PM
Surr: 2-Fluorobiphenyl	109			46-115		%Rec	1	7/23/2016 3:45 PM
Surr: Nitrobenzene-d5	115			44-125		%Rec	1	7/23/2016 3:45 PM
Surr: Terphenyl-d14	122			58-133		%Rec	1	7/23/2016 3:45 PM
TCL for Low Level Soil Volatile Organic Compounds			**Method: 8260C**					**Analyst: AS1**
1,1,1,2-Tetrachloroethane	0.00058	U	0.00028	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
1,1,1-Trichloroethane	0.00058	U	0.00021	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
1,1,2,2-Tetrachloroethane	0.00058	U	0.00052	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
1,1,2-Trichloroethane	0.00058	U	0.00038	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
1,1-Dichloroethane	0.00058	U	0.00015	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
1,1-Dichloroethene	0.00058	U	0.00020	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
1,2,3-Trichloropropane	0.00058	U	0.00034	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
1,2-Dibromo-3-chloropropane	0.0019	UQ	0.0014	0.0019	0.0049	mg/Kg-dry	0.84	6/30/2016 1:12 AM
1,2-Dibromoethane	0.00058	U	0.00044	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
1,2-Dichloroethane	0.00058	U	0.00013	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
1,2-Dichloropropane	0.00058	U	0.00027	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
2-Butanone [MEK]	0.0097	UQ	0.0058	0.0097	0.019	mg/Kg-dry	0.84	6/30/2016 1:12 AM
2-Hexanone	0.0019	UB QZ	0.00061	0.0019	0.0049	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Acetone	0.078	Q	0.00089	0.0019	0.0097	mg/Kg-dry	0.84	6/30/2016 1:12 AM

RTI Laboratories - Analytical Report

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/16/2016 2:45:00 PM
Project:	Camp Hero		
Lab ID:	1606652-017	**Matrix:**	Soil
Client Sample ID:	H17-SB03-05		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzene	0.00058	U	0.00026	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Bromodichloromethane	0.00058	U	0.00020	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Bromoform	0.00058	U	0.00032	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Carbon disulfide	0.00058	U	0.00018	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Carbon tetrachloride	0.00058	U	0.00021	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Chlorobenzene	0.00058	U	0.00018	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Chlorodibromomethane	0.00058	U	0.00034	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Chloroethane	0.00097	U	0.00074	0.00097	0.0019	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Chloroform	0.00058	U	0.00046	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Chloromethane	0.0014	BQ Z	0.00034	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
cis-1,2-Dichloroethene	0.00058	U	0.00055	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
cis-1,3-Dichloropropene	0.00058	U	0.00016	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Dichlorodifluoromethane [Freon-12]	0.00058	UZ	0.00037	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Ethylbenzene	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Methylene chloride	0.0019	UQ	0.0010	0.0019	0.0049	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Styrene	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Tetrachloroethene	0.00058	U	0.00031	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Toluene	0.00058	U	0.00026	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
trans-1,2-Dichloroethene	0.00058	U	0.00018	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
trans-1,3-Dichloropropene	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Trichloroethene	0.00058	U	0.00037	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Trichlorofluoromethane [Freon-11]	0.00058	U	0.00022	0.00058	0.00097	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Vinyl acetate	0.00058	UZ	0.00046	0.00058	0.0049	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Vinyl chloride	0.00058	U	0.00030	0.00058	0.00078	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Xylene (Total)	0.0018	U	0.00044	0.0018	0.0029	mg/Kg-dry	0.84	6/30/2016 1:12 AM
Surr: 4-Bromofluorobenzene	86.6			79-119		%Rec	0.84	6/30/2016 1:12 AM
Surr: Dibromofluoromethane	96.7			78-119		%Rec	0.84	6/30/2016 1:12 AM
Surr: Toluene-d8	87.4			85-116		%Rec	0.84	6/30/2016 1:12 AM
Percent Moisture			**Method: ASTM-D2216**					**Analyst: NS1**
Percent Moisture	14		1.0	1.0	1.0	wt%	1	6/24/2016 2:00 PM

RTI Laboratories - DATES REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606652-001A	TB-SO-061616-01	6/16/2016 8:05 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/29/2016 7:27 PM	6/29/2016 7:27 PM
1606652-002A	WDS-SB18-12	6/16/2016 8:30 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/23/2016 4:03 PM	6/23/2016 4:03 PM
1606652-002D	WDS-SB18-12	6/16/2016 8:30 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 2:09 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 5:34 PM
1606652-002E	WDS-SB18-12	6/16/2016 8:30 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:15 AM	7/21/2016 10:38 AM
1606652-002F	WDS-SB18-12	6/16/2016 8:30 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:15 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:39 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:38 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:11 PM
1606652-002G	WDS-SB18-12	6/16/2016 8:30 AM	Soil				
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606652-003A	WDS-SB19-12	6/16/2016 8:30 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/23/2016 4:29 PM	6/23/2016 4:29 PM
1606652-003D	WDS-SB19-12	6/16/2016 8:30 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 2:34 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 6:02 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	8/4/2016 6:57 PM
1606652-003E	WDS-SB19-12	6/16/2016 8:30 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:16 AM	7/24/2016 9:57 PM
1606652-003F	WDS-SB19-12	6/16/2016 8:30 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:16 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:41 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:40 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:13 PM
1606652-003G	WDS-SB19-12	6/16/2016 8:30 AM	Soil				
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM

RTI Laboratories - DATES REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606652-004A	201-SB01-10	6/16/2016 9:15 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/29/2016 7:53 PM	6/29/2016 7:53 PM
1606652-004D	201-SB01-10	6/16/2016 9:15 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 2:59 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 6:30 PM
1606652-004E	201-SB01-10	6/16/2016 9:15 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:16 AM	7/24/2016 10:22 PM
1606652-004F	201-SB01-10	6/16/2016 9:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:17 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:42 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:41 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:14 PM
1606652-004G	201-SB01-10	6/16/2016 9:15 AM	Soil				
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606652-005A	201-SB01-25	6/16/2016 9:20 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/29/2016 8:20 PM	6/29/2016 8:20 PM
1606652-005D	201-SB01-25	6/16/2016 9:20 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 3:23 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 1:22 PM
1606652-005E	201-SB01-25	6/16/2016 9:20 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:16 AM	7/24/2016 10:46 PM
1606652-005F	201-SB01-25	6/16/2016 9:20 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:07 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 11:43 AM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:10 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:12 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:01 PM
1606652-005G	201-SB01-25	6/16/2016 9:20 AM	Soil				
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606652-006A	203-SB01-10	6/16/2016 10:10 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/29/2016 8:46 PM	6/29/2016 8:46 PM

RTI Laboratories - DATES REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606652-006D	203-SB01-10	6/16/2016 10:10 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 7:08 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 6:58 PM
1606652-006E	203-SB01-10	6/16/2016 10:10 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:16 AM	7/24/2016 11:59 PM
1606652-006F	203-SB01-10	6/16/2016 10:10 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:40 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:12 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:39 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:41 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:23 PM
1606652-006G	203-SB01-10	6/16/2016 10:10 AM	Soil				
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606652-007A	203-SB01-12	6/16/2016 10:45 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/23/2016 6:14 PM	6/23/2016 6:14 PM
1606652-007D	203-SB01-12	6/16/2016 10:45 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 7:33 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 7:25 PM
1606652-007E	203-SB01-12	6/16/2016 10:45 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:16 AM	7/25/2016 12:23 AM
1606652-007F	203-SB01-12	6/16/2016 10:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:18 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:44 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:43 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 2:44 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:17 PM
1606652-007G	203-SB01-12	6/16/2016 10:45 AM	Soil				
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606652-008A	203-SB02-02	6/16/2016 11:15 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/23/2016 6:41 PM	6/23/2016 6:41 PM
1606652-008D	203-SB02-02	6/16/2016 11:15 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 7:58 AM

RTI Laboratories - DATES REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606652-008D	203-SB02-02	6/16/2016 11:15 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 7:53 PM
1606652-008E	203-SB02-02	6/16/2016 11:15 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/28/2016 6:54 AM
1606652-008F	203-SB02-02	6/16/2016 11:15 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:41 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:32 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:42 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:44 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:35 PM
1606652-008G	203-SB02-02	6/16/2016 11:15 AM	Soil				
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606652-009A	203-SB03-04	6/16/2016 11:40 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/29/2016 9:13 PM	6/29/2016 9:13 PM
1606652-009D	203-SB03-04	6/16/2016 11:40 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 8:23 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 8:21 PM
1606652-009E	203-SB03-04	6/16/2016 11:40 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/28/2016 7:18 AM
1606652-009F	203-SB03-04	6/16/2016 11:40 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:42 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:34 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:45 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:47 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:37 PM
1606652-009G	203-SB03-04	6/16/2016 11:40 AM	Soil				
				PMOIST-Percent Moisture		6/23/2016 2:00 PM	6/23/2016 2:00 PM
1606652-010A	203-SB03-05	6/16/2016 11:45 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/29/2016 9:39 PM	6/29/2016 9:39 PM
1606652-010D	203-SB03-05	6/16/2016 11:45 AM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 8:48 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 8:48 PM

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Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606652-010E	203-SB03-05	6/16/2016 11:45 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/28/2016 7:42 AM
1606652-010F	203-SB03-05	6/16/2016 11:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:19 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:45 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 3:03 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 3:04 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:18 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:42 PM
1606652-010G	203-SB03-05	6/16/2016 11:45 AM	Soil				
				PMOIST-Percent Moisture		6/24/2016 2:00 PM	6/24/2016 2:00 PM
1606652-011A	203-SB04-11	6/16/2016 10:55 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/29/2016 10:06 PM	6/29/2016 10:06 PM
1606652-011D	203-SB04-11	6/16/2016 10:55 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/27/2016 8:47 AM	7/23/2016 12:45 PM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/27/2016 8:47 AM	7/23/2016 2:56 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 9:13 AM
1606652-011E	203-SB04-11	6/16/2016 10:55 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/28/2016 8:07 AM
1606652-011F	203-SB04-11	6/16/2016 10:55 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:43 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:35 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:48 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 1:50 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:38 PM
1606652-011G	203-SB04-11	6/16/2016 10:55 AM	Soil				
				PMOIST-Percent Moisture		6/24/2016 2:00 PM	6/24/2016 2:00 PM
1606652-012A	203-SB04-14	6/16/2016 11:10 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/29/2016 10:33 PM	6/29/2016 10:33 PM
1606652-012D	203-SB04-14	6/16/2016 11:10 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/27/2016 8:47 AM	7/23/2016 1:11 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 9:38 AM

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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606652-012E	203-SB04-14	6/16/2016 11:10 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/28/2016 8:31 AM
1606652-012F	203-SB04-14	6/16/2016 11:10 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:20 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:47 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 3:06 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 3:07 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:20 PM
1606652-012G	203-SB04-14	6/16/2016 11:10 AM	Soil				
				PMOIST-Percent Moisture		6/24/2016 2:00 PM	6/24/2016 2:00 PM
1606652-013A	203-SB05-05	6/16/2016 11:45 AM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/30/2016 12:45 AM	6/30/2016 12:45 AM
1606652-013D	203-SB05-05	6/16/2016 11:45 AM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/27/2016 8:47 AM	7/23/2016 1:37 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 10:03 AM
1606652-013E	203-SB05-05	6/16/2016 11:45 AM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/28/2016 8:55 AM
1606652-013F	203-SB05-05	6/16/2016 11:45 AM	Soil				
				SW_6020S-Metals, ICP/MS		7/14/2016 11:10 AM	7/15/2016 3:44 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 12:37 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 2:00 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	7/29/2016 2:01 PM
				SW_6010S-Metals, ICP/OES		7/14/2016 9:15 AM	8/1/2016 4:40 PM
1606652-013G	203-SB05-05	6/16/2016 11:45 AM	Soil				
				PMOIST-Percent Moisture		6/24/2016 2:00 PM	6/24/2016 2:00 PM
1606652-014A	203-SB05-21	6/16/2016 12:00 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/29/2016 11:00 PM	6/29/2016 11:00 PM
1606652-014C	203-SB05-21	6/16/2016 12:00 PM	Soil				
				SW_8260S-Volatile Organic Compounds		6/30/2016 7:12 AM	6/30/2016 7:12 AM
1606652-014D	203-SB05-21	6/16/2016 12:00 PM	Soil				
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 4:38 AM
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	7/26/2016 2:45 PM

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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606652-014D	203-SB05-21	6/16/2016 12:00 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:12 AM	8/4/2016 7:24 PM
1606652-014E	203-SB05-21	6/16/2016 12:00 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:17 AM	7/22/2016 3:03 PM
1606652-014F	203-SB05-21	6/16/2016 12:00 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/25/2016 1:07 PM	7/26/2016 1:12 PM
				SW_6010S-Metals, ICP/OES		7/19/2016 12:52 PM	8/4/2016 11:56 AM
				SW_6010S-Metals, ICP/OES		7/19/2016 12:52 PM	8/4/2016 1:04 PM
				SW_6010S-Metals, ICP/OES		7/19/2016 12:52 PM	8/4/2016 1:32 PM
1606652-014G	203-SB05-21	6/16/2016 12:00 PM	Soil				
				PMOIST-Percent Moisture		6/24/2016 2:00 PM	6/24/2016 2:00 PM
1606652-015A	H17-SB01-05	6/16/2016 3:10 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/29/2016 11:53 PM	6/29/2016 11:53 PM
1606652-015D	H17-SB01-05	6/16/2016 3:10 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/27/2016 8:47 AM	7/23/2016 2:02 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 5:53 AM
1606652-015E	H17-SB01-05	6/16/2016 3:10 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/28/2016 4:51 AM
1606652-015F	H17-SB01-05	6/16/2016 3:10 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/27/2016 11:48 AM	7/27/2016 5:40 PM
				SW_6020S-Metals, ICP/MS		7/27/2016 11:48 AM	8/9/2016 11:47 AM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 2:47 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 3:54 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/21/2016 4:05 PM
				SW_6010S-Metals, ICP/OES		7/15/2016 12:10 PM	7/25/2016 3:33 PM
1606652-015G	H17-SB01-05	6/16/2016 3:10 PM	Soil				
				PMOIST-Percent Moisture		6/24/2016 2:00 PM	6/24/2016 2:00 PM
1606652-016A	H17-SB02-05	6/16/2016 2:40 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/30/2016 1:38 AM	6/30/2016 1:38 AM
1606652-016D	H17-SB02-05	6/16/2016 2:40 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/27/2016 8:47 AM	7/23/2016 3:19 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 10:28 AM

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Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606652-016E	H17-SB02-05	6/16/2016 2:40 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/28/2016 9:20 AM
1606652-016F	H17-SB02-05	6/16/2016 2:40 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:20 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:48 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 3:09 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:21 PM
1606652-016G	H17-SB02-05	6/16/2016 2:40 PM	Soil				
				PMOIST-Percent Moisture		6/24/2016 2:00 PM	6/24/2016 2:00 PM
1606652-017A	H17-SB03-05	6/16/2016 2:45 PM	Soil				
				SW_8260S-LL-Volatile Organic Compounds		6/30/2016 1:12 AM	6/30/2016 1:12 AM
1606652-017D	H17-SB03-05	6/16/2016 2:45 PM	Soil				
				SW_8270S-SIM-Semi-Volatile Organic Compounds		6/27/2016 8:47 AM	7/23/2016 3:45 PM
				SW_8270S-LL-Semi-Volatile Organic Compounds		6/27/2016 8:49 AM	7/1/2016 10:53 AM
1606652-017E	H17-SB03-05	6/16/2016 2:45 PM	Soil				
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/28/2016 9:44 AM
1606652-017F	H17-SB03-05	6/16/2016 2:45 PM	Soil				
				SW_6020S-Metals, ICP/MS		7/12/2016 12:23 PM	7/15/2016 2:21 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 1:50 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 3:10 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	7/28/2016 3:12 PM
				SW_6010S-Metals, ICP/OES		7/12/2016 11:14 AM	8/2/2016 1:23 PM
1606652-017G	H17-SB03-05	6/16/2016 2:45 PM	Soil				
				PMOIST-Percent Moisture		6/24/2016 2:00 PM	6/24/2016 2:00 PM

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WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40257

Sample ID:	1606652-015EMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87007
Client ID:	H17-SB01-05MS1	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/28/2016	SeqNo:	1688081

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.036	0.18	0	69.6	46	129				
Aroclor 1260	0.14	0.036	0.18	0	74.8	45	134				
Surr: Tetrachloro-m-xylene	5.4		9.131		58.8	44	130				
Surr: Decachlorobiphenyl	6.7		9.131		73.6	40	135				

Sample ID:	1606652-015EMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87007
Client ID:	H17-SB01-05SD1	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/28/2016	SeqNo:	1688082

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.036	0.18	0	69.2	46	129	0.13	0.947	25	
Aroclor 1260	0.13	0.036	0.18	0	73.5	45	134	0.14	2.02	25	
Surr: Tetrachloro-m-xylene	5.2		9.104		56.7	44	130		0	25	
Surr: Decachlorobiphenyl	6.4		9.104		70.7	40	135		0	25	

Sample ID:	LCS-40257	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87007
Client ID:	LCSS	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/27/2016	SeqNo:	1688118

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.033	0.17	0	87.0	46	129				
Aroclor 1260	0.16	0.033	0.17	0	93.8	45	134				
Surr: Tetrachloro-m-xylene	6.8		8.275		81.6	44	130				
Surr: Decachlorobiphenyl	7.9		8.275		95.1	40	135				

Sample ID:	MB-40257	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87007
Client ID:	PBS	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/27/2016	SeqNo:	1688119

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

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Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40257

Sample ID:	MB-40257	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87007
Client ID:	PBS	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/27/2016	SeqNo:	1688119

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	6.8		8.292		82.0	44	130				
Surr: Decachlorobiphenyl	7.7		8.292		93.0	60	125				

Sample ID:	1606652-015EMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87008
Client ID:	H17-SB01-05MS1	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/28/2016	SeqNo:	1688141

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.036	0.18	0	76.6	46	129				
Aroclor 1260	0.15	0.036	0.18	0	84.1	45	134				G
Surr: Tetrachloro-m-xylene	5.9		9.131		64.5	44	130				
Surr: Decachlorobiphenyl	7.6		9.131		83.3	40	135				

Sample ID:	1606652-015EMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87008
Client ID:	H17-SB01-05SD1	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/28/2016	SeqNo:	1688142

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.036	0.18	0	75.2	46	129	0.13	7.45	25	
Aroclor 1260	0.15	0.036	0.18	0	81.5	45	134	0.14	8.32	25	G
Surr: Tetrachloro-m-xylene	5.7		9.104		63.0	44	130		0	25	
Surr: Decachlorobiphenyl	7.3		9.104		79.8	40	135		0	25	

Sample ID:	LCS-40257	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87008
Client ID:	LCSS	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/27/2016	SeqNo:	1688178

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.17	0.033	0.17	0	100	46	129				
Aroclor 1260	0.18	0.033	0.17	0	112	45	134				G
Surr: Tetrachloro-m-xylene	7.3		8.275		88.1	44	130				

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Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40257**

Sample ID:	**LCS-40257**	Samp Type:	**LCS**	Test Code:	**SW_8082S**	Units:	**mg/Kg**	Prep Date:	**6/26/2016**	RunNo:	**87008**
Client ID:	**LCSS**	Batch ID:	**40257**	TestNo:	**SW8082**	**SW3546**		Analysis Date:	**6/27/2016**	SeqNo:	**1688178**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	9.1		8.275		110	40	135				

Sample ID:	**MB-40257**	Samp Type:	**MBLK**	Test Code:	**SW_8082S**	Units:	**mg/Kg**	Prep Date:	**6/26/2016**	RunNo:	**87008**
Client ID:	**PBS**	Batch ID:	**40257**	TestNo:	**SW8082**	**SW3546**		Analysis Date:	**6/27/2016**	SeqNo:	**1688179**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									UG
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.4		8.292		89.2	44	130				
Surr: Decachlorobiphenyl	8.9		8.292		108	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40265**

Sample ID:	1606652-015DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87668
Client ID:	H17-SB01-05MS1	Batch ID:	40265	TestNo:	SW8270C	SW3550C		Analysis Date:	7/23/2016	SeqNo:	1703084

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.024	0.00075	0.015	0.0040	133	43	111				QY
2-Methylnaphthalene	0.017	0.00075	0.015	0.0017	103	39	114				
Acenaphthene	0.015	0.00075	0.015	0	100	44	111				
Acenaphthylene	0.015	0.00075	0.015	0	103	39	116				
Anthracene	0.015	0.00075	0.015	0	104	50	114				
Benzo(a)anthracene	0.017	0.00075	0.015	0	111	54	122				
Benzo(a)pyrene	0.017	0.00075	0.015	0	112	50	125				
Benzo(b)fluoranthene	0.015	0.00075	0.015	0.0011	96.4	53	128				
Benzo(g,h,i)perylene	0.012	0.00075	0.015	0	78.7	49	127				
Benzo(k)fluoranthene	0.016	0.00075	0.015	0	110	56	123				
Chrysene	0.015	0.00075	0.015	0	103	57	118				
Dibenzo(a,h)anthracene	0.013	0.00075	0.015	0	87.6	50	129				
Fluoranthene	0.017	0.00075	0.015	0.0014	104	55	119				
Fluorene	0.015	0.00075	0.015	0	102	47	114				
Indeno(1,2,3-cd)pyrene	0.013	0.00075	0.015	0	88.2	49	130				
Naphthalene	0.015	0.00075	0.015	0.0010	92.9	38	111				
Phenanthrene	0.015	0.00075	0.015	0.00084	95.8	49	113				
Pyrene	0.015	0.00075	0.015	0.0011	92.6	55	117				
Surr: 2-Fluorobiphenyl	21		18.62		113	46	115				
Surr: Nitrobenzene-d5	23		18.62		123	44	125				
Surr: Terphenyl-d14	22		18.62		119	58	133				

Sample ID:	1606652-015DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87668
Client ID:	H17-SB01-05SD1	Batch ID:	40265	TestNo:	SW8270C	SW3550C		Analysis Date:	7/23/2016	SeqNo:	1703085

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.023	0.00074	0.015	0.0040	130	43	111	0.024	2.03	25	QY
2-Methylnaphthalene	0.016	0.00074	0.015	0.0017	99.8	39	114	0.017	2.89	25	
Acenaphthene	0.015	0.00074	0.015	0	102	44	111	0.015	1.28	25	
Acenaphthylene	0.016	0.00074	0.015	0	106	39	116	0.015	2.93	25	
Anthracene	0.016	0.00074	0.015	0	105	50	114	0.015	0.545	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40265

Sample ID:	1606652-015DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87668
Client ID:	H17-SB01-05SD1	Batch ID:	40265	TestNo:	SW8270C	SW3550C		Analysis Date:	7/23/2016	SeqNo:	1703085

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.017	0.00074	0.015	0	115	54	122	0.017	2.96	25	
Benzo(a)pyrene	0.017	0.00074	0.015	0	116	50	125	0.017	3.54	25	
Benzo(b)fluoranthene	0.016	0.00074	0.015	0.0011	103	53	128	0.015	5.59	25	
Benzo(g,h,i)perylene	0.013	0.00074	0.015	0	85.8	49	127	0.012	8.23	25	
Benzo(k)fluoranthene	0.016	0.00074	0.015	0	111	56	123	0.016	0.391	25	
Chrysene	0.015	0.00074	0.015	0	104	57	118	0.015	0.648	25	
Dibenzo(a,h)anthracene	0.014	0.00074	0.015	0	95.2	50	129	0.013	7.76	25	
Fluoranthene	0.017	0.00074	0.015	0.0014	103	55	119	0.017	0.571	25	
Fluorene	0.015	0.00074	0.015	0	103	47	114	0.015	0.574	25	
Indeno(1,2,3-cd)pyrene	0.014	0.00074	0.015	0	95.5	49	130	0.013	7.53	25	
Naphthalene	0.015	0.00074	0.015	0.0010	93.2	38	111	0.015	0.207	25	
Phenanthrene	0.015	0.00074	0.015	0.00084	97.6	49	113	0.015	1.24	25	
Pyrene	0.016	0.00074	0.015	0.0011	100	55	117	0.015	6.99	25	
Surr: 2-Fluorobiphenyl	23		18.53		125	46	115		0	25	Q
Surr: Nitrobenzene-d5	24		18.53		128	44	125		0	25	Q
Surr: Terphenyl-d14	24		18.53		131	58	133		0	25	

Sample ID:	MB-40265	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/27/2016	RunNo:	88159
Client ID:	PBS	Batch ID:	40265	TestNo:	SW8270C	SW3550C		Analysis Date:	7/23/2016	SeqNo:	1714234

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00066	0.00066									U
2-Methylnaphthalene	0.00066	0.00066									U
Acenaphthene	0.00066	0.00066									U
Acenaphthylene	0.00066	0.00066									U
Anthracene	0.00066	0.00066									U
Benzo(a)anthracene	0.00066	0.00066									U
Benzo(a)pyrene	0.00066	0.00066									U
Benzo(b)fluoranthene	0.00066	0.00066									U
Benzo(g,h,i)perylene	0.00066	0.00066									U
Benzo(k)fluoranthene	0.00066	0.00066									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40265**

Sample ID:	MB-40265	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/27/2016	RunNo:	88159
Client ID:	PBS	Batch ID:	40265	TestNo:	SW8270C	SW3550C		Analysis Date:	7/23/2016	SeqNo:	1714234

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.00066	0.00066									U
Dibenzo(a,h)anthracene	0.00066	0.00066									U
Fluoranthene	0.00066	0.00066									U
Fluorene	0.00066	0.00066									U
Indeno(1,2,3-cd)pyrene	0.00066	0.00066									U
Naphthalene	0.00066	0.00066									U
Phenanthrene	0.00066	0.00066									U
Pyrene	0.00066	0.00066									U
Surr: 2-Fluorobiphenyl	16		16.38		100	46	115				
Surr: Nitrobenzene-d5	16		16.38		100	44	125				
Surr: Terphenyl-d14	17		16.38		105	58	133				

Sample ID:	LCS-40265	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/27/2016	RunNo:	88159
Client ID:	LCSS	Batch ID:	40265	TestNo:	SW8270C	SW3550C		Analysis Date:	7/23/2016	SeqNo:	1714235

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.00067	0.013	0	99.7	43	111				
2-Methylnaphthalene	0.012	0.00067	0.013	0	91.1	39	114				
Acenaphthene	0.013	0.00067	0.013	0	96.0	44	111				
Acenaphthylene	0.013	0.00067	0.013	0	95.9	39	116				
Anthracene	0.013	0.00067	0.013	0	95.2	50	114				
Benzo(a)anthracene	0.013	0.00067	0.013	0	97.6	54	122				
Benzo(a)pyrene	0.012	0.00067	0.013	0	91.3	50	125				
Benzo(b)fluoranthene	0.014	0.00067	0.013	0	103	53	128				
Benzo(g,h,i)perylene	0.012	0.00067	0.013	0	92.1	49	127				
Benzo(k)fluoranthene	0.013	0.00067	0.013	0	97.2	56	123				
Chrysene	0.013	0.00067	0.013	0	94.7	57	118				
Dibenzo(a,h)anthracene	0.012	0.00067	0.013	0	92.4	50	129				
Fluoranthene	0.013	0.00067	0.013	0	96.7	55	119				
Fluorene	0.012	0.00067	0.013	0	93.9	47	114				
Indeno(1,2,3-cd)pyrene	0.012	0.00067	0.013	0	92.1	49	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40265**

Sample ID:	**LCS-40265**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/27/2016**	RunNo:	**88159**	
Client ID:	**LCSS**	Batch ID:	**40265**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/23/2016**	SeqNo:	**1714235**	

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.012	0.00067	0.013	0	88.8	38	111				
Phenanthrene	0.012	0.00067	0.013	0	91.7	49	113				
Pyrene	0.013	0.00067	0.013	0	97.1	55	117				
Surr: 2-Fluorobiphenyl	18		16.64		109	46	115				
Surr: Nitrobenzene-d5	20		16.64		119	44	125				
Surr: Terphenyl-d14	19		16.64		115	58	133				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40266

Sample ID:	MB-40266	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	PBS	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1705597

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.16	0.16									U
1,2-Dichlorobenzene	0.16	0.16									U
1,3-Dichlorobenzene	0.16	0.16									U
1,4-Dichlorobenzene	0.16	0.16									U
2,4,5-Trichlorophenol	0.16	0.16									U
2,4,6-Trichlorophenol	0.16	0.16									U
2,4-Dichlorophenol	0.16	0.16									U
2,4-Dimethyl phenol	0.16	0.16									U
2,4-Dinitrophenol	0.81	0.81									U
2,4-Dinitrotoluene	0.16	0.16									U
2,6-Dinitrotoluene	0.16	0.16									U
2-Chloronaphthalene	0.16	0.16									U
2-Chlorophenol	0.16	0.16									U
2-Methylphenol (o-Cresol)	0.16	0.16									U
2-Nitroaniline	0.31	0.31									U
2-Nitrophenol	0.16	0.16									U
3,3´-Dichlorobenzidine	0.98	0.98									U
3-Nitroaniline	0.31	0.31									U
3/4-Methylphenol [m/p-Cresol]	0.31	0.31									U
4,6-Dinitro-2-methylphenol	0.31	0.31									U
4-Bromophenyl phenyl ether	0.20	0.20									U
4-Chloro-3-methylphenol	0.16	0.16									U
4-Chloroaniline [p-Chloroaniline]	0.16	0.16									U
4-Chlorophenyl phenyl ether	0.16	0.16									U
4-Nitroaniline	0.31	0.31									U
4-Nitrophenol	0.81	0.81									U
Benzoic acid	0.98	0.98									UYZ
Benzyl alcohol	0.64	0.64									U
Bis(2-chloroethoxy) methane	0.16	0.16									U
Bis(2-chloroethyl) ether	0.16	0.16									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	MB-40266	Samp Type:	MBLK	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	PBS	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1705597

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	0.16	0.16									UZ
Bis(2-ethylhexyl) phthalate	0.16	0.16									U
Butyl benzyl phthalate	0.16	0.16									U
Carbazole	0.16	0.16									U
Di-n-butyl phthalate	0.16	0.16									U
Di-n-octyl phthalate	0.16	0.16									U
Dibenzofuran	0.16	0.16									U
Diethyl phthalate	0.16	0.16									U
Dimethyl phthalate	0.16	0.16									U
Hexachlorobenzene	0.16	0.16									U
Hexachlorobutadiene	0.049	0.049									UY
Hexachloroethane	0.16	0.16									U
Isophorone	0.16	0.16									U
N-Nitroso-di-n-propylamine	0.16	0.16									U
N-Nitrosodimethylamine	0.16	0.16									UY
N-Nitrosodiphenylamine	0.16	0.16									U
Nitrobenzene	0.16	0.16									U
Pentachlorophenol	0.16	0.16									UY
Phenol	0.16	0.16									U
Surr: 2,4,6-Tribromophenol	720		813.3		87.9	39	132				
Surr: 2-Fluorobiphenyl	680		813.3		84.2	44	115				
Surr: 2-Fluorophenol	560		813.3		69.2	35	115				
Surr: Nitrobenzene-d5	580		813.3		71.7	37	122				
Surr: Phenol-d5	660		813.3		80.7	33	122				
Surr: Terphenyl-d14	980		813.3		121	54	127				

Sample ID:	LCS-40266	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	LCSS	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711466

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	0.39	0.16	0.65	0	60.5	34	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	**LCS-40266**	Samp Type:	**LCS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg**	Prep Date:	**6/27/2016**	RunNo:	**87769**
Client ID:	**LCSS**	Batch ID:	**40266**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/1/2016**	SeqNo:	**1711466**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	0.36	0.16	0.65	0	55.7	33	117				
1,3-Dichlorobenzene	0.37	0.16	0.65	0	56.2	30	115				
1,4-Dichlorobenzene	0.35	0.16	0.65	0	54.6	31	115				
2,4,5-Trichlorophenol	0.32	0.16	0.65	0	48.5	41	124				
2,4,6-Trichlorophenol	0.35	0.16	0.65	0	54.0	39	126				
2,4-Dichlorophenol	0.40	0.16	0.65	0	62.1	40	122				
2,4-Dimethyl phenol	0.36	0.16	0.65	0	55.3	30	127				
2,4-Dinitrophenol	0.27	0.81	1.6	0	16.4	50	130				JQ
2,4-Dinitrotoluene	0.42	0.16	0.65	0	65.1	48	126				
2,6-Dinitrotoluene	0.39	0.16	0.65	0	60.8	46	124				
2-Chloronaphthalene	0.34	0.16	0.65	0	51.7	41	114				
2-Chlorophenol	0.38	0.16	0.65	0	58.2	34	121				
2-Methylphenol (o-Cresol)	0.36	0.16	0.65	0	55.2	32	122				
2-Nitroaniline	0.37	0.31	0.65	0	57.7	44	127				
2-Nitrophenol	0.41	0.16	0.65	0	63.1	36	123				
3,3´-Dichlorobenzidine	0.97	0.97	0.65	0	0	22	121				QU
3-Nitroaniline	0.40	0.31	0.65	0	62.1	33	119				
3/4-Methylphenol [m/p-Cresol]	0.66	0.31	1.3	0	51.1	34	119				
4,6-Dinitro-2-methylphenol	0.31	0.31	0.65	0	47.3	29	132				J
4-Bromophenyl phenyl ether	0.37	0.19	0.65	0	57.7	46	124				
4-Chloro-3-methylphenol	0.42	0.16	0.65	0	64.0	45	122				
4-Chloroaniline [p-Chloroaniline]	0.34	0.16	0.65	0	51.9	17	106				
4-Chlorophenyl phenyl ether	0.42	0.16	0.65	0	64.2	45	121				
4-Nitroaniline	0.33	0.31	0.65	0	50.2	50	130				
4-Nitrophenol	0.51	0.81	1.6	0	31.2	30	132				J
Benzoic acid	0.16	0.97	1.3	0	12.2	40	117				JQYZ
Benzyl alcohol	0.31	0.64	0.65	0	48.1	29	122				J
Bis(2-chloroethoxy) methane	0.32	0.16	0.65	0	50.0	36	121				
Bis(2-chloroethyl) ether	0.33	0.16	0.65	0	50.6	31	120				
Bis(2-chloroisopropyl)ether	0.36	0.16	0.65	0	55.0	33	131				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	LCS-40266	Samp Type:	LCS	Test Code:	SW_8270S-LL	Units:	mg/Kg	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	LCSS	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711466

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	0.39	0.16	0.65	0	59.6	51	133				
Butyl benzyl phthalate	0.37	0.16	0.65	0	57.3	48	132				
Carbazole	0.36	0.16	0.65	0	55.7	50	123				
Di-n-butyl phthalate	0.36	0.16	0.65	0	55.3	51	128				
Di-n-octyl phthalate	0.37	0.16	0.65	0	56.7	45	140				
Dibenzofuran	0.38	0.16	0.65	0	59.1	44	120				
Diethyl phthalate	0.40	0.16	0.65	0	61.4	50	124				
Dimethyl phthalate	0.38	0.16	0.65	0	58.7	48	124				
Hexachlorobenzene	0.37	0.16	0.65	0	56.8	45	122				
Hexachlorobutadiene	0.43	0.049	0.65	0	66.0	32	123				Y
Hexachloroethane	0.37	0.16	0.65	0	57.0	28	117				
Isophorone	0.33	0.16	0.65	0	51.3	30	122				
N-Nitroso-di-n-propylamine	0.35	0.16	0.65	0	54.1	50	130				
N-Nitrosodimethylamine	0.28	0.16	0.65	0	43.1	23	120				Y
N-Nitrosodiphenylamine	0.34	0.16	0.65	0	52.4	38	127				
Nitrobenzene	0.37	0.16	0.65	0	56.4	34	122				
Pentachlorophenol	0.093	0.16	0.65	0	14.4	25	133				JQY
Phenol	0.35	0.16	0.65	0	53.2	34	121				
Surr: 2,4,6-Tribromophenol	530		811.2		65.7	39	132				
Surr: 2-Fluorobiphenyl	540		811.2		66.8	44	115				
Surr: 2-Fluorophenol	480		811.2		58.9	35	115				
Surr: Nitrobenzene-d5	550		811.2		67.6	37	122				
Surr: Phenol-d5	510		811.2		62.4	33	122				
Surr: Terphenyl-d14	570		811.2		70.3	54	127				

Sample ID:	1606652-005DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	201-SB01-25MS1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711467

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.6	0.49	0.68	0	229	34	118				Q
1,2-Dichlorobenzene	1.5	0.49	0.68	0	214	33	117				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	**1606652-005DMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/27/2016**	RunNo:	**87769**
Client ID:	**201-SB01-25MS1**	Batch ID:	**40266**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/1/2016**	SeqNo:	**1711467**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	1.4	0.49	0.68	0	205	30	115				Q
1,4-Dichlorobenzene	1.4	0.49	0.68	0	206	31	115				Q
2,4,5-Trichlorophenol	1.6	0.49	0.68	0	241	41	124				Q
2,4,6-Trichlorophenol	1.7	0.49	0.68	0	250	39	126				Q
2,4-Dichlorophenol	1.7	0.49	0.68	0	250	40	122				Q
2,4-Dimethyl phenol	0.70	0.49	0.68	0	102	30	127				
2,4-Dinitrophenol	2.0	2.5	1.7	0	120	50	130				J
2,4-Dinitrotoluene	1.8	0.49	0.68	0	258	48	126				Q
2,6-Dinitrotoluene	1.6	0.49	0.68	0	228	46	124				Q
2-Chloronaphthalene	1.4	0.49	0.68	0	200	41	114				Q
2-Chlorophenol	1.4	0.49	0.68	0	211	34	121				Q
2-Methylphenol (o-Cresol)	1.2	0.49	0.68	0	180	32	122				Q
2-Nitroaniline	1.5	0.98	0.68	0	225	44	127				Q
2-Nitrophenol	1.6	0.49	0.68	0	234	36	123				Q
3,3´-Dichlorobenzidine	3.1	3.1	0.68	0	0	22	121				QU
3-Nitroaniline	1.5	0.98	0.68	0	224	33	119				Q
3/4-Methylphenol [m/p-Cresol]	2.4	0.98	1.4	0	174	42	126				Q
4,6-Dinitro-2-methylphenol	1.2	0.98	0.68	0	183	29	132				Q
4-Bromophenyl phenyl ether	1.5	0.61	0.68	0	216	46	124				Q
4-Chloro-3-methylphenol	1.6	0.49	0.68	0	242	45	122				Q
4-Chloroaniline [p-Chloroaniline]	0.98	0.49	0.68	0	144	17	106				Q
4-Chlorophenyl phenyl ether	1.7	0.49	0.68	0	247	45	121				Q
4-Nitroaniline	1.3	0.98	0.68	0	195	50	130				Q
4-Nitrophenol	3.6	2.5	1.7	0	208	30	132				Q
Benzoic acid	2.8	3.1	1.4	0	205	40	117				JQYZ
Benzyl alcohol	1.4	2.0	0.68	0	207	29	122				JQ
Bis(2-chloroethoxy) methane	1.3	0.49	0.68	0	192	36	121				Q
Bis(2-chloroethyl) ether	1.3	0.49	0.68	0	197	31	120				Q
Bis(2-chloroisopropyl)ether	1.4	0.49	0.68	0	203	33	131				QZ
Bis(2-ethylhexyl) phthalate	1.7	0.49	0.68	0	244	51	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	1606652-005DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	201-SB01-25MS1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711467

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	1.6	0.49	0.68	0	235	48	132				Q
Carbazole	1.5	0.49	0.68	0	216	50	123				Q
Di-n-butyl phthalate	1.5	0.49	0.68	0	216	51	128				Q
Di-n-octyl phthalate	1.6	0.49	0.68	0	234	45	140				Q
Dibenzofuran	1.5	0.49	0.68	0	222	44	120				Q
Diethyl phthalate	1.6	0.49	0.68	0	236	50	124				Q
Dimethyl phthalate	1.5	0.49	0.68	0	225	48	124				Q
Hexachlorobenzene	1.5	0.49	0.68	0	214	45	122				Q
Hexachlorobutadiene	1.7	0.15	0.68	0	252	32	123				QY
Hexachloroethane	1.4	0.49	0.68	0	208	28	117				Q
Isophorone	1.3	0.49	0.68	0	198	30	122				Q
N-Nitroso-di-n-propylamine	1.4	0.49	0.68	0	204	50	130				Q
N-Nitrosodimethylamine	1.1	0.49	0.68	0	159	23	120				QY
N-Nitrosodiphenylamine	1.3	0.49	0.68	0	187	38	127				Q
Nitrobenzene	1.5	0.49	0.68	0	214	34	122				Q
Pentachlorophenol	1.6	0.49	0.68	0	234	25	133				QY
Phenol	1.4	0.49	0.68	0	199	34	121				Q
Surr: 2,4,6-Tribromophenol	2,200		851.5		253	39	132				Q
Surr: 2-Fluorobiphenyl	1,900		851.5		228	44	115				Q
Surr: 2-Fluorophenol	1,700		851.5		195	35	115				Q
Surr: Nitrobenzene-d5	2,000		851.5		230	37	122				Q
Surr: Phenol-d5	1,800		851.5		209	33	122				Q
Surr: Terphenyl-d14	2,100		851.5		243	54	127				Q

Sample ID:	1606652-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	201-SB01-25SD1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711468

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.5	0.49	0.69	0	213	34	118	1.6	6.74	25	Q
1,2-Dichlorobenzene	1.4	0.49	0.69	0	198	33	117	1.5	7.18	25	Q
1,3-Dichlorobenzene	1.3	0.49	0.69	0	196	30	115	1.4	4.04	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40266

Sample ID:	1606652-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	201-SB01-25SD1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711468

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	1.3	0.49	0.69	0	192	31	115	1.4	6.41	25	Q
2,4,5-Trichlorophenol	1.5	0.49	0.69	0	220	41	124	1.6	8.31	25	Q
2,4,6-Trichlorophenol	1.6	0.49	0.69	0	234	39	126	1.7	6.11	25	Q
2,4-Dichlorophenol	1.6	0.49	0.69	0	236	40	122	1.7	5.09	25	Q
2,4-Dimethyl phenol	0.69	0.49	0.69	0	101	30	127	0.70	1.18	25	
2,4-Dinitrophenol	1.4	2.6	1.7	0	84.3	50	130	2.0	34.7	25	JR
2,4-Dinitrotoluene	1.6	0.49	0.69	0	226	48	126	1.8	12.4	25	Q
2,6-Dinitrotoluene	1.5	0.49	0.69	0	213	46	124	1.6	6.35	25	Q
2-Chloronaphthalene	1.3	0.49	0.69	0	185	41	114	1.4	7.36	25	Q
2-Chlorophenol	1.4	0.49	0.69	0	205	34	121	1.4	2.51	25	Q
2-Methylphenol (o-Cresol)	1.2	0.49	0.69	0	172	32	122	1.2	3.83	25	Q
2-Nitroaniline	1.4	0.99	0.69	0	206	44	127	1.5	8.04	25	Q
2-Nitrophenol	1.6	0.49	0.69	0	230	36	123	1.6	0.896	25	Q
3,3´-Dichlorobenzidine	3.1	3.1	0.69	0	0	22	121	0	0	25	QU
3-Nitroaniline	1.5	0.99	0.69	0	220	33	119	1.5	1.44	25	Q
3/4-Methylphenol [m/p-Cresol]	2.2	0.99	1.4	0	162	42	126	2.4	6.86	25	Q
4,6-Dinitro-2-methylphenol	1.1	0.99	0.69	0	166	29	132	1.2	9.20	25	Q
4-Bromophenyl phenyl ether	1.4	0.62	0.69	0	204	46	124	1.5	4.99	25	Q
4-Chloro-3-methylphenol	1.6	0.49	0.69	0	228	45	122	1.6	5.34	25	Q
4-Chloroaniline [p-Chloroaniline]	0.99	0.49	0.69	0	145	17	106	0.98	1.22	25	Q
4-Chlorophenyl phenyl ether	1.5	0.49	0.69	0	224	45	121	1.7	9.14	25	Q
4-Nitroaniline	1.2	0.99	0.69	0	179	50	130	1.3	8.08	25	Q
4-Nitrophenol	3.3	2.6	1.7	0	192	30	132	3.6	7.40	25	Q
Benzoic acid	2.8	3.1	1.4	0	204	40	117	2.8	0.336	25	JQYZ
Benzyl alcohol	1.3	2.0	0.69	0	191	29	122	1.4	7.02	25	JQ
Bis(2-chloroethoxy) methane	1.2	0.49	0.69	0	177	36	121	1.3	7.46	25	Q
Bis(2-chloroethyl) ether	1.3	0.49	0.69	0	184	31	120	1.3	6.19	25	Q
Bis(2-chloroisopropyl)ether	1.3	0.49	0.69	0	193	33	131	1.4	4.34	25	QZ
Bis(2-ethylhexyl) phthalate	1.5	0.49	0.69	0	217	51	133	1.7	11.0	25	Q
Butyl benzyl phthalate	1.5	0.49	0.69	0	215	48	132	1.6	8.34	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	1606652-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	201-SB01-25SD1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711468

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	1.4	0.49	0.69	0	198	50	123	1.5	8.05	25	Q
Di-n-butyl phthalate	1.4	0.49	0.69	0	199	51	128	1.5	7.72	25	Q
Di-n-octyl phthalate	1.5	0.49	0.69	0	214	45	140	1.6	8.44	25	Q
Dibenzofuran	1.4	0.49	0.69	0	204	44	120	1.5	8.28	25	Q
Diethyl phthalate	1.5	0.49	0.69	0	212	50	124	1.6	9.92	25	Q
Dimethyl phthalate	1.4	0.49	0.69	0	204	48	124	1.5	8.93	25	Q
Hexachlorobenzene	1.3	0.49	0.69	0	194	45	122	1.5	9.19	25	Q
Hexachlorobutadiene	1.6	0.15	0.69	0	237	32	123	1.7	5.18	25	QY
Hexachloroethane	1.3	0.49	0.69	0	187	28	117	1.4	9.88	25	Q
Isophorone	1.3	0.49	0.69	0	186	30	122	1.3	5.67	25	Q
N-Nitroso-di-n-propylamine	1.3	0.49	0.69	0	191	50	130	1.4	6.24	25	Q
N-Nitrosodimethylamine	1.0	0.49	0.69	0	150	23	120	1.1	5.15	25	QY
N-Nitrosodiphenylamine	1.2	0.49	0.69	0	173	38	127	1.3	7.16	25	Q
Nitrobenzene	1.4	0.49	0.69	0	199	34	122	1.5	6.46	25	Q
Pentachlorophenol	1.7	0.49	0.69	0	251	25	133	1.6	7.65	25	QY
Phenol	1.3	0.49	0.69	0	187	34	121	1.4	5.78	25	Q
Surr: 2,4,6-Tribromophenol	2,300		856.6		265	39	132		0	25	Q
Surr: 2-Fluorobiphenyl	2,000		856.6		233	44	115		0	25	Q
Surr: 2-Fluorophenol	1,800		856.6		211	35	115		0	25	Q
Surr: Nitrobenzene-d5	2,100		856.6		246	37	122		0	25	Q
Surr: Phenol-d5	1,900		856.6		217	33	122		0	25	Q
Surr: Terphenyl-d14	2,100		856.6		250	54	127		0	25	Q

Sample ID:	1606652-014DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	203-SB05-21MS1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711469

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2.0	0.63	0.87	0	227	34	118				Q
1,2-Dichlorobenzene	1.8	0.63	0.87	0	208	33	117				Q
1,3-Dichlorobenzene	1.8	0.63	0.87	0	205	30	115				Q
1,4-Dichlorobenzene	1.8	0.63	0.87	0	204	31	115				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40266

Sample ID:	1606652-014DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	203-SB05-21MS1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711469

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	1.8	0.63	0.87	0	203	41	124				Q
2,4,6-Trichlorophenol	3.0	0.63	0.87	0	347	39	126				Q
2,4-Dichlorophenol	2.9	0.63	0.87	0	327	40	122				Q
2,4-Dimethyl phenol	1.9	0.63	0.87	0	216	30	127				Q
2,4-Dinitrophenol	0.92	3.3	2.2	0	42.2	50	130				JQ
2,4-Dinitrotoluene	4.1	0.63	0.87	0	464	48	126				Q
2,6-Dinitrotoluene	1.1	0.63	0.87	0	120	46	124				
2-Chloronaphthalene	1.7	0.63	0.87	0	190	41	114				Q
2-Chlorophenol	1.9	0.63	0.87	0	212	34	121				Q
2-Methylphenol (o-Cresol)	1.8	0.63	0.87	0	206	32	122				Q
2-Nitroaniline	2.5	1.3	0.87	0	280	44	127				Q
2-Nitrophenol	2.7	0.63	0.87	0	311	36	123				Q
3,3´-Dichlorobenzidine	2.0	3.9	0.87	0	233	22	121				JQ
3-Nitroaniline	2.3	1.3	0.87	0	260	33	119				Q
3/4-Methylphenol [m/p-Cresol]	3.2	1.3	1.7	0	184	42	126				Q
4,6-Dinitro-2-methylphenol	0.77	1.3	0.87	0	87.9	29	132				J
4-Bromophenyl phenyl ether	2.0	0.79	0.87	0	231	46	124				Q
4-Chloro-3-methylphenol	3.9	0.63	0.87	0	443	45	122				Q
4-Chloroaniline [p-Chloroaniline]	1.5	0.63	0.87	0	175	17	106				Q
4-Chlorophenyl phenyl ether	2.4	0.63	0.87	0	278	45	121				Q
4-Nitroaniline	2.0	1.3	0.87	0	227	50	130				Q
4-Nitrophenol	3.6	3.3	2.2	0	166	30	132				Q
Benzoic acid	7.1	3.9	1.7	0	404	40	117				JQYZ
Benzyl alcohol	1.8	2.6	0.87	0	203	29	122				JQ
Bis(2-chloroethoxy) methane	1.8	0.63	0.87	0	207	36	121				Q
Bis(2-chloroethyl) ether	1.6	0.63	0.87	0	187	31	120				Q
Bis(2-chloroisopropyl)ether	1.6	0.63	0.87	0	188	33	131				QZ
Bis(2-ethylhexyl) phthalate	2.1	0.63	0.87	0	245	51	133				Q
Butyl benzyl phthalate	2.1	0.63	0.87	0	238	48	132				Q
Carbazole	2.1	0.63	0.87	0.18	224	50	123				Q

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40266

Sample ID: **1606652-014DMS** Samp Type: **MS** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/27/2016** RunNo: **87769**

Client ID: **203-SB05-21MS1** Batch ID: **40266** TestNo: **SW8270C** **SW3546** Analysis Date: **7/1/2016** SeqNo: **1711469**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	1.9	0.63	0.87	0	222	51	128				Q
Di-n-octyl phthalate	2.0	0.63	0.87	0	234	45	140				Q
Dibenzofuran	4.3	0.63	0.87	0	497	44	120				Q
Diethyl phthalate	2.6	0.63	0.87	0	303	50	124				Q
Dimethyl phthalate	2.0	0.63	0.87	0	227	48	124				Q
Hexachlorobenzene	2.0	0.63	0.87	0	225	45	122				Q
Hexachlorobutadiene	2.2	0.20	0.87	0	255	32	123				QY
Hexachloroethane	2.2	0.63	0.87	0	250	28	117				Q
Isophorone	1.7	0.63	0.87	0	191	30	122				Q
N-Nitroso-di-n-propylamine	2.1	0.63	0.87	0	238	50	130				Q
N-Nitrosodimethylamine	1.3	0.63	0.87	0	153	23	120				QY
N-Nitrosodiphenylamine	12	0.63	0.87	0	1,420	38	127				JQ
Nitrobenzene	1.8	0.63	0.87	0	207	34	122				Q
Pentachlorophenol	2.4	0.63	0.87	0	274	25	133				QY
Phenol	1.7	0.63	0.87	0	195	34	121				Q
Surr: 2,4,6-Tribromophenol	2,700		1,093		250	39	132				Q
Surr: 2-Fluorobiphenyl	2,200		1,093		205	44	115				Q
Surr: 2-Fluorophenol	2,200		1,093		197	35	115				Q
Surr: Nitrobenzene-d5	2,700		1,093		245	37	122				Q
Surr: Phenol-d5	2,200		1,093		202	33	122				Q
Surr: Terphenyl-d14	2,600		1,093		242	54	127				Q

Sample ID: **1606652-014DMSD** Samp Type: **MSD** Test Code: **SW_8270S-LL** Units: **mg/Kg-dry** Prep Date: **6/27/2016** RunNo: **87769**

Client ID: **203-SB05-21SD1** Batch ID: **40266** TestNo: **SW8270C** **SW3546** Analysis Date: **7/1/2016** SeqNo: **1711470**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.9	0.62	0.86	0	222	34	118	2.0	3.36	25	Q
1,2-Dichlorobenzene	1.8	0.62	0.86	0	205	33	117	1.8	2.88	25	Q
1,3-Dichlorobenzene	1.7	0.62	0.86	0	193	30	115	1.8	7.15	25	Q
1,4-Dichlorobenzene	1.7	0.62	0.86	0	198	31	115	1.8	4.04	25	Q
2,4,5-Trichlorophenol	1.7	0.62	0.86	0	192	41	124	1.8	6.97	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	**1606652-014DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/27/2016**	RunNo:	**87769**
Client ID:	**203-SB05-21SD1**	Batch ID:	**40266**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/1/2016**	SeqNo:	**1711470**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	3.0	0.62	0.86	0	354	39	126	3.0	0.574	25	Q
2,4-Dichlorophenol	2.9	0.62	0.86	0	341	40	122	2.9	2.96	25	Q
2,4-Dimethyl phenol	1.8	0.62	0.86	0	207	30	127	1.9	5.40	25	Q
2,4-Dinitrophenol	1.1	3.2	2.2	0	51.1	50	130	0.92	17.8	25	J
2,4-Dinitrotoluene	3.5	0.62	0.86	0	407	48	126	4.1	14.4	25	Q
2,6-Dinitrotoluene	1.0	0.62	0.86	0	117	46	124	1.1	4.26	25	
2-Chloronaphthalene	1.6	0.62	0.86	0	190	41	114	1.7	1.35	25	Q
2-Chlorophenol	1.8	0.62	0.86	0	210	34	121	1.9	2.42	25	Q
2-Methylphenol (o-Cresol)	1.7	0.62	0.86	0	201	32	122	1.8	3.93	25	Q
2-Nitroaniline	2.3	1.2	0.86	0	268	44	127	2.5	5.84	25	Q
2-Nitrophenol	2.9	0.62	0.86	0	331	36	123	2.7	4.90	25	Q
3,3´-Dichlorobenzidine	2.0	3.9	0.86	0	232	22	121	2.0	1.55	25	JQ
3-Nitroaniline	2.1	1.2	0.86	0	244	33	119	2.3	7.60	25	Q
3/4-Methylphenol [m/p-Cresol]	3.2	1.2	1.7	0	186	42	126	3.2	0.221	25	Q
4,6-Dinitro-2-methylphenol	0.76	1.2	0.86	0	88.6	29	132	0.77	0.504	25	J
4-Bromophenyl phenyl ether	1.9	0.78	0.86	0	218	46	124	2.0	6.83	25	Q
4-Chloro-3-methylphenol	4.3	0.62	0.86	0	494	45	122	3.9	9.44	25	Q
4-Chloroaniline [p-Chloroaniline]	1.2	0.62	0.86	0	144	17	106	1.5	20.9	25	Q
4-Chlorophenyl phenyl ether	2.0	0.62	0.86	0	232	45	121	2.4	19.3	25	Q
4-Nitroaniline	1.9	1.2	0.86	0	220	50	130	2.0	4.24	25	Q
4-Nitrophenol	4.7	3.2	2.2	0	219	30	132	3.6	26.2	25	RQ
Benzoic acid	7.1	3.9	1.7	0	413	40	117	7.1	0.666	25	JQYZ
Benzyl alcohol	1.7	2.6	0.86	0	200	29	122	1.8	2.91	25	JQ
Bis(2-chloroethoxy) methane	1.8	0.62	0.86	0	212	36	121	1.8	1.08	25	Q
Bis(2-chloroethyl) ether	1.6	0.62	0.86	0	184	31	120	1.6	3.13	25	Q
Bis(2-chloroisopropyl)ether	1.6	0.62	0.86	0	181	33	131	1.6	5.02	25	QZ
Bis(2-ethylhexyl) phthalate	2.0	0.62	0.86	0	237	51	133	2.1	4.71	25	Q
Butyl benzyl phthalate	2.0	0.62	0.86	0	230	48	132	2.1	4.69	25	Q
Carbazole	2.1	0.62	0.86	0.18	218	50	123	2.1	3.46	25	Q
Di-n-butyl phthalate	1.9	0.62	0.86	0	220	51	128	1.9	2.24	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	1606652-014DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	203-SB05-21SD1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711470

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	2.0	0.62	0.86	0	229	45	140	2.0	3.55	25	Q
Dibenzofuran	0.58	0.62	0.86	0	66.9	44	120	4.3	153	25	JR
Diethyl phthalate	1.8	0.62	0.86	0	206	50	124	2.6	39.4	25	RQ
Dimethyl phthalate	0.22	0.62	0.86	0	25.0	48	124	2.0	161	25	JRQ
Hexachlorobenzene	1.9	0.62	0.86	0	219	45	122	2.0	3.85	25	Q
Hexachlorobutadiene	2.1	0.19	0.86	0	246	32	123	2.2	5.19	25	QY
Hexachloroethane	2.5	0.62	0.86	0	286	28	117	2.2	11.8	25	Q
Isophorone	1.6	0.62	0.86	0	188	30	122	1.7	3.25	25	Q
N-Nitroso-di-n-propylamine	2.3	0.62	0.86	0	270	50	130	2.1	11.0	25	Q
N-Nitrosodimethylamine	1.3	0.62	0.86	0	149	23	120	1.3	3.73	25	QY
N-Nitrosodiphenylamine	11	0.62	0.86	0	1,290	38	127	12	11.0	25	JQ
Nitrobenzene	1.7	0.62	0.86	0	202	34	122	1.8	3.77	25	Q
Pentachlorophenol	1.0	0.62	0.86	0	119	25	133	2.4	80.2	25	RY
Phenol	1.7	0.62	0.86	0	193	34	121	1.7	2.05	25	Q
Surr: 2,4,6-Tribromophenol	2,700		1,078		248	39	132		0	25	Q
Surr: 2-Fluorobiphenyl	2,100		1,078		191	44	115		0	25	Q
Surr: 2-Fluorophenol	2,100		1,078		193	35	115		0	25	Q
Surr: Nitrobenzene-d5	2,700		1,078		252	37	122		0	25	Q
Surr: Phenol-d5	2,100		1,078		193	33	122		0	25	Q
Surr: Terphenyl-d14	2,500		1,078		233	54	127		0	25	Q

Sample ID:	1606652-015DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	H17-SB01-05MS1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711471

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.4	0.53	0.73	0	189	34	118				Q
1,2-Dichlorobenzene	1.3	0.53	0.73	0	176	33	117				Q
1,3-Dichlorobenzene	1.2	0.53	0.73	0	171	30	115				Q
1,4-Dichlorobenzene	1.2	0.53	0.73	0	170	31	115				Q
2,4,5-Trichlorophenol	1.5	0.53	0.73	0	200	41	124				Q
2,4,6-Trichlorophenol	1.5	0.53	0.73	0	210	39	126				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	**1606652-015DMS**	Samp Type:	**MS**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/27/2016**	RunNo:	**87769**
Client ID:	**H17-SB01-05MS1**	Batch ID:	**40266**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/1/2016**	SeqNo:	**1711471**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	1.6	0.53	0.73	0	213	40	122				Q
2,4-Dimethyl phenol	1.2	0.53	0.73	0	162	30	127				Q
2,4-Dinitrophenol	3.7	2.7	1.8	0	202	50	130				Q
2,4-Dinitrotoluene	1.5	0.53	0.73	0	202	48	126				Q
2,6-Dinitrotoluene	1.4	0.53	0.73	0	192	46	124				Q
2-Chloronaphthalene	1.2	0.53	0.73	0	162	41	114				Q
2-Chlorophenol	1.3	0.53	0.73	0	178	34	121				Q
2-Methylphenol (o-Cresol)	1.3	0.53	0.73	0	178	32	122				Q
2-Nitroaniline	1.4	1.1	0.73	0	190	44	127				Q
2-Nitrophenol	1.6	0.53	0.73	0	213	36	123				Q
3,3´-Dichlorobenzidine	3.3	3.3	0.73	0	0	22	121				QU
3-Nitroaniline	1.4	1.1	0.73	0	189	33	119				Q
3/4-Methylphenol [m/p-Cresol]	2.4	1.1	1.5	0	162	42	126				Q
4,6-Dinitro-2-methylphenol	1.7	1.1	0.73	0	232	29	132				Q
4-Bromophenyl phenyl ether	1.3	0.66	0.73	0	175	46	124				Q
4-Chloro-3-methylphenol	1.5	0.53	0.73	0	212	45	122				Q
4-Chloroaniline [p-Chloroaniline]	1.1	0.53	0.73	0	152	17	106				Q
4-Chlorophenyl phenyl ether	1.5	0.53	0.73	0	200	45	121				Q
4-Nitroaniline	1.2	1.1	0.73	0	161	50	130				Q
4-Nitrophenol	3.1	2.7	1.8	0	171	30	132				Q
Benzoic acid	5.3	3.3	1.5	0	360	40	117				QYZ
Benzyl alcohol	1.3	2.2	0.73	0	171	29	122				JQ
Bis(2-chloroethoxy) methane	1.1	0.53	0.73	0	157	36	121				Q
Bis(2-chloroethyl) ether	1.1	0.53	0.73	0	156	31	120				Q
Bis(2-chloroisopropyl)ether	1.1	0.53	0.73	0	157	33	131				QZ
Bis(2-ethylhexyl) phthalate	1.4	0.53	0.73	0	195	51	133				Q
Butyl benzyl phthalate	1.4	0.53	0.73	0	188	48	132				Q
Carbazole	1.3	0.53	0.73	0	181	50	123				Q
Di-n-butyl phthalate	1.3	0.53	0.73	0	178	51	128				Q
Di-n-octyl phthalate	1.4	0.53	0.73	0.020	193	45	140				Q

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40266

Sample ID:	1606652-015DMS	Samp Type:	MS	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	H17-SB01-05MS1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711471

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dibenzofuran	1.3	0.53	0.73	0	184	44	120				Q
Diethyl phthalate	1.4	0.53	0.73	0	194	50	124				Q
Dimethyl phthalate	1.4	0.53	0.73	0	187	48	124				Q
Hexachlorobenzene	1.3	0.53	0.73	0	173	45	122				Q
Hexachlorobutadiene	1.5	0.16	0.73	0	206	32	123				QY
Hexachloroethane	1.2	0.53	0.73	0	167	28	117				Q
Isophorone	1.2	0.53	0.73	0	163	30	122				Q
N-Nitroso-di-n-propylamine	1.2	0.53	0.73	0	168	50	130				Q
N-Nitrosodimethylamine	0.96	0.53	0.73	0	132	23	120				QY
N-Nitrosodiphenylamine	1.2	0.53	0.73	0	166	38	127				Q
Nitrobenzene	1.3	0.53	0.73	0	176	34	122				Q
Pentachlorophenol	1.4	0.53	0.73	0	194	25	133				QY
Phenol	1.2	0.53	0.73	0	165	34	121				Q
Surr: 2,4,6-Tribromophenol	2,000		912.2		215	39	132				Q
Surr: 2-Fluorobiphenyl	1,700		912.2		187	44	115				Q
Surr: 2-Fluorophenol	1,500		912.2		169	35	115				Q
Surr: Nitrobenzene-d5	1,700		912.2		186	37	122				Q
Surr: Phenol-d5	1,600		912.2		171	33	122				Q
Surr: Terphenyl-d14	1,800		912.2		198	54	127				Q

Sample ID:	1606652-015DMSD	Samp Type:	MSD	Test Code:	SW_8270S-LL	Units:	mg/Kg-dry	Prep Date:	6/27/2016	RunNo:	87769
Client ID:	H17-SB01-05SD1	Batch ID:	40266	TestNo:	SW8270C	SW3546		Analysis Date:	7/1/2016	SeqNo:	1711472

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.6	0.53	0.74	0	218	34	118	1.4	16.0	25	Q
1,2-Dichlorobenzene	1.5	0.53	0.74	0	203	33	117	1.3	16.1	25	Q
1,3-Dichlorobenzene	1.5	0.53	0.74	0	198	30	115	1.2	16.1	25	Q
1,4-Dichlorobenzene	1.5	0.53	0.74	0	199	31	115	1.2	17.3	25	Q
2,4,5-Trichlorophenol	1.7	0.53	0.74	0	230	41	124	1.5	15.8	25	Q
2,4,6-Trichlorophenol	1.7	0.53	0.74	0	233	39	126	1.5	12.1	25	Q
2,4-Dichlorophenol	1.8	0.53	0.74	0	244	40	122	1.6	15.1	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	**1606652-015DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/27/2016**	RunNo:	**87769**
Client ID:	**H17-SB01-05SD1**	Batch ID:	**40266**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/1/2016**	SeqNo:	**1711472**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dimethyl phenol	1.4	0.53	0.74	0	188	30	127	1.2	16.5	25	Q
2,4-Dinitrophenol	4.3	2.8	1.9	0	233	50	130	3.7	16.0	25	Q
2,4-Dinitrotoluene	1.8	0.53	0.74	0	243	48	126	1.5	20.2	25	Q
2,6-Dinitrotoluene	1.6	0.53	0.74	0	216	46	124	1.4	13.4	25	Q
2-Chloronaphthalene	1.4	0.53	0.74	0	185	41	114	1.2	14.8	25	Q
2-Chlorophenol	1.6	0.53	0.74	0	210	34	121	1.3	18.3	25	Q
2-Methylphenol (o-Cresol)	1.4	0.53	0.74	0	195	32	122	1.3	10.9	25	Q
2-Nitroaniline	1.6	1.1	0.74	0	215	44	127	1.4	14.2	25	Q
2-Nitrophenol	1.8	0.53	0.74	0	241	36	123	1.6	13.9	25	Q
3,3´-Dichlorobenzidine	3.3	3.3	0.74	0	0	22	121	0	0	25	QU
3-Nitroaniline	1.6	1.1	0.74	0	213	33	119	1.4	13.9	25	Q
3/4-Methylphenol [m/p-Cresol]	2.7	1.1	1.5	0	183	42	126	2.4	14.0	25	Q
4,6-Dinitro-2-methylphenol	2.0	1.1	0.74	0	268	29	132	1.7	15.9	25	Q
4-Bromophenyl phenyl ether	1.5	0.67	0.74	0	200	46	124	1.3	15.1	25	Q
4-Chloro-3-methylphenol	1.8	0.53	0.74	0	239	45	122	1.5	13.9	25	Q
4-Chloroaniline [p-Chloroaniline]	1.3	0.53	0.74	0	169	17	106	1.1	12.4	25	Q
4-Chlorophenyl phenyl ether	1.7	0.53	0.74	0	228	45	121	1.5	14.5	25	Q
4-Nitroaniline	1.4	1.1	0.74	0	192	50	130	1.2	19.5	25	Q
4-Nitrophenol	3.5	2.8	1.9	0	191	30	132	3.1	12.6	25	Q
Benzoic acid	5.1	3.3	1.5	0	346	40	117	5.3	2.48	25	QYZ
Benzyl alcohol	1.5	2.2	0.74	0	198	29	122	1.3	16.1	25	JQ
Bis(2-chloroethoxy) methane	1.3	0.53	0.74	0	180	36	121	1.1	15.2	25	Q
Bis(2-chloroethyl) ether	1.4	0.53	0.74	0	182	31	120	1.1	17.3	25	Q
Bis(2-chloroisopropyl)ether	1.3	0.53	0.74	0	182	33	131	1.1	15.9	25	QZ
Bis(2-ethylhexyl) phthalate	1.6	0.53	0.74	0	221	51	133	1.4	14.3	25	Q
Butyl benzyl phthalate	1.6	0.53	0.74	0	214	48	132	1.4	14.5	25	Q
Carbazole	1.5	0.53	0.74	0	202	50	123	1.3	12.4	25	Q
Di-n-butyl phthalate	1.5	0.53	0.74	0	201	51	128	1.3	14.1	25	Q
Di-n-octyl phthalate	1.6	0.53	0.74	0.020	214	45	140	1.4	12.2	25	Q
Dibenzofuran	1.5	0.53	0.74	0	206	44	120	1.3	13.0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40266**

Sample ID:	**1606652-015DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/27/2016**	RunNo:	**87769**
Client ID:	**H17-SB01-05SD1**	Batch ID:	**40266**	TestNo:	**SW8270C**	**SW3546**		Analysis Date:	**7/1/2016**	SeqNo:	**1711472**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Diethyl phthalate	1.6	0.53	0.74	0	211	50	124	1.4	10.2	25	Q
Dimethyl phthalate	1.5	0.53	0.74	0	207	48	124	1.4	11.6	25	Q
Hexachlorobenzene	1.5	0.53	0.74	0	201	45	122	1.3	16.9	25	Q
Hexachlorobutadiene	1.8	0.17	0.74	0	246	32	123	1.5	19.2	25	QY
Hexachloroethane	1.4	0.53	0.74	0	184	28	117	1.2	11.2	25	Q
Isophorone	1.3	0.53	0.74	0	181	30	122	1.2	12.3	25	Q
N-Nitroso-di-n-propylamine	1.4	0.53	0.74	0	188	50	130	1.2	12.8	25	Q
N-Nitrosodimethylamine	1.1	0.53	0.74	0	154	23	120	0.96	17.3	25	QY
N-Nitrosodiphenylamine	1.4	0.53	0.74	0	189	38	127	1.2	14.6	25	Q
Nitrobenzene	1.5	0.53	0.74	0	201	34	122	1.3	15.1	25	Q
Pentachlorophenol	1.6	0.53	0.74	0	210	25	133	1.4	9.72	25	QY
Phenol	1.4	0.53	0.74	0	191	34	121	1.2	16.3	25	Q
Surr: 2,4,6-Tribromophenol	2,300		927.3		247	39	132		0	25	Q
Surr: 2-Fluorobiphenyl	1,900		927.3		208	44	115		0	25	Q
Surr: 2-Fluorophenol	1,800		927.3		192	35	115		0	25	Q
Surr: Nitrobenzene-d5	2,000		927.3		216	37	122		0	25	Q
Surr: Phenol-d5	1,800		927.3		199	33	122		0	25	Q
Surr: Terphenyl-d14	2,100		927.3		224	54	127		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	**MB-40291**	Samp Type:	**MBLK**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87753**
Client ID:	**PBS**	Batch ID:	**40291**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/26/2016**	SeqNo:	**1705092**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.00067	0.00067									UY
2-Methylnaphthalene	0.00067	0.00067									U
Acenaphthene	0.00067	0.00067									U
Acenaphthylene	0.00067	0.00067									U
Anthracene	0.00067	0.00067									U
Benzo(a)anthracene	0.00067	0.00067									U
Benzo(a)pyrene	0.00067	0.00067									U
Benzo(b)fluoranthene	0.00067	0.00067									U
Benzo(g,h,i)perylene	0.00067	0.00067									U
Benzo(k)fluoranthene	0.00067	0.00067									U
Chrysene	0.00067	0.00067									U
Dibenzo(a,h)anthracene	0.00067	0.00067									U
Fluoranthene	0.00067	0.00067									U
Fluorene	0.00067	0.00067									U
Indeno(1,2,3-cd)pyrene	0.00067	0.00067									U
Naphthalene	0.00067	0.00067									U
Phenanthrene	0.00067	0.00067									U
Pyrene	0.00067	0.00067									U
Surr: 2-Fluorobiphenyl	14		16.57		86.7	46	115				
Surr: Nitrobenzene-d5	16		16.57		93.9	44	125				
Surr: Terphenyl-d14	16		16.57		96.2	58	133				

Sample ID:	**LCS-40291**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87753**
Client ID:	**LCSS**	Batch ID:	**40291**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/26/2016**	SeqNo:	**1705093**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.0093	0.00067	0.013	0	69.7	43	111				Y
2-Methylnaphthalene	0.0085	0.00067	0.013	0	64.2	39	114				
Acenaphthene	0.0086	0.00067	0.013	0	64.6	44	111				
Acenaphthylene	0.0084	0.00067	0.013	0	63.3	39	116				
Anthracene	0.0088	0.00067	0.013	0	66.6	50	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	LCS-40291	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	LCSS	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705093

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.0097	0.00067	0.013	0	73.0	54	122				
Benzo(a)pyrene	0.0089	0.00067	0.013	0	67.0	50	125				
Benzo(b)fluoranthene	0.0097	0.00067	0.013	0	72.9	53	128				
Benzo(g,h,i)perylene	0.0091	0.00067	0.013	0	68.8	49	127				
Benzo(k)fluoranthene	0.010	0.00067	0.013	0	74.9	56	123				
Chrysene	0.0096	0.00067	0.013	0	71.9	57	118				
Dibenzo(a,h)anthracene	0.0092	0.00067	0.013	0	69.5	50	129				
Fluoranthene	0.0096	0.00067	0.013	0	72.0	55	119				
Fluorene	0.0085	0.00067	0.013	0	63.6	47	114				
Indeno(1,2,3-cd)pyrene	0.0091	0.00067	0.013	0	68.8	49	130				
Naphthalene	0.0079	0.00067	0.013	0	59.7	38	111				
Phenanthrene	0.0088	0.00067	0.013	0	66.2	49	113				
Pyrene	0.0094	0.00067	0.013	0	71.0	55	117				
Surr: 2-Fluorobiphenyl	14		16.62		87.2	46	115				
Surr: Nitrobenzene-d5	16		16.62		97.9	44	125				
Surr: Terphenyl-d14	18		16.62		106	58	133				

Sample ID:	1606652-005DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	201-SB01-25MS1	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705095

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.0020	0.014	0	96.1	43	111				Y
2-Methylnaphthalene	0.013	0.0020	0.014	0	93.1	39	114				
Acenaphthene	0.0095	0.0020	0.014	0	69.7	44	111				
Acenaphthylene	0.0089	0.0020	0.014	0	65.4	39	116				
Anthracene	0.0095	0.0020	0.014	0	69.7	50	114				
Benzo(a)anthracene	0.011	0.0020	0.014	0	77.5	54	122				
Benzo(a)pyrene	0.0088	0.0020	0.014	0	64.6	50	125				
Benzo(b)fluoranthene	0.011	0.0020	0.014	0	78.7	53	128				
Benzo(g,h,i)perylene	0.0094	0.0020	0.014	0	69.0	49	127				
Benzo(k)fluoranthene	0.011	0.0020	0.014	0	78.0	56	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	1606652-005DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	201-SB01-25MS1	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705095

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.0099	0.0020	0.014	0	72.8	57	118				
Dibenzo(a,h)anthracene	0.0090	0.0020	0.014	0	66.0	50	129				
Fluoranthene	0.011	0.0020	0.014	0.0021	67.9	55	119				
Fluorene	0.0092	0.0020	0.014	0	67.7	47	114				
Indeno(1,2,3-cd)pyrene	0.0094	0.0020	0.014	0	69.0	49	130				
Naphthalene	0.010	0.0020	0.014	0	74.4	38	111				
Phenanthrene	0.010	0.0020	0.014	0	74.5	49	113				
Pyrene	0.011	0.0020	0.014	0	80.0	55	117				
Surr: 2-Fluorobiphenyl	17		16.98		98.4	46	115				
Surr: Nitrobenzene-d5	18		16.98		107	44	125				
Surr: Terphenyl-d14	18		16.98		104	58	133				

Sample ID:	1606652-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	201-SB01-25SD1	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705096

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.014	0.0020	0.013	0	104	43	111	0.013	6.74	25	Y
2-Methylnaphthalene	0.013	0.0020	0.013	0	99.7	39	114	0.013	5.74	25	
Acenaphthene	0.011	0.0020	0.013	0	81.9	44	111	0.0095	15.1	25	
Acenaphthylene	0.010	0.0020	0.013	0	77.9	39	116	0.0089	16.3	25	
Anthracene	0.011	0.0020	0.013	0	83.9	50	114	0.0095	17.4	25	
Benzo(a)anthracene	0.012	0.0020	0.013	0	90.6	54	122	0.011	14.5	25	
Benzo(a)pyrene	0.010	0.0020	0.013	0	77.3	50	125	0.0088	16.9	25	
Benzo(b)fluoranthene	0.013	0.0020	0.013	0	96.1	53	128	0.011	18.7	25	
Benzo(g,h,i)perylene	0.011	0.0020	0.013	0	80.9	49	127	0.0094	14.8	25	
Benzo(k)fluoranthene	0.012	0.0020	0.013	0	86.4	56	123	0.011	9.11	25	
Chrysene	0.011	0.0020	0.013	0	84.0	57	118	0.0099	13.2	25	
Dibenzo(a,h)anthracene	0.010	0.0020	0.013	0	76.6	50	129	0.0090	13.8	25	
Fluoranthene	0.013	0.0020	0.013	0.0021	83.6	55	119	0.011	16.4	25	
Fluorene	0.011	0.0020	0.013	0	79.3	47	114	0.0092	14.8	25	
Indeno(1,2,3-cd)pyrene	0.011	0.0020	0.013	0	80.9	49	130	0.0094	14.8	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	1606652-005DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	201-SB01-25SD1	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705096

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Naphthalene	0.011	0.0020	0.013	0	82.5	38	111	0.010	9.18	25	
Phenanthrene	0.012	0.0020	0.013	0	88.4	49	113	0.010	16.0	25	
Pyrene	0.013	0.0020	0.013	0	93.1	55	117	0.011	14.0	25	
Surr: 2-Fluorobiphenyl	18		16.80		105	46	115		0	25	
Surr: Nitrobenzene-d5	18		16.80		110	44	125		0	25	
Surr: Terphenyl-d14	19		16.80		115	58	133		0	25	

Sample ID:	1606652-014DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	203-SB05-21MS1	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705098

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	9.4	0.0026	0.017	5.6	22,400	43	111				JQY
2-Methylnaphthalene	8.7	0.0026	0.017	5.6	18,200	39	114				JQ
Acenaphthene	1.5	0.0026	0.017	0.20	7,740	44	111				JQ
Acenaphthylene	0.48	0.0026	0.017	0.22	1,510	39	116				JQ
Anthracene	4.6	0.0026	0.017	66	-358,000	50	114				JQ
Benzo(a)anthracene	0.13	0.0026	0.017	0.14	-60.8	54	122				JQ
Benzo(a)pyrene	0.072	0.0026	0.017	0.071	9.64	50	125				Q
Benzo(b)fluoranthene	0.11	0.0026	0.017	0.12	-52.7	53	128				Q
Benzo(g,h,i)perylene	0.037	0.0026	0.017	0.031	33.5	49	127				Q
Benzo(k)fluoranthene	0.042	0.0026	0.017	0.038	24.5	56	123				Q
Chrysene	0.11	0.0026	0.017	0.11	-11.3	57	118				Q
Dibenzo(a,h)anthracene	0.023	0.0026	0.017	0.013	59.4	50	129				
Fluoranthene	0.47	0.0026	0.017	2.6	-12,200	55	119				JQ
Fluorene	1.5	0.0026	0.017	0.70	4,800	47	114				JQ
Indeno(1,2,3-cd)pyrene	0.037	0.0026	0.017	0.031	33.5	49	130				Q
Naphthalene	5.6	0.0026	0.017	0.40	30,400	38	111				JQ
Phenanthrene	4.3	0.0026	0.017	61	-332,000	49	113				JQ
Pyrene	0.63	0.0026	0.017	0.66	-163	55	117				JQ
Surr: 2-Fluorobiphenyl	95		21.42		443	46	115				Q
Surr: Nitrobenzene-d5	540		21.42		2,500	44	125				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	1606652-014DMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	203-SB05-21MS1	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705098

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Terphenyl-d14	32		21.42		151	58	133				Q

Sample ID:	1606652-014DMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	203-SB05-21SD1	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705099

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	13	0.0026	0.017	5.6	43,800	43	111	9.4	32.7	25	JRQY
2-Methylnaphthalene	12	0.0026	0.017	5.6	39,400	39	114	8.7	34.9	25	JRQ
Acenaphthene	0.74	0.0026	0.017	0.20	3,150	44	111	1.5	69.0	25	JRQ
Acenaphthylene	0.20	0.0026	0.017	0.22	-130	39	116	0.48	82.8	25	JRQ
Anthracene	18	0.0026	0.017	66	-281,000	50	114	4.6	116	25	JRQ
Benzo(a)anthracene	0.11	0.0026	0.017	0.14	-176	54	122	0.13	16.1	25	Q
Benzo(a)pyrene	0.062	0.0026	0.017	0.071	-51.5	50	125	0.072	15.7	25	Q
Benzo(b)fluoranthene	0.089	0.0026	0.017	0.12	-169	53	128	0.11	20.2	25	Q
Benzo(g,h,i)perylene	0.033	0.0026	0.017	0.031	10.1	49	127	0.037	11.5	25	Q
Benzo(k)fluoranthene	0.040	0.0026	0.017	0.038	12.3	56	123	0.042	5.10	25	Q
Chrysene	0.086	0.0026	0.017	0.11	-146	57	118	0.11	23.8	25	Q
Dibenzo(a,h)anthracene	0.0046	0.0026	0.017	0.013	-50.4	50	129	0.023	134	25	RQ
Fluoranthene	6.6	0.0026	0.017	2.6	23,500	55	119	0.47	174	25	JRQ
Fluorene	0.67	0.0026	0.017	0.70	-181	47	114	1.5	77.8	25	JRQ
Indeno(1,2,3-cd)pyrene	0.033	0.0026	0.017	0.031	10.1	49	130	0.037	11.5	25	Q
Naphthalene	8.1	0.0026	0.017	0.40	44,700	38	111	5.6	36.4	25	JRQ
Phenanthrene	63	0.0026	0.017	61	9,780	49	113	4.3	174	25	JRQ
Pyrene	0.53	0.0026	0.017	0.66	-715	55	117	0.63	16.3	25	JQ
Surr: 2-Fluorobiphenyl	21		21.53		97.3	46	115		0	25	
Surr: Nitrobenzene-d5	510		21.53		2,360	44	125		0	25	JQ
Surr: Terphenyl-d14	32		21.53		147	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	1606606-002AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705125

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.013	0.0022	0.014	0.0044	62.7	43	111				Y
2-Methylnaphthalene	0.012	0.0022	0.014	0.0048	50.1	39	114				
Acenaphthene	0.011	0.0022	0.014	0	77.0	44	111				
Acenaphthylene	0.011	0.0022	0.014	0	74.8	39	116				
Anthracene	0.012	0.0022	0.014	0	80.5	50	114				
Benzo(a)anthracene	0.012	0.0022	0.014	0	84.8	54	122				
Benzo(a)pyrene	0.011	0.0022	0.014	0	78.7	50	125				
Benzo(b)fluoranthene	0.012	0.0022	0.014	0	86.4	53	128				
Benzo(g,h,i)perylene	0.011	0.0022	0.014	0	75.0	49	127				
Benzo(k)fluoranthene	0.012	0.0022	0.014	0	81.2	56	123				
Chrysene	0.011	0.0022	0.014	0	76.5	57	118				
Dibenzo(a,h)anthracene	0.011	0.0022	0.014	0	75.2	50	129				
Fluoranthene	0.012	0.0022	0.014	0	82.4	55	119				
Fluorene	0.011	0.0022	0.014	0	75.0	47	114				
Indeno(1,2,3-cd)pyrene	0.011	0.0022	0.014	0	75.0	49	130				
Naphthalene	0.012	0.0022	0.014	0.0026	63.6	38	111				
Phenanthrene	0.011	0.0022	0.014	0	75.4	49	113				
Pyrene	0.011	0.0022	0.014	0	78.7	55	117				
Surr: 2-Fluorobiphenyl	16		17.90		91.4	46	115				
Surr: Nitrobenzene-d5	17		17.90		93.0	44	125				
Surr: Terphenyl-d14	18		17.90		99.8	58	133				

Sample ID:	1606606-002AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	mg/Kg-dry	Prep Date:	6/29/2016	RunNo:	87753
Client ID:	ZZZZZZ	Batch ID:	40291	TestNo:	SW8270C	SW3550C		Analysis Date:	7/26/2016	SeqNo:	1705126

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.015	0.0021	0.014	0.0044	76.9	43	111	0.013	13.5	25	Y
2-Methylnaphthalene	0.014	0.0021	0.014	0.0048	64.4	39	114	0.012	15.2	25	
Acenaphthene	0.012	0.0021	0.014	0	85.4	44	111	0.011	9.60	25	
Acenaphthylene	0.012	0.0021	0.014	0	84.0	39	116	0.011	10.7	25	
Anthracene	0.013	0.0021	0.014	0	90.9	50	114	0.012	11.3	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40291**

Sample ID:	**1606606-002AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8270S-SIM**	Units:	**mg/Kg-dry**	Prep Date:	**6/29/2016**	RunNo:	**87753**
Client ID:	**ZZZZZZ**	Batch ID:	**40291**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**7/26/2016**	SeqNo:	**1705126**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzo(a)anthracene	0.013	0.0021	0.014	0	94.5	54	122	0.012	10.0	25	
Benzo(a)pyrene	0.012	0.0021	0.014	0	87.5	50	125	0.011	9.75	25	
Benzo(b)fluoranthene	0.014	0.0021	0.014	0	97.1	53	128	0.012	10.8	25	
Benzo(g,h,i)perylene	0.012	0.0021	0.014	0	82.8	49	127	0.011	9.09	25	
Benzo(k)fluoranthene	0.012	0.0021	0.014	0	86.0	56	123	0.012	4.98	25	
Chrysene	0.012	0.0021	0.014	0	84.3	57	118	0.011	8.86	25	
Dibenzo(a,h)anthracene	0.012	0.0021	0.014	0	83.4	50	129	0.011	9.51	25	
Fluoranthene	0.013	0.0021	0.014	0	94.6	55	119	0.012	13.0	25	
Fluorene	0.012	0.0021	0.014	0	82.8	47	114	0.011	9.16	25	
Indeno(1,2,3-cd)pyrene	0.012	0.0021	0.014	0	82.8	49	130	0.011	9.09	25	
Naphthalene	0.013	0.0021	0.014	0.0026	75.9	38	111	0.012	13.2	25	
Phenanthrene	0.012	0.0021	0.014	0	84.5	49	113	0.011	10.5	25	
Pyrene	0.013	0.0021	0.014	0	88.6	55	117	0.011	11.0	25	
Surr: 2-Fluorobiphenyl	18		17.76		101	46	115		0	25	
Surr: Nitrobenzene-d5	19		17.76		106	44	125		0	25	
Surr: Terphenyl-d14	20		17.76		111	58	133		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	MB-40406	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	PBS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703715

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	27	5.0	25	0	109	74	119				
Antimony	25	1.0	25	0	100	79	114				
Arsenic	23	2.0	25	0	93.5	82	111				
Barium	26	10	25	0	103	83	113				
Beryllium	25	0.25	25	0	100	83	113				
Cadmium	23	0.25	25	0	91.7	82	113				
Calcium	250	50	250	0	98.5	81	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cobalt	24	1.0	25	0	97.5	85	112				
Copper	27	5.0	25	0	107	81	117				
Iron	240	15	250	0	96.1	81	118				
Lead	25	5.0	25	0	99.5	81	112				
Magnesium	250	50	250	0	99.6	78	115				
Manganese	26	1.0	25	0	105	84	114				
Nickel	25	5.0	25	0	100	83	113				
Potassium	260	20	250	0	103	81	116				
Selenium	25	2.0	25	0	101	78	111				
Silver	23	1.0	25	0	91.6	82	112				
Sodium	260	50	250	0	102	83	118				
Vanadium	25	2.5	25	0	98.6	82	114				

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	17,000	3.8	19	15,000	9,960	74	119				Q
Antimony	22	0.76	19	3.2	96.0	79	114				
Arsenic	22	1.5	19	3.7	95.5	82	111				
Barium	59	7.6	19	38	112	83	113				
Beryllium	19	0.19	19	0.17	96.5	83	113				
Cadmium	18	0.19	19	0.063	94.9	82	113				
Calcium	1,000	38	190	620	218	81	116				Q
Cobalt	21	0.76	19	3.4	92.8	85	112				
Copper	71	3.8	19	38	171	81	117				Q
Iron	15,000	11	190	14,000	589	81	118				JQ
Lead	24	3.8	19	5.8	97.2	81	112				
Magnesium	2,600	38	190	2,200	207	78	115				JQ
Manganese	190	0.76	19	160	186	84	114				JQ
Nickel	34	3.8	19	10	126	83	113				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,400	15	190	1,100	158	81	116				Q
Selenium	13	1.5	19	0	67.5	78	111				Q
Silver	18	0.76	19	0	95.5	82	112				
Sodium	320	38	190	91	120	83	118				Q
Vanadium	48	1.9	19	27	111	82	114				J

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87697
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	7/28/2016	SeqNo:	1703719

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	18,000	3.8	19	15,000	16,700	74	119	17,000	7.32	20	Q
Antimony	20	0.76	19	3.2	90.1	79	114	22	5.92	20	
Arsenic	20	1.5	19	3.7	86.9	82	111	22	8.31	20	
Barium	61	7.6	19	38	125	83	113	59	3.92	20	Q
Beryllium	18	0.19	19	0.17	91.6	83	113	19	5.73	20	
Cadmium	17	0.19	19	0.063	89.0	82	113	18	7.00	20	
Calcium	910	38	190	620	155	81	116	1,000	12.5	20	Q
Cobalt	20	0.76	19	3.4	87.3	85	112	21	5.66	20	
Copper	69	3.8	19	38	163	81	117	71	2.53	20	Q
Iron	16,000	11	190	14,000	1,210	81	118	15,000	7.45	20	JQ
Lead	23	3.8	19	5.8	90.4	81	112	24	5.96	20	
Magnesium	2,400	38	190	2,200	108	78	115	2,600	7.72	20	J
Manganese	180	0.76	19	160	104	84	114	190	8.58	20	
Nickel	31	3.8	19	10	111	83	113	34	8.77	20	
Potassium	1,200	15	190	1,100	85.3	81	116	1,400	10.9	20	
Selenium	10	1.5	19	0	52.8	78	111	13	25.2	20	RQ
Silver	17	0.76	19	0	88.7	82	112	18	7.99	20	
Sodium	270	38	190	91	96.7	83	118	320	15.0	20	
Vanadium	46	1.9	19	27	101	82	114	48	4.29	20	J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40406

Sample ID:	MB-40406	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	PBS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706197

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	0.50	0.50									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40406	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	LCSS	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706198

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	26	0.50	25	0	104	85	113				
Zinc	25	5.0	25	0	99.4	82	113				

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706200

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	42	0.38	19	19	116	85	113				Q
Zinc	67	3.8	19	28	205	82	113				Q

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87792
Client ID:	ZZZZZZ	Batch ID:	40406	TestNo:	SW6010B	SW3050B		Analysis Date:	8/2/2016	SeqNo:	1706201

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	38	0.38	19	19	96.9	85	113	42	9.34	20	
Zinc	57	3.8	19	28	154	82	113	67	16.0	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40409

Sample ID:	LCS-40409	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	LCSS	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697329

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.8	0.20	10	0	97.9	83	118				

Sample ID:	MB-40409	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	PBS	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697330

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	1606605-003BMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697332

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.5	0.16	7.9	0.096	94.3	83	118				

Sample ID:	1606605-003BMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	87409
Client ID:	ZZZZZZ	Batch ID:	40409	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697333

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.9	0.16	7.9	0.096	86.2	83	118	7.5	8.82	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40430**

Sample ID:	MB-40430	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87746
Client ID:	PBS	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	7/29/2016	SeqNo:	1704832

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	0.77	5.0									J
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	1.4	5.0									J

Sample ID:	LCS-40430	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87746
Client ID:	LCSS	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	7/29/2016	SeqNo:	1704833

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	28	5.0	25	0	112	74	119				
Antimony	25	1.0	25	0	99.0	79	114				
Arsenic	24	2.0	25	0	96.5	82	111				
Barium	24	10	25	0	94.1	83	113				
Beryllium	25	0.25	25	0	98.1	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40430

Sample ID:	LCS-40430	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87746
Client ID:	LCSS	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	7/29/2016	SeqNo:	1704833

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	23	0.25	25	0	94.0	82	113				
Calcium	240	50	250	0	97.5	81	116				
Chromium	24	0.50	25	0	96.7	85	113				
Cobalt	25	1.0	25	0	99.8	85	112				
Copper	26	5.0	25	0	103	81	117				
Iron	230	15	250	0	92.2	81	118				
Lead	25	5.0	25	0	98.6	81	112				
Magnesium	230	50	250	0	91.9	78	115				
Manganese	26	1.0	25	0	104	84	114				
Nickel	24	5.0	25	0	94.4	83	113				
Potassium	240	20	250	0	94.3	81	116				
Selenium	25	2.0	25	0	99.4	78	111				
Silver	23	1.0	25	0	90.9	82	112				
Sodium	230	50	250	0	90.6	83	118				
Vanadium	24	2.5	25	0	97.7	82	114				
Zinc	25	5.0	25	0	100	82	113				

Sample ID:	1606652-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87746
Client ID:	201-SB01-25MS1	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	7/29/2016	SeqNo:	1704835

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	4,900	3.4	17	5,000	-596	74	119				Q
Antimony	19	0.68	17	3.0	91.2	79	114				
Arsenic	18	1.4	17	1.3	96.0	82	111				
Barium	42	6.8	17	27	84.9	83	113				
Beryllium	17	0.17	17	0.014	97.9	83	113				
Cadmium	16	0.17	17	0	94.8	82	113				
Calcium	1,100	34	170	780	214	81	116				Q
Cobalt	19	0.68	17	3.2	92.1	85	112				
Copper	44	3.4	17	26	108	81	117				
Iron	9,900	10	170	9,300	393	81	118				JQ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40430

Sample ID: **1606652-005FMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/14/2016** RunNo: **87746**

Client ID: **201-SB01-25MS1** Batch ID: **40430** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/29/2016** SeqNo: **1704835**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Lead	17	3.4	17	0.97	92.2	81	112				
Magnesium	1,500	34	170	1,500	15.1	78	115				Q
Manganese	210	0.68	17	220	-68.9	84	114				JQ
Nickel	21	3.4	17	5.9	90.3	83	113				
Potassium	940	14	170	910	18.0	81	116				Q
Selenium	15	1.4	17	0	87.2	78	111				
Silver	16	0.68	17	0	91.6	82	112				
Sodium	300	34	170	130	104	83	118				
Vanadium	34	1.7	17	17	98.9	82	114				

Sample ID: **1606652-005FMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/14/2016** RunNo: **87746**

Client ID: **201-SB01-25SD1** Batch ID: **40430** TestNo: **SW6010B** **SW3050B** Analysis Date: **7/29/2016** SeqNo: **1704836**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	4,900	3.4	17	5,000	-816	74	119	4,900	0.741	20	Q
Antimony	18	0.67	17	3.0	91.3	79	114	19	0.461	20	
Arsenic	18	1.3	17	1.3	96.9	82	111	18	0.205	20	
Barium	41	6.7	17	27	85.2	83	113	42	0.115	20	
Beryllium	17	0.17	17	0.014	98.9	83	113	17	0.316	20	
Cadmium	16	0.17	17	0	95.4	82	113	16	0.00560	20	
Calcium	990	34	170	780	129	81	116	1,100	13.6	20	Q
Cobalt	19	0.67	17	3.2	91.5	85	112	19	1.13	20	
Copper	41	3.4	17	26	91.0	81	117	44	7.00	20	
Iron	8,600	10	170	9,300	-369	81	118	9,900	13.9	20	JQ
Lead	17	3.4	17	0.97	92.4	81	112	17	0.413	20	
Magnesium	1,500	34	170	1,500	-4.38	78	115	1,500	2.17	20	Q
Manganese	210	0.67	17	220	-46.7	84	114	210	1.81	20	JQ
Nickel	21	3.4	17	5.9	90.3	83	113	21	0.487	20	
Potassium	930	13	170	910	12.3	81	116	940	1.04	20	Q
Selenium	14	1.3	17	0	83.0	78	111	15	5.67	20	
Silver	16	0.67	17	0	92.7	82	112	16	0.558	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40430

Sample ID:	1606652-005FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87746
Client ID:	201-SB01-25SD1	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	7/29/2016	SeqNo:	1704836

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Sodium	320	34	170	130	112	83	118	300	3.97	20	
Vanadium	31	1.7	17	17	84.0	82	114	34	8.12	20	

Sample ID:	1606652-005FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87767
Client ID:	201-SB01-25MS1	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	8/1/2016	SeqNo:	1705548

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	25	0.34	17	9.2	92.5	85	113				
Zinc	25	3.4	17	11	83.2	82	113				

Sample ID:	1606652-005FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87767
Client ID:	201-SB01-25SD1	Batch ID:	40430	TestNo:	SW6010B	SW3050B		Analysis Date:	8/1/2016	SeqNo:	1705550

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	25	0.34	17	9.2	91.4	85	113	25	1.12	20	
Zinc	25	3.4	17	11	83.8	82	113	25	0.0281	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40434**

Sample ID:	MB-40434	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	PBS	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697390

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	LCS-40434	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	LCSS	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697391

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	9.7	0.20	10	0	97.1	83	118				

Sample ID:	1606652-005FMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	201-SB01-25MS1	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697393

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.1	0.13	6.6	0.077	92.4	83	118				

Sample ID:	1606652-005FMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/14/2016	RunNo:	87409
Client ID:	201-SB01-25SD1	Batch ID:	40434	TestNo:	SW6020A	SW3050B		Analysis Date:	7/15/2016	SeqNo:	1697394

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	6.4	0.13	6.5	0.077	97.5	83	118	6.1	4.65	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40445**

Sample ID:	MB-40445	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	PBS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700107

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	1.0	1.0									U
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	2.1	50									J
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40445	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	LCSS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	26	5.0	25	0	104	74	119				
Antimony	25	1.0	25	0	99.8	79	114				
Arsenic	24	2.0	25	0	97.0	82	111				
Barium	25	10	25	0	99.3	83	113				
Beryllium	24	0.25	25	0	96.0	83	113				
Cadmium	24	0.25	25	0	96.3	82	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40445**

Sample ID:	LCS-40445	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	LCSS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700108

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Calcium	230	50	250	0	90.9	81	116				
Cobalt	26	1.0	25	0	103	85	112				
Copper	27	5.0	25	0	106	81	117				
Iron	230	15	250	0	92.0	81	118				
Lead	26	5.0	25	0	103	81	112				
Magnesium	240	50	250	0	96.1	78	115				
Manganese	27	1.0	25	0	107	84	114				
Nickel	25	5.0	25	0	101	83	113				
Potassium	240	20	250	0	97.1	81	116				
Selenium	26	2.0	25	0	103	78	111				
Silver	24	1.0	25	0	95.6	82	112				
Sodium	240	50	250	0	96.0	83	118				
Vanadium	25	2.5	25	0	100	82	114				
Zinc	25	5.0	25	0	99.7	82	113				

Sample ID:	1606652-015FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	H17-SB01-05MS1	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700110

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	6,800	3.6	18	6,000	4,650	74	119				Q
Antimony	20	0.72	18	3.0	95.9	79	114				
Arsenic	19	1.4	18	1.4	100	82	111				
Barium	35	7.2	18	16	105	83	113				
Beryllium	17	0.18	18	0	96.7	83	113				
Cadmium	18	0.18	18	0.031	97.7	82	113				
Calcium	1,300	36	180	640	356	81	116				Q
Cobalt	20	0.72	18	3.3	92.8	85	112				
Copper	54	3.6	18	29	138	81	117				Q
Iron	13,000	11	180	11,000	1,130	81	118				JQ
Lead	20	3.6	18	2.2	97.0	81	112				
Magnesium	1,500	36	180	1,300	103	78	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40445

Sample ID:	1606652-015FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	H17-SB01-05MS1	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700110

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Manganese	180	0.72	18	180	-16.1	84	114				JQ
Nickel	23	3.6	18	6.5	94.0	83	113				
Potassium	990	14	180	840	84.0	81	116				
Selenium	12	1.4	18	0	69.2	78	111				Q
Silver	17	0.72	18	0	96.6	82	112				
Sodium	270	36	180	77	107	83	118				
Vanadium	41	1.8	18	19	122	82	114				JQ
Zinc	31	3.6	18	14	94.6	82	113				

Sample ID:	1606652-015FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541
Client ID:	H17-SB01-05SD1	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700111

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,000	3.5	18	6,000	5,690	74	119	6,800	2.52	20	Q
Antimony	20	0.71	18	3.0	96.4	79	114	20	0.649	20	
Arsenic	19	1.4	18	1.4	101	82	111	19	0.683	20	
Barium	36	7.1	18	16	112	83	113	35	3.16	20	
Beryllium	17	0.18	18	0	97.3	83	113	17	0.636	20	
Cadmium	17	0.18	18	0.031	97.7	82	113	18	1.34	20	
Calcium	860	35	180	640	124	81	116	1,300	38.9	20	RQ
Cobalt	20	0.71	18	3.3	93.1	85	112	20	0.764	20	
Copper	54	3.5	18	29	144	81	117	54	1.15	20	Q
Iron	14,000	11	180	11,000	1,460	81	118	13,000	4.16	20	JQ
Lead	19	3.5	18	2.2	95.5	81	112	20	2.51	20	
Magnesium	1,600	35	180	1,300	171	78	115	1,500	7.59	20	Q
Manganese	220	0.71	18	180	197	84	114	180	18.9	20	JQ
Nickel	23	3.5	18	6.5	95.4	83	113	23	0.203	20	
Potassium	950	14	180	840	63.5	81	116	990	3.93	20	Q
Selenium	13	1.4	18	0	72.4	78	111	12	3.20	20	Q
Silver	17	0.71	18	0	97.5	82	112	17	0.368	20	
Sodium	240	35	180	77	92.8	83	118	270	11.1	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40445

Sample ID:	1606652-015FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87541	
Client ID:	H17-SB01-05SD1	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/21/2016	SeqNo:	1700111	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Vanadium	38	1.8	18	19	109	82	114	41	6.75	20	J	
Zinc	30	3.5	18	14	94.0	82	113	31	1.05	20		

Sample ID:	MB-40445	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	PBS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701727	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	0.50	0.50									U	

Sample ID:	LCS-40445	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	LCSS	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701729	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	25	0.50	25	0	101	85	113					

Sample ID:	1606652-015FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	H17-SB01-05MS1	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701733	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	29	0.36	18	10	101	85	113					

Sample ID:	1606652-015FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/15/2016	RunNo:	87607	
Client ID:	H17-SB01-05SD1	Batch ID:	40445	TestNo:	SW6010B	SW3050B		Analysis Date:	7/25/2016	SeqNo:	1701734	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Chromium	30	0.35	18	10	110	85	113	29	4.61	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40481**

Sample ID:	MB-40481	Samp Type:	MBLK	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/19/2016	RunNo:	87852
Client ID:	PBS	Batch ID:	40481	TestNo:	SW6010B	SW3050B		Analysis Date:	8/4/2016	SeqNo:	1707715

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5.0	5.0									U
Antimony	1.0	1.0									U
Arsenic	2.0	2.0									U
Barium	10	10									U
Beryllium	0.25	0.25									U
Cadmium	0.25	0.25									U
Calcium	50	50									U
Chromium	0.50	0.50									U
Cobalt	1.0	1.0									U
Copper	5.0	5.0									U
Iron	15	15									U
Lead	5.0	5.0									U
Magnesium	50	50									U
Manganese	0.37	1.0									J
Nickel	5.0	5.0									U
Potassium	20	20									U
Selenium	2.0	2.0									U
Silver	1.0	1.0									U
Sodium	50	50									U
Vanadium	2.5	2.5									U
Zinc	5.0	5.0									U

Sample ID:	LCS-40481	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/19/2016	RunNo:	87852
Client ID:	LCSS	Batch ID:	40481	TestNo:	SW6010B	SW3050B		Analysis Date:	8/4/2016	SeqNo:	1707716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	24	5.0	25	0	95.5	74	119				
Antimony	24	1.0	25	0	94.8	79	114				
Arsenic	23	2.0	25	0	92.9	82	111				
Barium	23	10	25	0	91.6	83	113				
Beryllium	21	0.25	25	0	84.9	83	113				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40481

Sample ID:	LCS-40481	Samp Type:	LCS	Test Code:	SW_6010S	Units:	mg/Kg	Prep Date:	7/19/2016	RunNo:	87852
Client ID:	LCSS	Batch ID:	40481	TestNo:	SW6010B	SW3050B		Analysis Date:	8/4/2016	SeqNo:	1707716

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cadmium	24	0.25	25	0	95.7	82	113				
Calcium	220	50	250	0	87.6	81	116				
Chromium	23	0.50	25	0	93.9	85	113				
Cobalt	24	1.0	25	0	97.6	85	112				
Copper	25	5.0	25	0	101	81	117				
Iron	210	15	250	0	83.0	81	118				
Lead	24	5.0	25	0	95.8	81	112				
Magnesium	220	50	250	0	88.7	78	115				
Manganese	24	1.0	25	0	96.1	84	114				
Nickel	27	5.0	25	0	107	83	113				
Potassium	220	20	250	0	87.4	81	116				
Selenium	24	2.0	25	0	96.8	78	111				
Silver	24	1.0	25	0	95.7	82	112				
Sodium	220	50	250	0	86.7	83	118				
Vanadium	24	2.5	25	0	94.2	82	114				
Zinc	24	5.0	25	0	96.8	82	113				

Sample ID:	1606652-014FMS	Samp Type:	MS	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/19/2016	RunNo:	87852
Client ID:	203-SB05-21MS1	Batch ID:	40481	TestNo:	SW6010B	SW3050B		Analysis Date:	8/4/2016	SeqNo:	1707718

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,800	4.3	21	8,900	-196	74	119				Q
Antimony	23	0.86	21	3.5	90.7	79	114				
Arsenic	22	1.7	21	1.6	94.5	82	111				
Barium	58	8.6	21	42	72.3	83	113				Q
Beryllium	20	0.21	21	0.23	91.5	83	113				
Cadmium	20	0.21	21	0.032	95.0	82	113				
Calcium	1,000	43	210	810	111	81	116				
Chromium	32	0.43	21	13	90.5	85	113				
Cobalt	24	0.86	21	3.8	92.8	85	112				
Copper	52	4.3	21	31	98.6	81	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40481**

Sample ID: **1606652-014FMS** Samp Type: **MS** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/19/2016** RunNo: **87852**

Client ID: **203-SB05-21MS1** Batch ID: **40481** TestNo: **SW6010B** **SW3050B** Analysis Date: **8/4/2016** SeqNo: **1707718**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Iron	9,300	13	210	9,800	-221	81	118				JQ
Lead	22	4.3	21	3.5	87.5	81	112				
Magnesium	2,000	43	210	2,100	-20.4	78	115				Q
Manganese	140	0.86	21	130	45.1	84	114				Q
Nickel	33	4.3	21	8.4	113	83	113				Q
Potassium	1,500	17	210	1,500	15.7	81	116				Q
Selenium	17	1.7	21	0	81.1	78	111				
Silver	20	0.86	21	0	94.8	82	112				
Sodium	320	43	210	120	91.9	83	118				
Vanadium	43	2.1	21	22	94.9	82	114				
Zinc	34	4.3	21	16	82.2	82	113				

Sample ID: **1606652-014FMSD** Samp Type: **MSD** Test Code: **SW_6010S** Units: **mg/Kg-dry** Prep Date: **7/19/2016** RunNo: **87852**

Client ID: **203-SB05-21SD1** Batch ID: **40481** TestNo: **SW6010B** **SW3050B** Analysis Date: **8/4/2016** SeqNo: **1707719**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	10,000	4.3	21	8,900	7,500	74	119	8,800	17.1	20	Q
Antimony	24	0.86	21	3.5	96.7	79	114	23	5.44	20	
Arsenic	24	1.7	21	1.6	103	82	111	22	7.79	20	
Barium	67	8.6	21	42	114	83	113	58	14.4	20	Q
Beryllium	21	0.21	21	0.23	97.4	83	113	20	6.22	20	
Cadmium	21	0.21	21	0.032	98.0	82	113	20	3.15	20	
Calcium	1,200	43	210	810	160	81	116	1,000	9.64	20	Q
Chromium	36	0.43	21	13	107	85	113	32	10.3	20	
Cobalt	24	0.86	21	3.8	95.4	85	112	24	2.31	20	
Copper	59	4.3	21	31	130	81	117	52	12.3	20	Q
Iron	11,000	13	210	9,800	504	81	118	9,300	15.4	20	JQ
Lead	24	4.3	21	3.5	95.5	81	112	22	7.44	20	
Magnesium	2,400	43	210	2,100	136	78	115	2,000	15.3	20	JQ
Manganese	170	0.86	21	130	143	84	114	140	13.6	20	Q
Nickel	34	4.3	21	8.4	121	83	113	33	4.63	20	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40481

Sample ID:	1606652-014FMSD	Samp Type:	MSD	Test Code:	SW_6010S	Units:	mg/Kg-dry	Prep Date:	7/19/2016	RunNo:	87852
Client ID:	203-SB05-21SD1	Batch ID:	40481	TestNo:	SW6010B	SW3050B		Analysis Date:	8/4/2016	SeqNo:	1707719

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	1,700	17	210	1,500	122	81	116	1,500	14.2	20	Q
Selenium	19	1.7	21	0	90.3	78	111	17	10.7	20	
Silver	21	0.86	21	0	98.2	82	112	20	3.49	20	
Sodium	360	43	210	120	109	83	118	320	11.0	20	
Vanadium	47	2.1	21	22	116	82	114	43	9.90	20	JQ
Zinc	36	4.3	21	16	93.4	82	113	34	6.93	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40483**

Sample ID:	1606601-008BMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	ZZZZZZ	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699789

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.039	0.20	0	66.7	46	129				
Aroclor 1260	0.16	0.039	0.20	0	83.0	45	134				
Surr: Tetrachloro-m-xylene	6.3		9.865		64.2	44	130				
Surr: Decachlorobiphenyl	7.9		9.865		80.5	40	135				

Sample ID:	1606601-008BMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	ZZZZZZ	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699790

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.039	0.20	0	75.5	46	129	0.13	11.2	25	
Aroclor 1260	0.18	0.039	0.20	0	93.9	45	134	0.16	11.2	25	
Surr: Tetrachloro-m-xylene	7.0		9.755		71.9	44	130		0	25	
Surr: Decachlorobiphenyl	8.7		9.755		89.7	40	135		0	25	

Sample ID:	LCS-40483	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	LCSS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699817

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.19	0.033	0.16	0	113	46	129				
Aroclor 1260	0.20	0.033	0.16	0	121	45	134				
Surr: Tetrachloro-m-xylene	8.6		8.234		105	44	130				
Surr: Decachlorobiphenyl	9.7		8.234		118	40	135				

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40483**

Sample ID:	MB-40483	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87531
Client ID:	PBS	Batch ID:	40483	TestNo:	SW8082	SW3546		Analysis Date:	7/21/2016	SeqNo:	1699819

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.5		8.297		90.5	44	130				
Surr: Decachlorobiphenyl	8.3		8.297		99.9	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40484**

Sample ID:	1606652-005EMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87680
Client ID:	201-SB01-25MS1	Batch ID:	40484	TestNo:	SW8082	SW3546		Analysis Date:	7/24/2016	SeqNo:	1703367

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.034	0.17	0	88.2	46	129				
Aroclor 1260	0.15	0.034	0.17	0	90.1	45	134				
Surr: Tetrachloro-m-xylene	7.2		8.583		83.7	44	130				
Surr: Decachlorobiphenyl	7.9		8.583		91.7	40	135				

Sample ID:	1606652-005EMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87680
Client ID:	201-SB01-25SD1	Batch ID:	40484	TestNo:	SW8082	SW3546		Analysis Date:	7/24/2016	SeqNo:	1703368

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.18	0.034	0.17	0	106	46	129	0.15	18.5	25	
Aroclor 1260	0.18	0.034	0.17	0	103	45	134	0.15	13.6	25	
Surr: Tetrachloro-m-xylene	8.4		8.563		98.3	44	130		0	25	
Surr: Decachlorobiphenyl	9.1		8.563		106	40	135		0	25	

Sample ID:	LCS-40484	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87680
Client ID:	LCSS	Batch ID:	40484	TestNo:	SW8082	SW3546		Analysis Date:	7/24/2016	SeqNo:	1703406

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.16	0.032	0.16	0	95.9	46	129				
Aroclor 1260	0.15	0.032	0.16	0	91.3	45	134				
Surr: Tetrachloro-m-xylene	6.7		8.146		82.8	44	130				
Surr: Decachlorobiphenyl	7.6		8.146		93.1	40	135				

Sample ID:	MB-40484	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87680
Client ID:	PBS	Batch ID:	40484	TestNo:	SW8082	SW3546		Analysis Date:	7/24/2016	SeqNo:	1703408

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40484**

Sample ID:	MB-40484	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87680
Client ID:	PBS	Batch ID:	40484	TestNo:	SW8082	SW3546		Analysis Date:	7/24/2016	SeqNo:	1703408

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.0		8.300		84.5	44	130				
Surr: Decachlorobiphenyl	8.1		8.300		97.3	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40485

Sample ID:	1606652-014EMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87591
Client ID:	203-SB05-21MS1	Batch ID:	40485	TestNo:	SW8082	SW3546		Analysis Date:	7/22/2016	SeqNo:	1701353

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.23	0.042	0.21	0	107	46	129				
Aroclor 1260	0.21	0.042	0.21	0	96.7	45	134				
Surr: Tetrachloro-m-xylene	9.2		10.72		85.6	44	130				
Surr: Decachlorobiphenyl	11		10.72		100	40	135				

Sample ID:	1606652-014EMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87591
Client ID:	203-SB05-21SD1	Batch ID:	40485	TestNo:	SW8082	SW3546		Analysis Date:	7/22/2016	SeqNo:	1701354

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.23	0.043	0.22	0	104	46	129	0.23	1.18	25	
Aroclor 1260	0.23	0.043	0.22	0	103	45	134	0.21	8.20	25	
Surr: Tetrachloro-m-xylene	9.5		10.89		87.2	44	130		0	25	
Surr: Decachlorobiphenyl	12		10.89		107	40	135		0	25	

Sample ID:	LCS-40485	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87591
Client ID:	LCSS	Batch ID:	40485	TestNo:	SW8082	SW3546		Analysis Date:	7/22/2016	SeqNo:	1701367

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.21	0.033	0.17	0	124	46	129				
Aroclor 1260	0.19	0.033	0.17	0	113	45	134				
Surr: Tetrachloro-m-xylene	8.5		8.292		102	44	130				
Surr: Decachlorobiphenyl	9.7		8.292		117	40	135				

Sample ID:	MB-40485	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87591
Client ID:	PBS	Batch ID:	40485	TestNo:	SW8082	SW3546		Analysis Date:	7/22/2016	SeqNo:	1701368

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40485

Sample ID:	MB-40485	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87591
Client ID:	PBS	Batch ID:	40485	TestNo:	SW8082	SW3546		Analysis Date:	7/22/2016	SeqNo:	1701368

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	9.2		8.322		110	44	130				
Surr: Decachlorobiphenyl	10		8.322		121	60	125				

Sample ID:	LCS-40485	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87599
Client ID:	LCSS	Batch ID:	40485	TestNo:	SW8082	SW3546		Analysis Date:	7/22/2016	SeqNo:	1701646

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.17	0.033	0.17	0	99.9	46	129				
Aroclor 1260	0.20	0.033	0.17	0	118	45	134				
Surr: Tetrachloro-m-xylene	7.3		8.292		87.8	44	130				
Surr: Decachlorobiphenyl	9.6		8.292		115	40	135				

Sample ID:	1606652-014EMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87599
Client ID:	203-SB05-21SD1	Batch ID:	40485	TestNo:	SW8082	SW3546		Analysis Date:	7/22/2016	SeqNo:	1701809

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.20	0.043	0.22	0	89.9	46	129	0.23	16.1	25	
Aroclor 1260	0.23	0.043	0.22	0	104	45	134	0.21	9.14	25	
Surr: Tetrachloro-m-xylene	10		10.89		91.6	44	130		0	25	
Surr: Decachlorobiphenyl	11		10.89		105	40	135		0	25	

Sample ID:	LCS-40485	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87727
Client ID:	LCSS	Batch ID:	40485	TestNo:	SW8082	SW3546		Analysis Date:	7/22/2016	SeqNo:	1704382

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.21	0.033	0.17	0	124	46	129				
Aroclor 1260	0.19	0.033	0.17	0	113	45	134				
Surr: Tetrachloro-m-xylene	8.5		8.292		102	44	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40485**

Sample ID:	**LCS-40485**	Samp Type:	**LCS**	Test Code:	**SW_8082S**	Units:	**mg/Kg**	Prep Date:	**7/20/2016**	RunNo:	**87727**
Client ID:	**LCSS**	Batch ID:	**40485**	TestNo:	**SW8082**	**SW3546**		Analysis Date:	**7/22/2016**	SeqNo:	**1704382**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	9.7		8.292		117	40	135				

Sample ID:	**MB-40485**	Samp Type:	**MBLK**	Test Code:	**SW_8082S**	Units:	**mg/Kg**	Prep Date:	**7/20/2016**	RunNo:	**87727**
Client ID:	**PBS**	Batch ID:	**40485**	TestNo:	**SW8082**	**SW3546**		Analysis Date:	**7/22/2016**	SeqNo:	**1704383**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	9.2		8.322		110	44	130				
Surr: Decachlorobiphenyl	10		8.322		121	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40532**

Sample ID:	MB-40532	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/25/2016	RunNo:	87609
Client ID:	PBS	Batch ID:	40532	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1701989

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	LCS-40532	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/25/2016	RunNo:	87609
Client ID:	LCSS	Batch ID:	40532	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1702016

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	8.8	0.20	10	0	88.0	83	118				

Sample ID:	1606652-014FMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/25/2016	RunNo:	87609
Client ID:	203-SB05-21MS1	Batch ID:	40532	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1702018

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.3	0.17	8.5	0.19	83.8	83	118				

Sample ID:	1606652-014FMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/25/2016	RunNo:	87609
Client ID:	203-SB05-21SD1	Batch ID:	40532	TestNo:	SW6020A	SW3050B		Analysis Date:	7/26/2016	SeqNo:	1702019

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.3	0.17	8.4	0.19	84.4	83	118	7.3	1.19	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40560

Sample ID:	MB-40560	Samp Type:	MBLK	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/27/2016	RunNo:	87948
Client ID:	PBS	Batch ID:	40560	TestNo:	SW6020A	SW3050B		Analysis Date:	8/9/2016	SeqNo:	1709813

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	0.20	0.20									U

Sample ID:	LCS-40560	Samp Type:	LCS	Test Code:	SW_6020S	Units:	mg/Kg	Prep Date:	7/27/2016	RunNo:	87948
Client ID:	LCSS	Batch ID:	40560	TestNo:	SW6020A	SW3050B		Analysis Date:	8/9/2016	SeqNo:	1709829

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	11	0.20	10	0	107	83	118				

Sample ID:	1606652-015FMS	Samp Type:	MS	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/27/2016	RunNo:	87948
Client ID:	H17-SB01-05MS1	Batch ID:	40560	TestNo:	SW6020A	SW3050B		Analysis Date:	8/9/2016	SeqNo:	1709831

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	7.9	0.15	7.4	0.089	106	83	118				

Sample ID:	1606652-015FMSD	Samp Type:	MSD	Test Code:	SW_6020S	Units:	mg/Kg-dry	Prep Date:	7/27/2016	RunNo:	87948
Client ID:	H17-SB01-05SD1	Batch ID:	40560	TestNo:	SW6020A	SW3050B		Analysis Date:	8/9/2016	SeqNo:	1709847

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Thallium	8.3	0.15	7.3	0.089	113	83	118	7.9	4.90	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86902**

Sample ID:	**1606606-002B DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/23/2016**	RunNo:	**86902**
Client ID:	**ZZZZZZ**	Batch ID:	**R86902**	TestNo:	**D2216**			Analysis Date:	**6/23/2016**	SeqNo:	**1686218**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	8.7	1.0						8.680	0.593	20	

Sample ID:	**1606652-009G DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/23/2016**	RunNo:	**86902**
Client ID:	**203-SB03-04LR1**	Batch ID:	**R86902**	TestNo:	**D2216**			Analysis Date:	**6/23/2016**	SeqNo:	**1686232**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	5.9	1.0						5.879	1.16	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86936

Sample ID:	VOA10 LCS 062316	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	86936
Client ID:	LCSS	Batch ID:	R86936	TestNo:	SW8260B			Analysis Date:	6/23/2016	SeqNo:	1686684

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0093	0.0010	0.010	0	93.4	78	125				
1,1,1-Trichloroethane	0.0086	0.0010	0.010	0	85.9	73	130				
1,1,2,2-Tetrachloroethane	0.0093	0.0010	0.010	0	93.2	70	124				
1,1,2-Trichloroethane	0.0098	0.0010	0.010	0	98.4	78	121				
1,1-Dichloroethane	0.0094	0.0010	0.010	0	93.7	76	125				
1,1-Dichloroethene	0.0091	0.0010	0.010	0	90.9	70	131				
1,2,3-Trichloropropane	0.0094	0.0010	0.010	0	93.7	73	125				
1,2-Dibromo-3-chloropropane	0.011	0.0050	0.010	0	111	61	132				
1,2-Dibromoethane	0.0099	0.0010	0.010	0	98.6	78	122				
1,2-Dichloroethane	0.0098	0.0010	0.010	0	97.6	73	128				
1,2-Dichloropropane	0.0095	0.0010	0.010	0	95.0	76	123				
2-Butanone [MEK]	0.011	0.020	0.010	0	111	51	148				J
2-Hexanone	0.0075	0.0050	0.010	0	75.2	53	145				
Acetone	0.0054	0.010	0.010	0	54.3	36	164				JZ
Benzene	0.0092	0.0010	0.010	0	92.1	77	121				
Bromodichloromethane	0.0095	0.0010	0.010	0	95.1	75	127				
Bromoform	0.0072	0.0010	0.010	0	71.6	67	132				
Carbon disulfide	0.0094	0.0010	0.010	0	93.8	63	132				
Carbon tetrachloride	0.0090	0.0010	0.010	0	90.4	70	135				
Chlorobenzene	0.0091	0.0010	0.010	0	91.3	79	120				
Chlorodibromomethane	0.0076	0.0010	0.010	0	76.3	74	126				
Chloroethane	0.0096	0.0020	0.010	0	96.2	59	139				
Chloroform	0.0090	0.0010	0.010	0	90.0	78	123				
Chloromethane	0.010	0.0010	0.010	0	104	50	136				
cis-1,2-Dichloroethene	0.0090	0.0010	0.010	0	90.4	77	123				
cis-1,3-Dichloropropene	0.0074	0.0010	0.010	0	73.9	74	126				Q
Dichlorodifluoromethane [Freon-12]	0.012	0.0010	0.010	0	116	29	149				
Ethylbenzene	0.0086	0.0010	0.010	0	86.4	76	122				
Methylene chloride	0.013	0.0050	0.010	0	130	70	128				QB
Styrene	0.0073	0.0010	0.010	0	73.1	76	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86936

Sample ID:	VOA10 LCS 062316	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	86936
Client ID:	LCSS	Batch ID:	R86936	TestNo:	SW8260B			Analysis Date:	6/23/2016	SeqNo:	1686684

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0088	0.0010	0.010	0	88.2	73	128				
Toluene	0.0085	0.0010	0.010	0	84.5	77	121				
trans-1,2-Dichloroethene	0.0096	0.0010	0.010	0	95.5	74	125				
trans-1,3-Dichloropropene	0.0074	0.0010	0.010	0	73.9	71	130				
Trichloroethene	0.0092	0.0010	0.010	0	92.0	77	123				
Trichlorofluoromethane [Freon-11]	0.0080	0.0010	0.010	0	80.1	62	140				
Vinyl acetate	0.011	0.0050	0.010	0	115	50	151				Z
Vinyl chloride	0.010	0.00080	0.010	0	102	56	135				
Xylene (Total)	0.024	0.0030	0.030	0	81.5	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		95.3	79	119				
Surr: Dibromofluoromethane	56		60.00		92.5	78	119				
Surr: Toluene-d8	55		60.00		91.9	85	116				

Sample ID:	VOA10 LCSD 06231	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	86936
Client ID:	LCSS02	Batch ID:	R86936	TestNo:	SW8260B			Analysis Date:	6/23/2016	SeqNo:	1686685

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0093	0.0010	0.010	0	93.0	78	125	0.0093	0.429	25	
1,1,1-Trichloroethane	0.0086	0.0010	0.010	0	85.8	73	130	0.0086	0.116	25	
1,1,2,2-Tetrachloroethane	0.0094	0.0010	0.010	0	94.1	70	124	0.0093	0.961	25	
1,1,2-Trichloroethane	0.0093	0.0010	0.010	0	92.8	78	121	0.0098	5.86	25	
1,1-Dichloroethane	0.0093	0.0010	0.010	0	92.6	76	125	0.0094	1.18	25	
1,1-Dichloroethene	0.0087	0.0010	0.010	0	87.4	70	131	0.0091	3.93	25	
1,2,3-Trichloropropane	0.010	0.0010	0.010	0	104	73	125	0.0094	10.0	25	
1,2-Dibromo-3-chloropropane	0.0099	0.0050	0.010	0	99.2	61	132	0.011	11.2	25	
1,2-Dibromoethane	0.0092	0.0010	0.010	0	91.7	78	122	0.0099	7.25	25	
1,2-Dichloroethane	0.0092	0.0010	0.010	0	92.2	73	128	0.0098	5.69	25	
1,2-Dichloropropane	0.0091	0.0010	0.010	0	91.2	76	123	0.0095	4.08	25	
2-Butanone [MEK]	0.020	0.020	0.010	0	0	51	148	0.011	200	25	RQU
2-Hexanone	0.0071	0.0050	0.010	0	70.6	53	145	0.0075	6.31	25	
Acetone	0.0047	0.010	0.010	0	47.2	36	164	0.0054	14.0	25	JZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86936

Sample ID:	VOA10 LCSD 06231	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	86936
Client ID:	LCSS02	Batch ID:	R86936	TestNo:	SW8260B			Analysis Date:	6/23/2016	SeqNo:	1686685

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0093	0.0010	0.010	0	92.9	77	121	0.0092	0.865	25	
Bromodichloromethane	0.0095	0.0010	0.010	0	94.9	75	127	0.0095	0.211	25	
Bromoform	0.0072	0.0010	0.010	0	71.6	67	132	0.0072	0	25	
Carbon disulfide	0.0092	0.0010	0.010	0	91.9	63	132	0.0094	2.05	25	
Carbon tetrachloride	0.0090	0.0010	0.010	0	89.7	70	135	0.0090	0.777	25	
Chlorobenzene	0.0090	0.0010	0.010	0	90.1	79	120	0.0091	1.32	25	
Chlorodibromomethane	0.0074	0.0010	0.010	0	74.4	74	126	0.0076	2.52	25	
Chloroethane	0.0095	0.0020	0.010	0	95.2	59	139	0.0096	1.04	25	
Chloroform	0.0092	0.0010	0.010	0	92.0	78	123	0.0090	2.20	25	
Chloromethane	0.010	0.0010	0.010	0	104	50	136	0.010	0.384	25	
cis-1,2-Dichloroethene	0.0087	0.0010	0.010	0	87.0	77	123	0.0090	3.83	25	
cis-1,3-Dichloropropene	0.0073	0.0010	0.010	0	73.0	74	126	0.0074	1.23	25	Q
Dichlorodifluoromethane [Freon-12]	0.012	0.0010	0.010	0	115	29	149	0.012	1.04	25	
Ethylbenzene	0.0088	0.0010	0.010	0	87.8	76	122	0.0086	1.61	25	
Methylene chloride	0.013	0.0050	0.010	0	126	70	128	0.013	3.12	25	
Styrene	0.0076	0.0010	0.010	0	76.1	76	124	0.0073	4.02	25	
Tetrachloroethene	0.0088	0.0010	0.010	0	87.6	73	128	0.0088	0.683	25	
Toluene	0.0086	0.0010	0.010	0	85.7	77	121	0.0085	1.41	25	
trans-1,2-Dichloroethene	0.0096	0.0010	0.010	0	96.3	74	125	0.0096	0.834	25	
trans-1,3-Dichloropropene	0.0071	0.0010	0.010	0	70.6	71	130	0.0074	4.57	25	Q
Trichloroethene	0.0090	0.0010	0.010	0	90.1	77	123	0.0092	2.09	25	
Trichlorofluoromethane [Freon-11]	0.0090	0.0010	0.010	0	89.9	62	140	0.0080	11.5	25	
Vinyl acetate	0.010	0.0050	0.010	0	105	50	151	0.011	9.38	25	Z
Vinyl chloride	0.010	0.00080	0.010	0	102	56	135	0.010	0.0984	25	
Xylene (Total)	0.025	0.0030	0.030	0	82.5	78	124	0.024	1.26	25	
Surr: 4-Bromofluorobenzene	57		60.00		95.0	79	119		0	25	
Surr: Dibromofluoromethane	55		60.00		91.3	78	119		0	25	
Surr: Toluene-d8	55		60.00		91.1	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R86936

Sample ID:	VOA10 MBLK 06231	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/23/2016	RunNo:	86936
Client ID:	PBS	Batch ID:	R86936	TestNo:	SW8260B			Analysis Date:	6/23/2016	SeqNo:	1686687

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0010	0.0010									U
1,1,1-Trichloroethane	0.0010	0.0010									U
1,1,2,2-Tetrachloroethane	0.0010	0.0010									U
1,1,2-Trichloroethane	0.0010	0.0010									U
1,1-Dichloroethane	0.0010	0.0010									U
1,1-Dichloroethene	0.0010	0.0010									U
1,2,3-Trichloropropane	0.0010	0.0010									U
1,2-Dibromo-3-chloropropane	0.0050	0.0050									U
1,2-Dibromoethane	0.0010	0.0010									U
1,2-Dichloroethane	0.0010	0.0010									U
1,2-Dichloropropane	0.0010	0.0010									U
2-Butanone [MEK]	0.020	0.020									U
2-Hexanone	0.0050	0.0050									U
Acetone	0.010	0.010									UZ
Benzene	0.0010	0.0010									U
Bromodichloromethane	0.0010	0.0010									U
Bromoform	0.0010	0.0010									U
Carbon disulfide	0.0010	0.0010									U
Carbon tetrachloride	0.0010	0.0010									U
Chlorobenzene	0.0010	0.0010									U
Chlorodibromomethane	0.0010	0.0010									U
Chloroethane	0.0020	0.0020									U
Chloroform	0.0010	0.0010									U
Chloromethane	0.0010	0.0010									U
cis-1,2-Dichloroethene	0.0010	0.0010									U
cis-1,3-Dichloropropene	0.0010	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.0010	0.0010									U
Ethylbenzene	0.0010	0.0010									U
Methylene chloride	0.0045	0.0050									JT
Styrene	0.0010	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86936**

Sample ID:	**VOA10 MBLK 06231**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/23/2016**	RunNo:	**86936**
Client ID:	**PBS**	Batch ID:	**R86936**	TestNo:	**SW8260B**			Analysis Date:	**6/23/2016**	SeqNo:	**1686687**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0010	0.0010									U
Toluene	0.0010	0.0010									U
trans-1,2-Dichloroethene	0.0010	0.0010									U
trans-1,3-Dichloropropene	0.0010	0.0010									U
Trichloroethene	0.0010	0.0010									U
Trichlorofluoromethane [Freon-11]	0.0010	0.0010									U
Vinyl acetate	0.0050	0.0050									UZ
Vinyl chloride	0.00080	0.00080									U
Xylene (Total)	0.0030	0.0030									U
Surr: 4-Bromofluorobenzene	43		50.00		85.7	79	119				
Surr: Dibromofluoromethane	42		50.00		84.8	78	119				
Surr: Toluene-d8	42		50.00		84.9	85	116				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R86950**

Sample ID:	**1606353-017A DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/24/2016**	RunNo:	**86950**
Client ID:	**ZZZZZZ**	Batch ID:	**R86950**	TestNo:	**D2216**			Analysis Date:	**6/24/2016**	SeqNo:	**1686952**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	42	1.0						41.46	1.12	20	

Sample ID:	**1606832-010A DUP**	Samp Type:	**DUP**	Test Code:	**PMOIST**	Units:	**wt%**	Prep Date:	**6/24/2016**	RunNo:	**86950**
Client ID:	**ZZZZZZ**	Batch ID:	**R86950**	TestNo:	**D2216**			Analysis Date:	**6/24/2016**	SeqNo:	**1686986**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Percent Moisture	11	1.0						10.61	1.10	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	VOA11B LCS 06291	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87053
Client ID:	LCSS	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688792

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.011	0.0010	0.010	0	106	78	125				
1,1,1-Trichloroethane	0.0099	0.0010	0.010	0	98.9	73	130				
1,1,2,2-Tetrachloroethane	0.011	0.0010	0.010	0	111	70	124				
1,1,2-Trichloroethane	0.010	0.0010	0.010	0	101	78	121				
1,1-Dichloroethane	0.010	0.0010	0.010	0	103	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	103	70	131				
1,2,3-Trichloropropane	0.012	0.0010	0.010	0	116	73	125				
1,2-Dibromo-3-chloropropane	0.035	0.0050	0.010	0	351	61	132				Q
1,2-Dibromoethane	0.010	0.0010	0.010	0	101	78	122				
1,2-Dichloroethane	0.010	0.0010	0.010	0	104	73	128				
1,2-Dichloropropane	0.010	0.0010	0.010	0	101	76	123				
2-Butanone [MEK]	0.026	0.020	0.010	0	259	51	148				Q
2-Hexanone	0.15	0.0050	0.010	0	1,450	53	145				QZ
Acetone	0.010	0.010	0.010	0	0	36	164				QU
Benzene	0.010	0.00060	0.010	0	103	77	121				
Bromodichloromethane	0.011	0.0010	0.010	0	111	75	127				
Bromoform	0.010	0.0010	0.010	0	103	67	132				
Carbon disulfide	0.010	0.0010	0.010	0	105	63	132				
Carbon tetrachloride	0.010	0.0010	0.010	0	104	70	135				
Chlorobenzene	0.010	0.0010	0.010	0	100	79	120				
Chlorodibromomethane	0.0080	0.0010	0.010	0	80.1	74	126				
Chloroethane	0.012	0.0020	0.010	0	115	59	139				
Chloroform	0.010	0.0010	0.010	0	101	78	123				
Chloromethane	0.013	0.0010	0.010	0	132	50	136				Z
cis-1,2-Dichloroethene	0.010	0.0010	0.010	0	102	77	123				
cis-1,3-Dichloropropene	0.0099	0.0010	0.010	0	99.0	74	126				
Dichlorodifluoromethane [Freon-12]	0.014	0.0010	0.010	0	138	29	149				Z
Ethylbenzene	0.0097	0.0010	0.010	0	97.1	76	122				
Methylene chloride	0.013	0.0050	0.010	0	126	70	128				
Styrene	0.0089	0.0010	0.010	0	89.2	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	VOA11B LCS 06291	Samp Type:	LCS	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87053
Client ID:	LCSS	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688792

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0098	0.0010	0.010	0	98.4	73	128				
Toluene	0.0095	0.0010	0.010	0	95.1	77	121				
trans-1,2-Dichloroethene	0.010	0.0010	0.010	0	104	74	125				
trans-1,3-Dichloropropene	0.0093	0.0010	0.010	0	93.4	71	130				
Trichloroethene	0.0098	0.0010	0.010	0	98.5	77	123				
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	107	62	140				
Vinyl acetate	0.011	0.0050	0.010	0	111	50	151				Z
Vinyl chloride	0.012	0.00080	0.010	0	119	56	135				
Xylene (Total)	0.029	0.0030	0.030	0	96.4	78	124				
Surr: 4-Bromofluorobenzene	57		60.00		94.3	79	119				
Surr: Dibromofluoromethane	57		60.00		95.7	78	119				
Surr: Toluene-d8	56		60.00		93.6	85	116				

Sample ID:	VOA11B LCSD 0629	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87053
Client ID:	LCSS02	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688793

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.010	0.0010	0.010	0	105	78	125	0.011	0.857	25	
1,1,1-Trichloroethane	0.010	0.0010	0.010	0	102	73	130	0.0099	2.79	25	
1,1,2,2-Tetrachloroethane	0.011	0.0010	0.010	0	114	70	124	0.011	3.20	25	
1,1,2-Trichloroethane	0.011	0.0010	0.010	0	110	78	121	0.010	8.65	25	
1,1-Dichloroethane	0.011	0.0010	0.010	0	105	76	125	0.010	1.82	25	
1,1-Dichloroethene	0.011	0.0010	0.010	0	107	70	131	0.010	3.92	25	
1,2,3-Trichloropropane	0.011	0.0010	0.010	0	111	73	125	0.012	4.06	25	
1,2-Dibromo-3-chloropropane	0.018	0.0050	0.010	0	182	61	132	0.035	63.3	25	RQ
1,2-Dibromoethane	0.011	0.0010	0.010	0	113	78	122	0.010	10.7	25	
1,2-Dichloroethane	0.011	0.0010	0.010	0	109	73	128	0.010	3.94	25	
1,2-Dichloropropane	0.010	0.0010	0.010	0	103	76	123	0.010	2.15	25	
2-Butanone [MEK]	0.016	0.020	0.010	0	159	51	148	0.026	47.9	25	JRQ
2-Hexanone	0.12	0.0050	0.010	0	1,230	53	145	0.15	16.5	25	QZ
Acetone	0.010	0.010	0.010	0	0	36	164	0	0	25	QU

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	VOA11B LCSD 0629	Samp Type:	LCSD	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87053
Client ID:	LCSS02	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688793

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.011	0.0010	0.010	0	107	77	121	0.010	4.67	25	
Bromodichloromethane	0.011	0.0010	0.010	0	110	75	127	0.011	0.726	25	
Bromoform	0.011	0.0010	0.010	0	110	67	132	0.010	6.67	25	
Carbon disulfide	0.011	0.0010	0.010	0	107	63	132	0.010	2.26	25	
Carbon tetrachloride	0.011	0.0010	0.010	0	108	70	135	0.010	3.21	25	
Chlorobenzene	0.010	0.0010	0.010	0	101	79	120	0.010	0.398	25	
Chlorodibromomethane	0.0084	0.0010	0.010	0	84.2	74	126	0.0080	4.99	25	
Chloroethane	0.012	0.0020	0.010	0	118	59	139	0.012	2.82	25	
Chloroform	0.010	0.0010	0.010	0	105	78	123	0.010	3.20	25	
Chloromethane	0.014	0.0010	0.010	0	142	50	136	0.013	6.86	25	QZ
cis-1,2-Dichloroethene	0.011	0.0010	0.010	0	105	77	123	0.010	2.89	25	
cis-1,3-Dichloropropene	0.010	0.0010	0.010	0	102	74	126	0.0099	3.38	25	
Dichlorodifluoromethane [Freon-12]	0.014	0.0010	0.010	0	140	29	149	0.014	1.23	25	Z
Ethylbenzene	0.0098	0.0010	0.010	0	98.2	76	122	0.0097	1.13	25	
Methylene chloride	0.016	0.0050	0.010	0	155	70	128	0.013	20.7	25	Q
Styrene	0.0084	0.0010	0.010	0	84.3	76	124	0.0089	5.65	25	
Tetrachloroethene	0.010	0.0010	0.010	0	99.7	73	128	0.0098	1.31	25	
Toluene	0.0099	0.0010	0.010	0	99.3	77	121	0.0095	4.32	25	
trans-1,2-Dichloroethene	0.011	0.0010	0.010	0	108	74	125	0.010	3.11	25	
trans-1,3-Dichloropropene	0.0099	0.0010	0.010	0	98.8	71	130	0.0093	5.62	25	
Trichloroethene	0.010	0.0010	0.010	0	102	77	123	0.0098	3.39	25	
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	110	62	140	0.011	2.86	25	
Vinyl acetate	0.012	0.0050	0.010	0	122	50	151	0.011	9.54	25	Z
Vinyl chloride	0.012	0.00080	0.010	0	123	56	135	0.012	3.07	25	
Xylene (Total)	0.029	0.0030	0.030	0	97.6	78	124	0.029	1.24	25	
Surr: 4-Bromofluorobenzene	57		60.00		94.5	79	119		0	25	
Surr: Dibromofluoromethane	59		60.00		98.9	78	119		0	25	
Surr: Toluene-d8	57		60.00		94.8	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R87053**

Sample ID:	**VOA11B MBLK 0629**	Samp Type:	**MBLK**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg**	Prep Date:	**6/29/2016**	RunNo:	**87053**
Client ID:	**PBS**	Batch ID:	**R87053**	TestNo:	**SW8260B**			Analysis Date:	**6/29/2016**	SeqNo:	**1688794**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0010	0.0010									U
1,1,1-Trichloroethane	0.0010	0.0010									U
1,1,2,2-Tetrachloroethane	0.0010	0.0010									U
1,1,2-Trichloroethane	0.0010	0.0010									U
1,1-Dichloroethane	0.0010	0.0010									U
1,1-Dichloroethene	0.0010	0.0010									U
1,2,3-Trichloropropane	0.0010	0.0010									U
1,2-Dibromo-3-chloropropane	0.0050	0.0050									U
1,2-Dibromoethane	0.0010	0.0010									U
1,2-Dichloroethane	0.0010	0.0010									U
1,2-Dichloropropane	0.0010	0.0010									U
2-Butanone [MEK]	0.020	0.020									U
2-Hexanone	0.064	0.0050									TZ
Acetone	0.010	0.010									U
Benzene	0.0010	0.0010									U
Bromodichloromethane	0.0010	0.0010									U
Bromoform	0.0010	0.0010									U
Carbon disulfide	0.0010	0.0010									U
Carbon tetrachloride	0.0010	0.0010									U
Chlorobenzene	0.0010	0.0010									U
Chlorodibromomethane	0.0010	0.0010									U
Chloroethane	0.0020	0.0020									U
Chloroform	0.0010	0.0010									U
Chloromethane	0.0012	0.0010									TZ
cis-1,2-Dichloroethene	0.0010	0.0010									U
cis-1,3-Dichloropropene	0.0010	0.0010									U
Dichlorodifluoromethane [Freon-12]	0.0010	0.0010									UZ
Ethylbenzene	0.0010	0.0010									U
Methylene chloride	0.0019	0.0050									J
Styrene	0.0010	0.0010									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	VOA11B MBLK 0629	Samp Type:	MBLK	Test Code:	SW_8260S-LL	Units:	mg/Kg	Prep Date:	6/29/2016	RunNo:	87053
Client ID:	PBS	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688794

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0010	0.0010									U
Toluene	0.0010	0.0010									U
trans-1,2-Dichloroethene	0.0010	0.0010									U
trans-1,3-Dichloropropene	0.0010	0.0010									U
Trichloroethene	0.0010	0.0010									U
Trichlorofluoromethane [Freon-11]	0.0010	0.0010									U
Vinyl acetate	0.0050	0.0050									UZ
Vinyl chloride	0.00080	0.00080									U
Xylene (Total)	0.0030	0.0030									U
Surr: 4-Bromofluorobenzene	41		50.00		82.7	79	119				
Surr: Dibromofluoromethane	47		50.00		93.2	78	119				
Surr: Toluene-d8	44		50.00		87.2	85	116				

Sample ID:	1606652-005AMS	Samp Type:	MS	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	201-SB01-25MS1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688806

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0074	0.00086	0.0086	0	85.6	78	125				
1,1,1-Trichloroethane	0.0073	0.00086	0.0086	0	84.3	73	130				
1,1,2,2-Tetrachloroethane	0.0097	0.00086	0.0086	0	112	70	124				
1,1,2-Trichloroethane	0.0088	0.00086	0.0086	0	102	78	121				
1,1-Dichloroethane	0.0076	0.00086	0.0086	0	88.6	76	125				
1,1-Dichloroethene	0.0075	0.00086	0.0086	0	86.6	70	131				
1,2,3-Trichloropropane	0.010	0.00086	0.0086	0	119	73	125				
1,2-Dibromo-3-chloropropane	0.0080	0.0043	0.0086	0	93.0	61	132				
1,2-Dibromoethane	0.0094	0.00086	0.0086	0	109	78	122				
1,2-Dichloroethane	0.0092	0.00086	0.0086	0	107	73	128				
1,2-Dichloropropane	0.0080	0.00086	0.0086	0	92.7	76	123				
2-Butanone [MEK]	0.013	0.017	0.0086	0	154	51	148				JQ
2-Hexanone	0.0043	0.0043	0.0086	0	0	53	145				QUBZ
Acetone	0.0090	0.0086	0.0086	0.0023	77.2	36	164				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	1606652-005AMS	Samp Type:	MS	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	201-SB01-25MS1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688806

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0078	0.00086	0.0086	0	91.0	77	121				
Bromodichloromethane	0.0080	0.00086	0.0086	0	92.9	75	127				
Bromoform	0.0083	0.00086	0.0086	0	96.8	67	132				
Carbon disulfide	0.0080	0.00086	0.0086	0	92.6	63	132				
Carbon tetrachloride	0.0075	0.00086	0.0086	0	87.0	70	135				
Chlorobenzene	0.0069	0.00086	0.0086	0	80.4	79	120				
Chlorodibromomethane	0.0065	0.00086	0.0086	0	75.1	74	126				
Chloroethane	0.0084	0.0017	0.0086	0	97.6	59	139				
Chloroform	0.0079	0.00086	0.0086	0	91.6	78	123				
Chloromethane	0.011	0.00086	0.0086	0.0014	108	50	136				BZ
cis-1,2-Dichloroethene	0.0077	0.00086	0.0086	0	89.4	77	123				
cis-1,3-Dichloropropene	0.0076	0.00086	0.0086	0	88.2	74	126				
Dichlorodifluoromethane [Freon-12]	0.011	0.00086	0.0086	0	122	29	149				Z
Ethylbenzene	0.0068	0.00086	0.0086	0	79.2	76	122				
Methylene chloride	0.012	0.0043	0.0086	0.0032	102	70	128				
Styrene	0.0053	0.00086	0.0086	0	61.2	76	124				Q
Tetrachloroethene	0.0067	0.00086	0.0086	0	77.8	73	128				
Toluene	0.0071	0.00086	0.0086	0	82.5	77	121				
trans-1,2-Dichloroethene	0.0078	0.00086	0.0086	0	90.6	74	125				
trans-1,3-Dichloropropene	0.0072	0.00086	0.0086	0	83.0	71	130				
Trichloroethene	0.0074	0.00086	0.0086	0	85.7	77	123				
Trichlorofluoromethane [Freon-11]	0.0092	0.00086	0.0086	0	107	62	140				
Vinyl acetate	0.0022	0.0043	0.0086	0	25.0	50	151				JQZ
Vinyl chloride	0.0088	0.00069	0.0086	0	102	56	135				
Xylene (Total)	0.020	0.0026	0.026	0	78.0	78	124				Q
Surr: 4-Bromofluorobenzene	49		51.72		94.0	79	119				
Surr: Dibromofluoromethane	51		51.72		97.8	78	119				
Surr: Toluene-d8	48		51.72		91.9	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	1606652-005AMSD	Samp Type:	MSD	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	201-SB01-25SD1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688807

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0083	0.00097	0.0097	0	85.6	78	125	0.0074	11.4	25	
1,1,1-Trichloroethane	0.0081	0.00097	0.0097	0	84.0	73	130	0.0073	11.0	25	
1,1,2,2-Tetrachloroethane	0.011	0.00097	0.0097	0	113	70	124	0.0097	11.6	25	
1,1,2-Trichloroethane	0.010	0.00097	0.0097	0	104	78	121	0.0088	13.2	25	
1,1-Dichloroethane	0.0089	0.00097	0.0097	0	92.1	76	125	0.0076	15.2	25	
1,1-Dichloroethene	0.0085	0.00097	0.0097	0	87.7	70	131	0.0075	12.6	25	
1,2,3-Trichloropropane	0.0098	0.00097	0.0097	0	101	73	125	0.010	4.54	25	
1,2-Dibromo-3-chloropropane	0.012	0.0048	0.0097	0	125	61	132	0.0080	40.4	25	R
1,2-Dibromoethane	0.010	0.00097	0.0097	0	106	78	122	0.0094	7.93	25	
1,2-Dichloroethane	0.010	0.00097	0.0097	0	106	73	128	0.0092	10.1	25	
1,2-Dichloropropane	0.0089	0.00097	0.0097	0	92.5	76	123	0.0080	11.1	25	
2-Butanone [MEK]	0.016	0.019	0.0097	0	163	51	148	0.013	16.9	25	JQ
2-Hexanone	0.0048	0.0048	0.0097	0	0	53	145	0	0	25	QUBZ
Acetone	0.0068	0.0097	0.0097	0.0023	46.3	36	164	0.0090	27.8	25	JR
Benzene	0.0088	0.00097	0.0097	0	90.6	77	121	0.0078	10.9	25	
Bromodichloromethane	0.0090	0.00097	0.0097	0	93.2	75	127	0.0080	11.7	25	
Bromoform	0.0096	0.00097	0.0097	0	99.1	67	132	0.0083	13.7	25	
Carbon disulfide	0.0087	0.00097	0.0097	0	90.3	63	132	0.0080	8.85	25	
Carbon tetrachloride	0.0082	0.00097	0.0097	0	85.2	70	135	0.0075	9.28	25	
Chlorobenzene	0.0078	0.00097	0.0097	0	80.8	79	120	0.0069	11.9	25	
Chlorodibromomethane	0.0073	0.00097	0.0097	0	75.9	74	126	0.0065	12.4	25	
Chloroethane	0.0094	0.0019	0.0097	0	96.9	59	139	0.0084	10.6	25	
Chloroform	0.0086	0.00097	0.0097	0	89.2	78	123	0.0079	8.72	25	
Chloromethane	0.012	0.00097	0.0097	0.0014	107	50	136	0.011	9.25	25	BZ
cis-1,2-Dichloroethene	0.0085	0.00097	0.0097	0	88.4	77	123	0.0077	10.2	25	
cis-1,3-Dichloropropene	0.0085	0.00097	0.0097	0	87.6	74	126	0.0076	10.7	25	
Dichlorodifluoromethane [Freon-12]	0.011	0.00097	0.0097	0	117	29	149	0.011	7.61	25	Z
Ethylbenzene	0.0073	0.00097	0.0097	0	75.9	76	122	0.0068	7.12	25	Q
Methylene chloride	0.013	0.0048	0.0097	0.0032	102	70	128	0.012	7.80	25	
Styrene	0.0058	0.00097	0.0097	0	60.3	76	124	0.0053	9.89	25	Q

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	1606652-005AMSD	Samp Type:	MSD	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	201-SB01-25SD1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688807

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0075	0.00097	0.0097	0	77.2	73	128	0.0067	10.6	25	
Toluene	0.0077	0.00097	0.0097	0	79.8	77	121	0.0071	8.04	25	
trans-1,2-Dichloroethene	0.0086	0.00097	0.0097	0	89.1	74	125	0.0078	9.70	25	
trans-1,3-Dichloropropene	0.0085	0.00097	0.0097	0	88.0	71	130	0.0072	17.2	25	
Trichloroethene	0.0079	0.00097	0.0097	0	82.2	77	123	0.0074	7.20	25	
Trichlorofluoromethane [Freon-11]	0.011	0.00097	0.0097	0	116	62	140	0.0092	19.1	25	
Vinyl acetate	0.015	0.0048	0.0097	0	152	50	151	0.0022	149	25	RQZ
Vinyl chloride	0.0096	0.00077	0.0097	0	99.9	56	135	0.0088	9.58	25	
Xylene (Total)	0.022	0.0029	0.029	0	75.6	78	124	0.020	8.29	25	Q
Surr: 4-Bromofluorobenzene	53		57.95		92.3	79	119		0	25	
Surr: Dibromofluoromethane	56		57.95		96.9	78	119		0	25	
Surr: Toluene-d8	53		57.95		92.0	85	116		0	25	

Sample ID:	1606652-014AMS	Samp Type:	MS	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	203-SB05-21MS1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688808

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0076	0.0010	0.010	0	75.5	78	125				Q
1,1,1-Trichloroethane	0.0088	0.0010	0.010	0	87.3	73	130				
1,1,2,2-Tetrachloroethane	0.019	0.0010	0.010	0	189	70	124				Q
1,1,2-Trichloroethane	0.013	0.0010	0.010	0	129	78	121				Q
1,1-Dichloroethane	0.011	0.0010	0.010	0	106	76	125				
1,1-Dichloroethene	0.010	0.0010	0.010	0	100	70	131				
1,2,3-Trichloropropane	0.021	0.0010	0.010	0	211	73	125				Q
1,2-Dibromo-3-chloropropane	0.031	0.0051	0.010	0	307	61	132				Q
1,2-Dibromoethane	0.014	0.0010	0.010	0	143	78	122				Q
1,2-Dichloroethane	0.013	0.0010	0.010	0	131	73	128				Q
1,2-Dichloropropane	0.011	0.0010	0.010	0	104	76	123				
2-Butanone [MEK]	0.052	0.020	0.010	0	515	51	148				Q
2-Hexanone	0.12	0.0051	0.010	0	1,190	53	145				QBZ
Acetone	0.15	0.010	0.010	0	1,470	36	164				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	**1606652-014AMS**	Samp Type:	**MS**	Test Code:	**SW_8260S-LL**	Units:	**mg/Kg-dry**	Prep Date:	**6/30/2016**	RunNo:	**87053**
Client ID:	**203-SB05-21MS1**	Batch ID:	**R87053**	TestNo:	**SW8260B**			Analysis Date:	**6/30/2016**	SeqNo:	**1688808**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.012	0.0010	0.010	0.029	-175	77	121				Q
Bromodichloromethane	0.011	0.0010	0.010	0	105	75	127				
Bromoform	0.011	0.0010	0.010	0	112	67	132				
Carbon disulfide	0.010	0.0010	0.010	0	99.2	63	132				
Carbon tetrachloride	0.0086	0.0010	0.010	0	84.9	70	135				
Chlorobenzene	0.0083	0.0010	0.010	0	82.4	79	120				
Chlorodibromomethane	0.0084	0.0010	0.010	0	83.1	74	126				
Chloroethane	0.013	0.0020	0.010	0	127	59	139				
Chloroform	0.011	0.0010	0.010	0	104	78	123				
Chloromethane	0.018	0.0010	0.010	0.0015	159	50	136				QBZ
cis-1,2-Dichloroethene	0.010	0.0010	0.010	0.0025	78.9	77	123				
cis-1,3-Dichloropropene	0.0089	0.0010	0.010	0	87.9	74	126				
Dichlorodifluoromethane [Freon-12]	0.015	0.0010	0.010	0	144	29	149				Z
Ethylbenzene	0.037	0.0010	0.010	0.63	-5,830	76	122				Q
Methylene chloride	0.015	0.0051	0.010	0	148	70	128				Q
Styrene	0.0064	0.0010	0.010	0	63.0	76	124				Q
Tetrachloroethene	0.0076	0.0010	0.010	0	75.4	73	128				
Toluene	0.0088	0.0010	0.010	0	86.7	77	121				
trans-1,2-Dichloroethene	0.0097	0.0010	0.010	0	95.7	74	125				
trans-1,3-Dichloropropene	0.0086	0.0010	0.010	0	84.9	71	130				
Trichloroethene	0.0092	0.0010	0.010	0	90.6	77	123				
Trichlorofluoromethane [Freon-11]	0.011	0.0010	0.010	0	104	62	140				
Vinyl acetate	0.0038	0.0051	0.010	0	37.2	50	151				JQZ
Vinyl chloride	0.012	0.00081	0.010	0	121	56	135				
Xylene (Total)	0.037	0.0030	0.030	0.53	-1,630	78	124				Q
Surr: 4-Bromofluorobenzene	84		60.75		138	79	119				Q
Surr: Dibromofluoromethane	61		60.75		101	78	119				
Surr: Toluene-d8	57		60.75		93.9	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	1606652-014AMSD	Samp Type:	MSD	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	203-SB05-21SD1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688809

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0098	0.0011	0.011	0	88.4	78	125	0.0076	24.4	25	
1,1,1-Trichloroethane	0.0089	0.0011	0.011	0	80.8	73	130	0.0088	0.964	25	
1,1,2,2-Tetrachloroethane	0.11	0.0011	0.011	0	1,030	70	124	0.019	142	25	RQ
1,1,2-Trichloroethane	0.013	0.0011	0.011	0	115	78	121	0.013	3.37	25	
1,1-Dichloroethane	0.0098	0.0011	0.011	0	88.3	76	125	0.011	9.94	25	
1,1-Dichloroethene	0.0094	0.0011	0.011	0	84.9	70	131	0.010	7.66	25	
1,2,3-Trichloropropane	0.031	0.0011	0.011	0	278	73	125	0.021	35.7	25	RQ
1,2-Dibromo-3-chloropropane	0.073	0.0055	0.011	0	659	61	132	0.031	80.4	25	RQ
1,2-Dibromoethane	0.014	0.0011	0.011	0	127	78	122	0.014	3.48	25	Q
1,2-Dichloroethane	0.013	0.0011	0.011	0	115	73	128	0.013	4.38	25	
1,2-Dichloropropane	0.011	0.0011	0.011	0	95.3	76	123	0.011	0.323	25	
2-Butanone [MEK]	0.025	0.022	0.011	0	227	51	148	0.052	70.0	25	RQ
2-Hexanone	0.30	0.0055	0.011	0	2,670	53	145	0.12	84.1	25	JRQBZ
Acetone	0.017	0.011	0.011	0	152	36	164	0.15	159	25	R
Benzene	0.012	0.0011	0.011	0.029	-154	77	121	0.012	5.87	25	Q
Bromodichloromethane	0.018	0.0011	0.011	0	167	75	127	0.011	53.6	25	RQ
Bromoform	0.013	0.0011	0.011	0	118	67	132	0.011	14.0	25	
Carbon disulfide	0.0094	0.0011	0.011	0	85.2	63	132	0.010	6.51	25	
Carbon tetrachloride	0.0087	0.0011	0.011	0	78.6	70	135	0.0086	0.991	25	
Chlorobenzene	0.012	0.0011	0.011	0	110	79	120	0.0083	37.2	25	R
Chlorodibromomethane	0.0090	0.0011	0.011	0	81.8	74	126	0.0084	7.12	25	
Chloroethane	0.011	0.0022	0.011	0	97.9	59	139	0.013	17.4	25	
Chloroform	0.010	0.0011	0.011	0	91.3	78	123	0.011	4.71	25	
Chloromethane	0.014	0.0011	0.011	0.0015	114	50	136	0.018	22.4	25	BZ
cis-1,2-Dichloroethene	0.010	0.0011	0.011	0.0025	68.0	77	123	0.010	4.71	25	Q
cis-1,3-Dichloropropene	0.010	0.0011	0.011	0	92.6	74	126	0.0089	13.9	25	
Dichlorodifluoromethane [Freon-12]	0.013	0.0011	0.011	0	113	29	149	0.015	15.3	25	Z
Ethylbenzene	0.21	0.0011	0.011	0.63	-3,800	76	122	0.037	139	25	RQ
Methylene chloride	0.013	0.0055	0.011	0	120	70	128	0.015	12.0	25	
Styrene	0.0080	0.0011	0.011	0	72.6	76	124	0.0064	22.8	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	1606652-014AMSD	Samp Type:	MSD	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	203-SB05-21SD1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688809

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0077	0.0011	0.011	0	69.6	73	128	0.0076	0.697	25	Q
Toluene	0.0099	0.0011	0.011	0	89.4	77	121	0.0088	11.8	25	
trans-1,2-Dichloroethene	0.0099	0.0011	0.011	0	89.6	74	125	0.0097	2.11	25	
trans-1,3-Dichloropropene	0.0098	0.0011	0.011	0	89.1	71	130	0.0086	13.5	25	
Trichloroethene	0.0086	0.0011	0.011	0	78.0	77	123	0.0092	6.27	25	
Trichlorofluoromethane [Freon-11]	0.0098	0.0011	0.011	0	88.9	62	140	0.011	6.79	25	
Vinyl acetate	0.0023	0.0055	0.011	0	21.0	50	151	0.0038	47.5	25	JRQZ
Vinyl chloride	0.011	0.00088	0.011	0	102	56	135	0.012	8.34	25	
Xylene (Total)	0.13	0.0033	0.033	0.53	-1,200	78	124	0.037	113	25	RQ
Surr: 4-Bromofluorobenzene	230		66.28		354	79	119		0	25	Q
Surr: Dibromofluoromethane	65		66.28		98.7	78	119		0	25	
Surr: Toluene-d8	63		66.28		95.0	85	116		0	25	

Sample ID:	1606652-015AMS	Samp Type:	MS	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	H17-SB01-05MS1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688810

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0086	0.00098	0.0098	0	87.2	78	125				
1,1,1-Trichloroethane	0.0083	0.00098	0.0098	0	84.1	73	130				
1,1,2,2-Tetrachloroethane	0.012	0.00098	0.0098	0	121	70	124				
1,1,2-Trichloroethane	0.010	0.00098	0.0098	0	105	78	121				
1,1-Dichloroethane	0.0090	0.00098	0.0098	0	91.3	76	125				
1,1-Dichloroethene	0.0088	0.00098	0.0098	0	89.4	70	131				
1,2,3-Trichloropropane	0.012	0.00098	0.0098	0	126	73	125				Q
1,2-Dibromo-3-chloropropane	0.023	0.0049	0.0098	0	233	61	132				Q
1,2-Dibromoethane	0.011	0.00098	0.0098	0	116	78	122				
1,2-Dichloroethane	0.011	0.00098	0.0098	0	107	73	128				
1,2-Dichloropropane	0.0093	0.00098	0.0098	0	94.9	76	123				
2-Butanone [MEK]	0.017	0.020	0.0098	0	174	51	148				JQ
2-Hexanone	0.024	0.0049	0.0098	0	240	53	145				QBZ
Acetone	0.030	0.0098	0.0098	0.010	199	36	164				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	1606652-015AMS	Samp Type:	MS	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	H17-SB01-05MS1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688810

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.0089	0.00098	0.0098	0	89.9	77	121				
Bromodichloromethane	0.0094	0.00098	0.0098	0	95.5	75	127				
Bromoform	0.011	0.00098	0.0098	0	108	67	132				
Carbon disulfide	0.0085	0.00098	0.0098	0	86.7	63	132				
Carbon tetrachloride	0.0085	0.00098	0.0098	0	86.6	70	135				
Chlorobenzene	0.0082	0.00098	0.0098	0	82.9	79	120				
Chlorodibromomethane	0.0078	0.00098	0.0098	0	78.8	74	126				
Chloroethane	0.0089	0.0020	0.0098	0	90.8	59	139				
Chloroform	0.0090	0.00098	0.0098	0	91.1	78	123				
Chloromethane	0.012	0.00098	0.0098	0.0012	111	50	136				BZ
cis-1,2-Dichloroethene	0.0086	0.00098	0.0098	0	87.8	77	123				
cis-1,3-Dichloropropene	0.0093	0.00098	0.0098	0	94.3	74	126				
Dichlorodifluoromethane [Freon-12]	0.012	0.00098	0.0098	0	118	29	149				Z
Ethylbenzene	0.0081	0.00098	0.0098	0	82.7	76	122				
Methylene chloride	0.012	0.0049	0.0098	0.0012	110	70	128				
Styrene	0.0067	0.00098	0.0098	0	67.7	76	124				Q
Tetrachloroethene	0.0082	0.00098	0.0098	0	82.9	73	128				
Toluene	0.0084	0.00098	0.0098	0	85.0	77	121				
trans-1,2-Dichloroethene	0.0092	0.00098	0.0098	0	93.5	74	125				
trans-1,3-Dichloropropene	0.0087	0.00098	0.0098	0	87.9	71	130				
Trichloroethene	0.0085	0.00098	0.0098	0	86.4	77	123				
Trichlorofluoromethane [Freon-11]	0.0088	0.00098	0.0098	0	89.4	62	140				
Vinyl acetate	0.016	0.0049	0.0098	0	165	50	151				QZ
Vinyl chloride	0.0096	0.00079	0.0098	0	97.2	56	135				
Xylene (Total)	0.023	0.0030	0.030	0	79.3	78	124				
Surr: 4-Bromofluorobenzene	56		59.09		94.4	79	119				
Surr: Dibromofluoromethane	57		59.09		96.9	78	119				
Surr: Toluene-d8	53		59.09		90.5	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	1606652-015AMSD	Samp Type:	MSD	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	H17-SB01-05SD1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688811

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.0088	0.0011	0.011	0	84.1	78	125	0.0086	2.98	25	
1,1,1-Trichloroethane	0.0086	0.0011	0.011	0	81.8	73	130	0.0083	3.82	25	
1,1,2,2-Tetrachloroethane	0.011	0.0011	0.011	0	109	70	124	0.012	4.39	25	
1,1,2-Trichloroethane	0.010	0.0011	0.011	0	99.1	78	121	0.010	1.00	25	
1,1-Dichloroethane	0.0090	0.0011	0.011	0	85.7	76	125	0.0090	0.266	25	
1,1-Dichloroethene	0.0088	0.0011	0.011	0	83.2	70	131	0.0088	0.592	25	
1,2,3-Trichloropropane	0.010	0.0011	0.011	0	95.8	73	125	0.012	20.8	25	
1,2-Dibromo-3-chloropropane	0.017	0.0053	0.011	0	158	61	132	0.023	31.8	25	RQ
1,2-Dibromoethane	0.011	0.0011	0.011	0	107	78	122	0.011	1.21	25	
1,2-Dichloroethane	0.010	0.0011	0.011	0	99.6	73	128	0.011	0.290	25	
1,2-Dichloropropane	0.0091	0.0011	0.011	0	86.2	76	123	0.0093	3.02	25	
2-Butanone [MEK]	0.022	0.021	0.011	0	206	51	148	0.017	23.1	25	Q
2-Hexanone	0.023	0.0053	0.011	0	218	53	145	0.024	3.07	25	QBZ
Acetone	0.12	0.011	0.011	0.010	1,000	36	164	0.030	118	25	RQ
Benzene	0.0089	0.0011	0.011	0	84.7	77	121	0.0089	0.638	25	
Bromodichloromethane	0.0094	0.0011	0.011	0	89.1	75	127	0.0094	0.341	25	
Bromoform	0.010	0.0011	0.011	0	97.5	67	132	0.011	3.45	25	
Carbon disulfide	0.0087	0.0011	0.011	0	82.6	63	132	0.0085	1.75	25	
Carbon tetrachloride	0.0084	0.0011	0.011	0	80.0	70	135	0.0085	1.33	25	
Chlorobenzene	0.0076	0.0011	0.011	0	72.0	79	120	0.0082	7.50	25	Q
Chlorodibromomethane	0.0076	0.0011	0.011	0	71.9	74	126	0.0078	2.57	25	Q
Chloroethane	0.0096	0.0021	0.011	0	90.8	59	139	0.0089	6.59	25	
Chloroform	0.0089	0.0011	0.011	0	84.2	78	123	0.0090	1.28	25	
Chloromethane	0.013	0.0011	0.011	0.0012	108	50	136	0.012	3.54	25	BZ
cis-1,2-Dichloroethene	0.0089	0.0011	0.011	0	84.2	77	123	0.0086	2.41	25	
cis-1,3-Dichloropropene	0.0089	0.0011	0.011	0	84.2	74	126	0.0093	4.73	25	
Dichlorodifluoromethane [Freon-12]	0.012	0.0011	0.011	0	112	29	149	0.012	1.37	25	Z
Ethylbenzene	0.0074	0.0011	0.011	0	70.8	76	122	0.0081	8.93	25	Q
Methylene chloride	0.012	0.0053	0.011	0.0012	101	70	128	0.012	1.69	25	
Styrene	0.0056	0.0011	0.011	0	53.3	76	124	0.0067	17.3	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87053

Sample ID:	1606652-015AMSD	Samp Type:	MSD	Test Code:	SW_8260S-LL	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87053
Client ID:	H17-SB01-05SD1	Batch ID:	R87053	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688811

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0072	0.0011	0.011	0	68.9	73	128	0.0082	11.9	25	Q
Toluene	0.0080	0.0011	0.011	0	75.7	77	121	0.0084	4.99	25	Q
trans-1,2-Dichloroethene	0.0089	0.0011	0.011	0	84.2	74	125	0.0092	3.88	25	
trans-1,3-Dichloropropene	0.0085	0.0011	0.011	0	80.5	71	130	0.0087	2.20	25	
Trichloroethene	0.0084	0.0011	0.011	0	79.6	77	123	0.0085	1.60	25	
Trichlorofluoromethane [Freon-11]	0.0086	0.0011	0.011	0	81.4	62	140	0.0088	2.78	25	
Vinyl acetate	0.0030	0.0053	0.011	0	28.8	50	151	0.016	137	25	JRQZ
Vinyl chloride	0.0099	0.00084	0.011	0	93.7	56	135	0.0096	2.93	25	
Xylene (Total)	0.021	0.0032	0.032	0	68.1	78	124	0.023	8.72	25	Q
Surr: 4-Bromofluorobenzene	58		63.11		91.3	79	119		0	25	
Surr: Dibromofluoromethane	60		63.11		95.6	78	119		0	25	
Surr: Toluene-d8	56		63.11		88.8	85	116		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87059

Sample ID:	VOA11B LCS2 0629	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/30/2016	RunNo:	87059
Client ID:	LCSS	Batch ID:	R87059	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688872

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.41	0.050	0.50	0	81.4	78	125				
1,1,1-Trichloroethane	0.50	0.050	0.50	0	100	73	130				
1,1,2,2-Tetrachloroethane	0.53	0.050	0.50	0	106	70	124				
1,1,2-Trichloroethane	0.49	0.050	0.50	0	98.1	78	121				
1,1-Dichloroethane	0.52	0.050	0.50	0	104	76	125				
1,1-Dichloroethene	0.51	0.050	0.50	0	103	70	131				
1,2,3-Trichloropropane	0.41	0.050	0.50	0	82.1	73	125				
1,2-Dibromo-3-chloropropane	0.62	0.25	0.50	0	125	61	132				Z
1,2-Dibromoethane	0.45	0.050	0.50	0	90.1	78	122				
1,2-Dichloroethane	0.52	0.050	0.50	0	105	73	128				
1,2-Dichloropropane	0.52	0.050	0.50	0	103	76	123				
2-Butanone [MEK]	0.53	0.50	0.50	0	105	51	148				
2-Hexanone	0.48	0.10	0.50	0	95.5	53	145				
Acetone	0.62	0.25	0.50	0	125	36	164				
Benzene	0.51	0.050	0.50	0	101	77	121				
Bromodichloromethane	0.40	0.050	0.50	0	80.5	75	127				
Bromoform	0.55	0.050	0.50	0	110	67	132				
Carbon disulfide	0.46	0.050	0.50	0	92.8	63	132				
Carbon tetrachloride	0.44	0.050	0.50	0	88.1	70	135				
Chlorobenzene	0.49	0.050	0.50	0	97.5	79	120				
Chlorodibromomethane	0.53	0.050	0.50	0	105	74	126				Z
Chloroethane	0.078	0.25	0.50	0	15.6	59	139				JQY
Chloroform	0.53	0.050	0.50	0	105	78	123				
Chloromethane	0.70	0.050	0.50	0	140	50	136				Q
cis-1,2-Dichloroethene	0.50	0.050	0.50	0	101	77	123				
cis-1,3-Dichloropropene	0.39	0.050	0.50	0	77.1	74	126				
Dichlorodifluoromethane [Freon-12]	0.61	0.25	0.50	0	123	29	149				
Ethylbenzene	0.47	0.050	0.50	0	94.0	76	122				
Methylene chloride	0.67	0.10	0.50	0	133	70	128				Q
Styrene	0.39	0.050	0.50	0	78.0	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87059

Sample ID:	VOA11B LCS2 0629	Samp Type:	LCS	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/30/2016	RunNo:	87059
Client ID:	LCSS	Batch ID:	R87059	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688872

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	0.46	0.050	0.50	0	92.9	73	128				
Toluene	0.49	0.050	0.50	0	97.3	77	121				
trans-1,2-Dichloroethene	0.53	0.050	0.50	0	107	74	125				
trans-1,3-Dichloropropene	0.38	0.050	0.50	0	76.2	71	130				
Trichloroethene	0.49	0.050	0.50	0	98.6	77	123				
Trichlorofluoromethane [Freon-11]	0.54	0.050	0.50	0	108	62	140				
Vinyl acetate	0.57	1.2	0.50	0	114	50	151				J
Vinyl chloride	0.55	0.040	0.50	0	109	56	135				
Xylene (Total)	1.4	0.15	1.5	0	94.6	78	124				
Surr: 4-Bromofluorobenzene	2,900		3,000		97.2	79	119				
Surr: Dibromofluoromethane	3,100		3,000		104	78	119				
Surr: Toluene-d8	2,900		3,000		97.7	85	116				

Sample ID:	VOA11B MBLK2 062	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/30/2016	RunNo:	87059
Client ID:	PBS	Batch ID:	R87059	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688874

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.050	0.050									U
1,1,1-Trichloroethane	0.050	0.050									U
1,1,2,2-Tetrachloroethane	0.050	0.050									U
1,1,2-Trichloroethane	0.050	0.050									U
1,1-Dichloroethane	0.050	0.050									U
1,1-Dichloroethene	0.050	0.050									U
1,2,3-Trichloropropane	0.050	0.050									U
1,2-Dibromo-3-chloropropane	0.25	0.25									UZ
1,2-Dibromoethane	0.050	0.050									U
1,2-Dichloroethane	0.050	0.050									U
1,2-Dichloropropane	0.050	0.050									U
2-Butanone [MEK]	0.50	0.50									U
2-Hexanone	0.10	0.10									U
Acetone	0.25	0.25									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87059

Sample ID:	VOA11B MBLK2 062	Samp Type:	MBLK	Test Code:	SW_8260S	Units:	mg/Kg	Prep Date:	6/30/2016	RunNo:	87059
Client ID:	PBS	Batch ID:	R87059	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688874

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	0.050	0.050									U
Bromodichloromethane	0.050	0.050									U
Bromoform	0.050	0.050									U
Carbon disulfide	0.050	0.050									U
Carbon tetrachloride	0.050	0.050									U
Chlorobenzene	0.050	0.050									U
Chlorodibromomethane	0.050	0.050									UZ
Chloroethane	0.25	0.25									UY
Chloroform	0.050	0.050									U
Chloromethane	0.050	0.050									U
cis-1,2-Dichloroethene	0.050	0.050									U
cis-1,3-Dichloropropene	0.050	0.050									U
Dichlorodifluoromethane [Freon-12]	0.25	0.25									U
Ethylbenzene	0.050	0.050									U
Methylene chloride	0.045	0.10									J
Styrene	0.050	0.050									U
Tetrachloroethene	0.050	0.050									U
Toluene	0.050	0.050									U
trans-1,2-Dichloroethene	0.050	0.050									U
trans-1,3-Dichloropropene	0.050	0.050									U
Trichloroethene	0.050	0.050									U
Trichlorofluoromethane [Freon-11]	0.050	0.050									U
Vinyl acetate	1.2	1.2									U
Vinyl chloride	0.040	0.040									U
Xylene (Total)	0.15	0.15									U
Surr: 4-Bromofluorobenzene	2,300		2,500		93.6	79	119				
Surr: Dibromofluoromethane	2,500		2,500		102	78	119				
Surr: Toluene-d8	2,300		2,500		93.7	85	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87059

Sample ID:	1606652-014CMS	Samp Type:	MS	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87059
Client ID:	203-SB05-21MS1	Batch ID:	R87059	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688876

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	0.12	1.2	0	85.5	78	125				
1,1,1-Trichloroethane	1.2	0.12	1.2	0	101	73	130				
1,1,2,2-Tetrachloroethane	2.8	0.12	1.2	0	232	70	124				Q
1,1,2-Trichloroethane	1.2	0.12	1.2	0	98.0	78	121				
1,1-Dichloroethane	1.2	0.12	1.2	0	99.3	76	125				
1,1-Dichloroethene	1.2	0.12	1.2	0	99.0	70	131				
1,2,3-Trichloropropane	0.60	0.12	1.2	0	49.0	73	125				Q
1,2-Dibromo-3-chloropropane	2.7	0.61	1.2	0	222	61	132				QZ
1,2-Dibromoethane	1.1	0.12	1.2	0	93.6	78	122				
1,2-Dichloroethane	1.3	0.12	1.2	0	102	73	128				
1,2-Dichloropropane	1.2	0.12	1.2	0	99.0	76	123				
2-Butanone [MEK]	1.4	1.2	1.2	0	113	51	148				
2-Hexanone	2.1	0.25	1.2	0	169	53	145				Q
Acetone	1.5	0.61	1.2	0	118	36	164				
Benzene	1.7	0.12	1.2	0.48	99.0	77	121				
Bromodichloromethane	1.1	0.12	1.2	0	92.9	75	127				
Bromoform	1.4	0.12	1.2	0	111	67	132				
Carbon disulfide	1.1	0.12	1.2	0	91.1	63	132				
Carbon tetrachloride	1.1	0.12	1.2	0	87.2	70	135				
Chlorobenzene	1.4	0.12	1.2	0	112	79	120				
Chlorodibromomethane	1.3	0.12	1.2	0	110	74	126				Z
Chloroethane	0.35	0.61	1.2	0	28.8	59	139				JQY
Chloroform	1.2	0.12	1.2	0	101	78	123				
Chloromethane	1.5	0.12	1.2	0.21	107	50	136				
cis-1,2-Dichloroethene	1.2	0.12	1.2	0	99.7	77	123				
cis-1,3-Dichloropropene	0.95	0.12	1.2	0	77.3	74	126				
Dichlorodifluoromethane [Freon-12]	1.4	0.61	1.2	0	118	29	149				
Ethylbenzene	8.7	0.12	1.2	7.2	117	76	122				
Methylene chloride	1.3	0.25	1.2	0	105	70	128				
Styrene	1.0	0.12	1.2	0	85.2	76	124				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87059

Sample ID: **1606652-014CMS** Samp Type: **MS** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/30/2016** RunNo: **87059**

Client ID: **203-SB05-21MS1** Batch ID: **R87059** TestNo: **SW8260B** Analysis Date: **6/30/2016** SeqNo: **1688876**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.1	0.12	1.2	0	93.2	73	128				
Toluene	1.2	0.12	1.2	0	101	77	121				
trans-1,2-Dichloroethene	1.3	0.12	1.2	0	105	74	125				
trans-1,3-Dichloropropene	0.92	0.12	1.2	0	74.7	71	130				
Trichloroethene	1.2	0.12	1.2	0	99.1	77	123				
Trichlorofluoromethane [Freon-11]	1.5	0.12	1.2	0	125	62	140				
Vinyl acetate	1.2	3.1	1.2	0	101	50	151				J
Vinyl chloride	1.3	0.098	1.2	0	109	56	135				
Xylene (Total)	9.9	0.37	3.7	6.1	104	78	124				
Surr: 4-Bromofluorobenzene	11,000		7,353		149	79	119				Q
Surr: Dibromofluoromethane	7,400		7,353		101	78	119				
Surr: Toluene-d8	7,400		7,353		101	85	116				

Sample ID: **1606652-014CMSD** Samp Type: **MSD** Test Code: **SW_8260S** Units: **mg/Kg-dry** Prep Date: **6/30/2016** RunNo: **87059**

Client ID: **203-SB05-21SD1** Batch ID: **R87059** TestNo: **SW8260B** Analysis Date: **6/30/2016** SeqNo: **1688877**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	0.12	1.2	0	85.5	78	125	1.0	0	25	
1,1,1-Trichloroethane	1.2	0.12	1.2	0	98.9	73	130	1.2	1.80	25	
1,1,2,2-Tetrachloroethane	2.7	0.12	1.2	0	221	70	124	2.8	4.90	25	Q
1,1,2-Trichloroethane	1.2	0.12	1.2	0	98.6	78	121	1.2	0.610	25	
1,1-Dichloroethane	1.2	0.12	1.2	0	96.4	76	125	1.2	2.96	25	
1,1-Dichloroethene	1.2	0.12	1.2	0	94.5	70	131	1.2	4.65	25	
1,2,3-Trichloropropane	1.4	0.12	1.2	0	116	73	125	0.60	80.9	25	R
1,2-Dibromo-3-chloropropane	2.6	0.61	1.2	0	213	61	132	2.7	4.46	25	QZ
1,2-Dibromoethane	1.1	0.12	1.2	0	93.2	78	122	1.1	0.428	25	
1,2-Dichloroethane	1.3	0.12	1.2	0	102	73	128	1.3	0.0977	25	
1,2-Dichloropropane	1.2	0.12	1.2	0	99.1	76	123	1.2	0.101	25	
2-Butanone [MEK]	1.3	1.2	1.2	0	108	51	148	1.4	5.07	25	
2-Hexanone	2.0	0.25	1.2	0	167	53	145	2.1	1.31	25	Q
Acetone	1.4	0.61	1.2	0	110	36	164	1.5	6.99	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87059

Sample ID:	1606652-014CMSD	Samp Type:	MSD	Test Code:	SW_8260S	Units:	mg/Kg-dry	Prep Date:	6/30/2016	RunNo:	87059
Client ID:	203-SB05-21SD1	Batch ID:	R87059	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688877

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	1.7	0.12	1.2	0.48	95.8	77	121	1.7	2.34	25	
Bromodichloromethane	1.2	0.12	1.2	0	94.0	75	127	1.1	1.18	25	
Bromoform	1.4	0.12	1.2	0	112	67	132	1.4	0.987	25	
Carbon disulfide	1.1	0.12	1.2	0	88.8	63	132	1.1	2.56	25	
Carbon tetrachloride	1.1	0.12	1.2	0	86.4	70	135	1.1	0.922	25	
Chlorobenzene	1.4	0.12	1.2	0	111	79	120	1.4	0.540	25	
Chlorodibromomethane	1.3	0.12	1.2	0	108	74	126	1.3	1.65	25	Z
Chloroethane	0.71	0.61	1.2	0	58.3	59	139	0.35	67.7	25	RQY
Chloroform	1.2	0.12	1.2	0	102	78	123	1.2	0.593	25	
Chloromethane	1.4	0.12	1.2	0.21	97.7	50	136	1.5	7.78	25	
cis-1,2-Dichloroethene	1.2	0.12	1.2	0	96.7	77	123	1.2	3.05	25	
cis-1,3-Dichloropropene	0.94	0.12	1.2	0	76.7	74	126	0.95	0.779	25	
Dichlorodifluoromethane [Freon-12]	1.4	0.61	1.2	0	111	29	149	1.4	6.64	25	
Ethylbenzene	8.4	0.12	1.2	7.2	95.2	76	122	8.7	3.11	25	
Methylene chloride	1.3	0.25	1.2	0	105	70	128	1.3	0.382	25	
Styrene	1.1	0.12	1.2	0	87.3	76	124	1.0	2.43	25	
Tetrachloroethene	1.2	0.12	1.2	0	95.3	73	128	1.1	2.23	25	
Toluene	1.2	0.12	1.2	0	101	77	121	1.2	0.0993	25	
trans-1,2-Dichloroethene	1.2	0.12	1.2	0	100	74	125	1.3	4.39	25	
trans-1,3-Dichloropropene	0.89	0.12	1.2	0	73.0	71	130	0.92	2.30	25	
Trichloroethene	1.2	0.12	1.2	0	96.5	77	123	1.2	2.66	25	
Trichlorofluoromethane [Freon-11]	1.2	0.12	1.2	0	95.1	62	140	1.5	27.1	25	R
Vinyl acetate	1.2	3.1	1.2	0	101	50	151	1.2	0.0991	25	J
Vinyl chloride	1.3	0.098	1.2	0	110	56	135	1.3	0.638	25	
Xylene (Total)	9.8	0.37	3.7	6.1	101	78	124	9.9	1.15	25	
Surr: 4-Bromofluorobenzene	11,000		7,353		147	79	119		0	25	Q
Surr: Dibromofluoromethane	7,500		7,353		102	78	119		0	25	
Surr: Toluene-d8	7,400		7,353		100	85	116		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606652

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606652

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-01
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	% Moisture	Comment
1 Field QC	—	—	TB	1	TB-SO-061616-01	6/16/16	0805	WQ	3	051	3											
2 WDS-SB18	11	12	N	1	WDS-SB18-12	6/16/16	0830	~~WQ~~ SO	5		4										1	
3 WDS-SB19	11	12	N	1	WDS-SB19-12		0830	SO														
4 201-SB01	09	10	N	1	201-SB01-10		0915	SO														
5 201-SB01	24	25	N	1	201-SB01-25		0920	SO														
5MS 201-SB01	24	25	MS	1	201-SB01-25MS		0920	SO														matrix Spike
5SD 201-SB01	24	25	SD	1	201-SB01-25MSD		0920	SO														spike Dup
6 203-SB01	09	10	N	1	203-SB01-10		1010	SO														
7 203-SB01	11	12	N	1	203-SB01-12		1045	SO														
8 203-SB02	01	02	N	1	203-SB02-02		1115	SO														
9 203-SB03	03	04	N	1	203-SB03-04		1140	SO														
10 203-SB03	04	05	N	1	203-SB03-05		1145	SO														
11 203-SB04	10	11	N	1	203-SB04-11		1055	SO														

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/17/16	Time: 0930	1. Received By / Company: XFER TO FEDEX
2. Relinquished By / Company	Date	Time	2. Received By / Company
3. Relinquished By / Company	Date	Time	3. Received By / Company: Rachel Dean

Date	Time
6/17/16	0930
Date	Time
18 Jun 16	1037

Comments

Shipment Method/Airbill No. 805 0202 5604

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Xtreme 01 - 31°C

1606652

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-01
Batch May16

Database Information					Other Sample Information					Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	% Moisture	Comment
R 203-SB04	13	14	N	1	203-SB04-14	6/16/16	1110	SO	5	051	4										1	
203-SB05	04	05	N		203-SB05-05		1145															* 4oz jar empty
203-SB05	20	21	N		203-SB05-21		1200															
203-SB05	20	21	MS		203-SB05-21MS		1200															matrix spike
203-SB05	20	21	SD		203-SB05-21MSD		1200															spike Dup
H17-SB01	04	05	N		H17-SB01-05		1510															
H17-SB01	04	05	MS		H17-SB01-05MS		1510															matrix spike
H17-SB01	04	05	SD		H17-SB01-05MSD		1510															spike Dup
H17-SB02	04	05	N		H17-SB02-05		1440															
H17-SB03	04	05	N		H17-SB03-05		1445															

1. Relinquished By / Company: Amanda Martin AECOM	Date: 6/17/16	Time: 0930	1. Received By / Company: XFER TO FEDEX	Date: 6/17/16	Time: 0930
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company: Rachel Clear	Date: 18JUN16	Time: 1037

Comments

Shipment Method/Airbill No.: 8103 0202 5604

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

+3 Read Nalgenes - no DI H2O & Trial ICG

Xtreme 01, 3.1 °C

#051

FedEx
TRK# 0215 8103 0202 5604

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 CFAA

48150
MI-US
DTW

FID 552995 17JUN16 WSHA 539C2/30BD/6A08

Cooler ID :
Xtreme 01

temperature : 3.1°C

CUSTODY SEALS
Date 6/17/16
Signature

CUSTODY SEALS
Date 6/17/16
Signature

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

160652

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06/7/16-02
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
WDS-SB18	11	12	N	1	WDS-SB18-12	6/16/16	0830	SO	3	052				1			1	1			2
WDS-SB19	11	12	N		WDS-SB9-12		0830														
201-SB01	09	10	N		201-SB01-10		0915														
201-SB01	24	25	N		201-SB01-25		0920														
201-SB01	24	25	MS		201-SB01-25MS		0920														matrix Spike
201-SB01	24	25	SD		201-SB01-25MSD		0920														spike Dup
203-SB01	09	10	N		203-SB01-10		1010														
203-SB01	11	12	N		203-SB01-12		1045														
203-SB02	01	02	N		203-SB02-02		1115														
203-SB03	03	04	N		203-SB03-04		1140														
203-SB03	04	05	N		203-SB03-05		1145														
203-SB04	10	11	N		203-SB04-11		1055														
203-SB04	13	14	N		203-SB04-14		1110														

	Date	Time		Date	Time
1. Relinquished By / Company: Amanda Martin AECOM	6/17/16	0930	1. Received By / Company: XFER TO FEDEX	6/17/16	0932
2. Relinquished By / Company			2. Received By / Company		
3. Relinquished By / Company			3. Received By / Company: Rachel Dear	16jun16	1037

Comments: HOPE, 4.1°C

Shipment Method/Airbill No.: SDS 0202 5940

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

160652

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 061716-02
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
203-SB05	04	05	N	1	203-SB05-05	6/16/16	1145	SO	3	052				1			1	1				
203-SB05	20	21	N		203-SB05-21		1200															
203-SB05	20	21	MS		203-SB05-21MS		1200															matrix spike
203-SB05	20	21	SD		203-SB05-21MSD		1200															spike Dup
H17-SB01	04	05	N		H17-SB01-05		1510															
H17-SB01	04	05	MS		H17-SB01-05MS		1510															matrix spike
H17-SB01	04	05	SD		H17-SB01-05MSD		1510															spike Dup
H17-SB02	04	05	N		H17-SB02-05		1440															
H17-SB03	04	05	N		H17-SB03-05		1445															

1. Relinquished By / Company	Amanda Martin AECOM	Date	6/17/16	Time	0930	1. Received By / Company	XFER TO FEDEX
2. Relinquished By / Company		Date		Time		2. Received By / Company	
3. Relinquished By / Company		Date		Time		3. Received By / Company	Rachel Dear

Date	Time
6/17/16	0930
16 Jun 16	1037

Comments

Shipment Method/Airbill No. 8105 0202 5910

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

HOPE = 4.1°C

FedEx
TRK# 0215 8103 0202 5590

SATURDAY 12:00P
PRIORITY OVERNIGHT

48150
MI-US
DTW

XØ CFAA

FID 552995 17JUN16 WSHA 539C2/30BD/5AD8

#052

Cooler ID:
HOPE
temperature
4.1°C

CUSTODY SEALS

Date 6/17/16

Signature

CUSTODY SEALS

Date

Signature

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Tuesday, August 16, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606675

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606675-001A	WDS-SB11-GW		6/17/2016 1:30 PM	6/21/2016 10:25 AM	Groundwater
1606675-001B	WDS-SB11-GW		6/17/2016 1:30 PM	6/21/2016 10:25 AM	Groundwater
1606675-001C	WDS-SB11-GW		6/17/2016 1:30 PM	6/21/2016 10:25 AM	Groundwater
1606675-001D	WDS-SB11-GW		6/17/2016 1:30 PM	6/21/2016 10:25 AM	Groundwater
1606675-002A	WDS-SB06-GW		6/17/2016 2:20 PM	6/21/2016 10:25 AM	Groundwater
1606675-002B	WDS-SB06-GW		6/17/2016 2:20 PM	6/21/2016 10:25 AM	Groundwater
1606675-002C	WDS-SB06-GW		6/17/2016 2:20 PM	6/21/2016 10:25 AM	Groundwater
1606675-002D	WDS-SB06-GW		6/17/2016 2:20 PM	6/21/2016 10:25 AM	Groundwater
1606675-003A	WDS-SB09-GW		6/17/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-003B	WDS-SB09-GW		6/17/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-003C	WDS-SB09-GW		6/17/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-003D	WDS-SB09-GW		6/17/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-004A	H16-SB01-GW		6/19/2016 2:45 PM	6/21/2016 10:25 AM	Groundwater
1606675-004B	H16-SB01-GW		6/19/2016 2:45 PM	6/21/2016 10:25 AM	Groundwater
1606675-004C	H16-SB01-GW		6/19/2016 2:45 PM	6/21/2016 10:25 AM	Groundwater
1606675-004D	H16-SB01-GW		6/19/2016 2:45 PM	6/21/2016 10:25 AM	Groundwater
1606675-005A	H21-SB03-GW		6/19/2016 2:00 PM	6/21/2016 10:25 AM	Groundwater
1606675-005B	H21-SB03-GW		6/19/2016 2:00 PM	6/21/2016 10:25 AM	Groundwater
1606675-005C	H21-SB03-GW		6/19/2016 2:00 PM	6/21/2016 10:25 AM	Groundwater
1606675-005D	H21-SB03-GW		6/19/2016 2:00 PM	6/21/2016 10:25 AM	Groundwater
1606675-006A	H21-SB02-GW		6/19/2016 10:00 AM	6/21/2016 10:25 AM	Groundwater
1606675-006B	H21-SB02-GW		6/19/2016 10:00 AM	6/21/2016 10:25 AM	Groundwater
1606675-006C	H21-SB02-GW		6/19/2016 10:00 AM	6/21/2016 10:25 AM	Groundwater
1606675-006D	H21-SB02-GW		6/19/2016 10:00 AM	6/21/2016 10:25 AM	Groundwater
1606675-007A	MP-SB02-GW		6/19/2016 8:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-007B	MP-SB02-GW		6/19/2016 8:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-007C	MP-SB02-GW		6/19/2016 8:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-008A	TB-GW-061716-03		6/17/2016 8:20 AM	6/21/2016 10:25 AM	Water
1606675-009A	TB-GW-061916-01		6/19/2016 8:00 AM	6/21/2016 10:25 AM	Water
1606675-010A	TB-GW-061916-02		6/19/2016 8:10 AM	6/21/2016 10:25 AM	Water
1606675-011A	TB-GW-062016-01		6/20/2016 8:00 AM	6/21/2016 10:25 AM	Water
1606675-012A	203-SB01-GW		6/20/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-012B	203-SB01-GW		6/20/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-012C	203-SB01-GW		6/20/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-012D	203-SB01-GW		6/20/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-013A	H21-SB01-GW		6/19/2016 12:30 PM	6/21/2016 10:25 AM	Groundwater
1606675-013B	H21-SB01-GW		6/19/2016 12:30 PM	6/21/2016 10:25 AM	Groundwater
1606675-013C	H21-SB01-GW		6/19/2016 12:30 PM	6/21/2016 10:25 AM	Groundwater
1606675-013D	H21-SB01-GW		6/19/2016 12:30 PM	6/21/2016 10:25 AM	Groundwater
1606675-014A	WDS-SB07-GW		6/19/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-014B	WDS-SB07-GW		6/19/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-014C	WDS-SB07-GW		6/19/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-014D	WDS-SB07-GW		6/19/2016 11:15 AM	6/21/2016 10:25 AM	Groundwater
1606675-015A	034-SB01-GW		6/19/2016 9:47 AM	6/21/2016 10:25 AM	Groundwater
1606675-015B	034-SB01-GW		6/19/2016 9:47 AM	6/21/2016 10:25 AM	Groundwater

RTI Laboratories - Workorder Sample Summary

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606675-015C	034-SB01-GW		6/19/2016 9:47 AM	6/21/2016 10:25 AM	Groundwater

RTI Laboratories - Case Narrative

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Metals, ICP/MS - 6020A
- Silver and/or Antimony, ICP/MS - 6020A-SA
- Polychlorinated Biphenyls - 8082A
- Volatile Organic Compounds - 8260C
- Semi-Volatile Organic Compounds - 8270D-MOD
- Semi-Volatile Organic Compounds - 8270D SIM
- Explosives - 8330B

Sample 1606675-014A for VOC analysis was performed at a dilution past the recommended hold time. Due to the high solid content of the sample was unable to be performed with out dilution. Sample would not inject with out dilution.

Analytical Comments for Test SW_6020A, Analytical Run No 87810, Batch ID 40425:
Sample 1606675-013DMSD: Recoveries for Magnesium and Sodium exceeded control limits.

Analytical Comments for Test SW_6020A, Analytical Run No 87826, Batch ID 40425:
Sample 1606675-003D: Internal standard exceeded control limits upon initial analysis. Sample was diluted; Data reported with elevated reporting limits.
Sample 1606675-013DMS: Recovery for Aluminum exceeded control limits. Suspected matrix interference for Aluminum.
Sample 1606675-013DMSD: Recovery for Aluminum exceeded control limits. Suspected matrix interference for Aluminum.
Sample 1606675-014D: Internal standard exceeded control limits upon initial analysis. Sample was diluted; Data reported with elevated reporting limits.

Analytical Comments for Test SW_6020A, Analytical Run No 87866, Batch ID 40425:
Sample 1606675-003D: Internal standard exceeded control limits upon initial analysis. Sample was diluted; internal standard still exceeded control limits. Data reported with elevated reporting limits.

Analytical Comments for Test SW_8082A, Analytical Run No 87275, Batch ID 40329:
Sample 1606675-014C: Surrogate DCB exceeded control limits.
Sample 1606675-015B: Surrogate DCB exceeded control limits.

Analytical Comments for Test SW_8082A, Analytical Run No 87558, Batch ID 40397:
Sample 1606675-004C: DCA exceeded QC limit.

Analytical Comments for Test SW_8260A, Analytical Run No 87032, Batch ID R87032:
Sample VOA10 CCV 062916: CCV results for 1,2-Dibromo-3-chloropropane exceed the 20% criteria.
Sample VOA10 CCVE 062916: Dichlorodifluoromethane, exceed the 50% criteria.
Samples1606636-001A MS/MSD: Spike recovery for 1,2-Dibromo-3-chloropropane was outside the control limits.
Sample 1606636-012A MSD: Spike recovery for 1,2-Dibromo-3-chloropropane was outside the control limits. RPD for 1,2-Dibromo-3-chloropropane and 2-Hexanone were outside the control limits.

Analytical Comments for Test SW_8260A, Analytical Run No 87063, Batch ID R87063:
Sample VOA10 LCS 063016: Recovery for Methylene chloride exceeded control limits.
Sample VOA10 LCSD 06301: Recovery for Methylene chloride exceeded control limits.
Sample VO10 CCVE 063016: Ending CCV results for several analyses exceeded the 50% criteria. Unable to reanalyze samples within recommended holding time.

Analytical Comments for Test SW_8260A, Analytical Run No 87322, Batch ID R87322:
Sample VOA11B ICV 070916: 1,2-Dibromo-3-chloropropane, Bromoform, trans-1,3-dichloropropene exceed limits.
Sample ID VOA11B CCV 071216: Styrene exceeded QC limits.
Sample VOA11B LCS 07121: Spike recoveries for Chlorodibromomethane, Bromodichloromethane and styrene exceeded QC limits.
Sample 1606675-014A MS: Spike recoveries bromodichloromethane, Bromoform, Chlorodibromomethane, cis-1,3-dichloropropene, and Styrene exceeded QC limits
Sample 1606675-014A MSD: Spike recoveries Bromodichloromethane, Chlorodibromomethane, cis-1,3-dichloropropene, and styrene exceeded QC limits

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86948, Batch ID 40220:
Sample MB-40220: Surrogate recoveries for 2,4,6-Trimbromophenol, 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside the control limits.
Sample LCS-40220: 4-Nitrophenol, N-Nitrosodimethylamine and Phenol were outside the control limits.
Sample LCSD-40220: 4-Nitrophenol, Benzoic acid, N-Nitrosodimethylamine and Phenol were outside the control limits.
Sample 1606675-001B: Surrogate Phenol-d5 exceeded recovery control limit.
Sample 1606675-002B: Surrogate Phenol-d5 and Terphenyl-d14 exceeded recovery control limit.
Sample 1606675-003B: Surrogate Phenol-d5 exceeded recovery control limit.
Sample 1606675-004B: Surrogate Phenol-d5 exceeded recovery control limit.
Sample 1606675-005B: Surrogate Recoveries for Phenol-d5 and 2-Fluorobiphenyl exceeded recovery control limits.
Sample 1606675-006B: Surrogate Phenol-d5 exceeded recovery control limit.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 86948, Batch ID R86948:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic Acid exceeded control limit.
Sample CCV S8 062616: CCV results 2,4-Dinitrophenol, Benzoic acid, N-Nitrosodiphenylamine and Pentachlorophenol
Sample CCVE S8 062616: Ending CCV results for Benzoic acid, Hexachlorocyclopentadiene exceeded recovery control limit.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87057, Batch ID 40235:
Sample MB-40235: Surrogate recovery for Phenol-d5 was outside the control limits.
Sample LCS-40235: LCS results for 4-Nitrophenol, Benzoic acid, N-Nitrosodimethylamine, Pentachlorophenol, and Phenol exceeded control limits. Surrogate recovery for Phenol-d5 was outside the control limits.
Sample LCSD-40235: LCSD results for 4-Nitrophenol, Benzoic acid, N-Nitrosodimethylamine, Pentachlorophenol, and Phenol exceeded control limit. The RPD for 4-Nitrophenol was outside the control limits. Surrogate recovery for Phenol-d5 was outside the control limits.
Sample 1606675-007B: Surrogate results for Phenol-d5 exceeded control limit.
Sample 1606675-012B: Surrogate results for Phenol-d5 exceeded control limit.
Sample 1606675-013B: Surrogate results for Phenol-d5 exceeded control limit.
Sample 1606675-014B: Surrogate results for Phenol-d5 exceeded control limit.
Sample 1606740-003A MS: Spike recoveries for N-Nitrosodimethylamine and Phenol were outside the control limits.
Sample 1606740-007A MS: Spike recoveries for 4-Nitrophenol, N-Nitrosodimethylamine and Phenol were outside the control limits. Surrogate recovery for Phenol-d5 was outside the control limits.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87057, Batch ID R87057:
Sample ICV S8 050216: ICV results for Bis(2-chloroisopropyl) ether and Benzoic acid exceeded control limit.
Sample CCV S8 062816: CCV results for 4,6-Dinitro-2-methylphenol, Benzoic acid, Bis(2-chloroisopropyl) ether, N-Nitrosodimethylamine, Pentachlorophenol exceeded QC limit.
Sample CCVE S8 062816: Ending CCV for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol exceeded control limit.

Analytical Comments for Test SW_8330A, Analytical Run No 87250, Batch ID 40130:
Sample LCSD-40130: Recovery (63%) and RPD result for PETN exceeded control limits.

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 1:30:00 PM
Project: Camp Hero
Lab ID: 1606675-001 **Matrix:** Groundwater
Client Sample ID: WDS-SB11-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.038	U	0.030	0.038	0.094	µg/L	1	7/6/2016 7:03 PM
Aroclor 1221	0.038	U	0.028	0.038	0.094	µg/L	1	7/6/2016 7:03 PM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	7/6/2016 7:03 PM
Aroclor 1242	0.038	U	0.035	0.038	0.19	µg/L	1	7/6/2016 7:03 PM
Aroclor 1248	0.038	U	0.029	0.038	0.094	µg/L	1	7/6/2016 7:03 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	7/6/2016 7:03 PM
Aroclor 1260	0.038	U	0.033	0.038	0.19	µg/L	1	7/6/2016 7:03 PM
Aroclor 1262	0.094	U	0.048	0.094	0.19	µg/L	1	7/6/2016 7:03 PM
Aroclor 1268	0.038	U	0.026	0.038	0.094	µg/L	1	7/6/2016 7:03 PM
Surr: Tetrachloro-m-xylene	88.0			40-135		%Rec	1	7/6/2016 7:03 PM
Surr: Decachlorobiphenyl	46.2			40-135		%Rec	1	7/6/2016 7:03 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	100,000		140	250	5,000	µg/L	500	8/4/2016 5:47 PM
Arsenic	6.2		0.61	1.0	1.5	µg/L	5	8/3/2016 2:56 PM
Barium	250		0.18	0.50	25	µg/L	5	8/3/2016 2:56 PM
Beryllium	2.1		0.25	0.50	1.0	µg/L	5	8/3/2016 2:56 PM
Cadmium	0.48	J	0.27	0.50	1.0	µg/L	5	8/3/2016 2:56 PM
Calcium	8,500		90	120	1,000	µg/L	5	8/3/2016 2:56 PM
Chromium	83		0.30	0.50	10	µg/L	5	8/3/2016 2:56 PM
Cobalt	14	G	0.12	0.50	5.0	µg/L	5	8/8/2016 11:50 AM
Copper	59		1.2	2.5	25	µg/L	25	8/4/2016 7:02 PM
Iron	23,000		48	120	200	µg/L	5	8/3/2016 2:56 PM
Lead	34		0.24	0.50	1.0	µg/L	5	8/3/2016 2:56 PM
Magnesium	9,100		41	120	500	µg/L	5	8/3/2016 2:56 PM
Manganese	650		0.26	0.50	5.0	µg/L	5	8/3/2016 2:56 PM
Nickel	34	G	0.20	0.50	10	µg/L	5	8/8/2016 11:50 AM
Potassium	4,700		110	120	500	µg/L	5	8/3/2016 2:56 PM
Selenium	3.3	J	1.5	2.5	5.0	µg/L	5	8/3/2016 2:56 PM
Sodium	31,000		58	120	500	µg/L	5	8/3/2016 2:56 PM
Thallium	0.52	J	0.16	0.50	2.0	µg/L	5	8/3/2016 2:56 PM
Vanadium	86		0.49	0.50	4.0	µg/L	5	8/3/2016 2:56 PM
Zinc	130		1.8	2.5	50	µg/L	5	8/3/2016 2:56 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.0	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 3:11 PM
Silver	0.28	J	0.24	0.50	1.5	µg/L	5	7/12/2016 3:11 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.95	U	0.86	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
1,2-Dichlorobenzene	0.95	U	0.88	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
1,3-Dichlorobenzene	0.95	U	0.72	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
1,4-Dichlorobenzene	2.4	U	0.99	2.4	4.8	µg/L	1	6/26/2016 7:16 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 1:30:00 PM
Project: Camp Hero
Lab ID: 1606675-001 **Matrix:** Groundwater
Client Sample ID: WDS-SB11-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
2,4,6-Trichlorophenol	0.95	U	0.91	0.95	3.8	µg/L	1	6/26/2016 7:16 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
2,4-Dinitrophenol	9.5	UY	4.8	9.5	24	µg/L	1	6/26/2016 7:16 PM
2,4-Dinitrotoluene	0.95	U	0.57	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
2,6-Dinitrotoluene	0.95	U	0.81	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
2-Chloronaphthalene	0.95	U	0.84	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
2-Chlorophenol	0.95	U	0.83	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
2-Methylphenol (o-Cresol)	0.95	U	0.95	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
2-Nitroaniline	0.95	U	0.84	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/26/2016 7:16 PM
3-Nitroaniline	0.95	U	0.79	0.95	9.5	µg/L	1	6/26/2016 7:16 PM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.7	4.8	9.5	µg/L	1	6/26/2016 7:16 PM
4,6-Dinitro-2-methylphenol	0.95	U	0.85	0.95	9.5	µg/L	1	6/26/2016 7:16 PM
4-Bromophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
4-Chloroaniline [p-Chloroaniline]	0.95	U	0.77	0.95	9.5	µg/L	1	6/26/2016 7:16 PM
4-Chlorophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.5	µg/L	1	6/26/2016 7:16 PM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/26/2016 7:16 PM
Benzoic acid	8.8	JY QZ	1.9	2.4	24	µg/L	1	6/26/2016 7:16 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/26/2016 7:16 PM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
Bis(2-chloroethyl) ether	2.4	U	0.98	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
Bis(2-chloroisopropyl)ether	2.4	UZ	1.1	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
Bis(2-ethylhexyl) phthalate	0.95	U	0.67	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Butyl benzyl phthalate	2.4	U	0.98	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
Carbazole	0.95	U	0.58	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Di-n-butyl phthalate	0.95	U	0.55	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
Dibenzofuran	0.95	U	0.72	0.95	3.8	µg/L	1	6/26/2016 7:16 PM
Diethyl phthalate	0.95	U	0.59	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Dimethyl phthalate	0.95	U	0.68	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Hexachlorobenzene	0.95	U	0.58	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Hexachlorobutadiene	0.95	U	0.81	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Hexachloroethane	0.95	U	0.70	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.8	µg/L	1	6/26/2016 7:16 PM
N-Nitrosodimethylamine	0.95	UQ	0.60	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
N-Nitrosodiphenylamine	0.95	UY	0.63	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/26/2016 7:16 PM
Pentachlorophenol	0.95	UY	0.88	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Phenol	0.95	UQ	0.57	0.95	4.8	µg/L	1	6/26/2016 7:16 PM
Surr: 2,4,6-Tribromophenol	68.7			43-140		%Rec	1	6/26/2016 7:16 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 1:30:00 PM
Project:	Camp Hero		
Lab ID:	1606675-001	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB11-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	48.4			44-119		%Rec	1	6/26/2016 7:16 PM
Surr: 2-Fluorophenol	26.0			19-119		%Rec	1	6/26/2016 7:16 PM
Surr: Nitrobenzene-d5	46.6			44-120		%Rec	1	6/26/2016 7:16 PM
Surr: Phenol-d5	17.5	JQ		30-130		%Rec	1	6/26/2016 7:16 PM
Surr: Terphenyl-d14	54.5			50-134		%Rec	1	6/26/2016 7:16 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
2-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Naphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Phenanthrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 5:41 PM
Surr: 2-Fluorobiphenyl	50.6	Q		53-106		%Rec	1	7/28/2016 5:41 PM
Surr: Nitrobenzene-d5	69.9			55-111		%Rec	1	7/28/2016 5:41 PM
Surr: Terphenyl-d14	50.4	Q		58-132		%Rec	1	7/28/2016 5:41 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/30/2016 9:49 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/30/2016 9:49 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/30/2016 9:49 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/30/2016 9:49 AM
Acetone	2.5	J	0.56	0.60	10	µg/L	1	6/30/2016 9:49 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/30/2016 9:49 AM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 1:30:00 PM
Project: Camp Hero
Lab ID: 1606675-001 **Matrix:** Groundwater
Client Sample ID: WDS-SB11-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	UY	0.33	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/30/2016 9:49 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Methylene chloride	0.60	UQ	0.27	0.60	5.0	µg/L	1	6/30/2016 9:49 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/30/2016 9:49 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/30/2016 9:49 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/30/2016 9:49 AM
Surr: 4-Bromofluorobenzene	95.7			85-114		%Rec	1	6/30/2016 9:49 AM
Surr: Dibromofluoromethane	82.4			80-119		%Rec	1	6/30/2016 9:49 AM
Surr: Toluene-d8	93.1			89-112		%Rec	1	6/30/2016 9:49 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606675-002 **Matrix:** Groundwater
Client Sample ID: WDS-SB06-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.040	U	0.032	0.040	0.10	µg/L	1	7/6/2016 7:28 PM
Aroclor 1221	0.040	U	0.030	0.040	0.10	µg/L	1	7/6/2016 7:28 PM
Aroclor 1232	0.041	U	0.041	0.041	0.20	µg/L	1	7/6/2016 7:28 PM
Aroclor 1242	0.040	U	0.037	0.040	0.20	µg/L	1	7/6/2016 7:28 PM
Aroclor 1248	0.040	U	0.031	0.040	0.10	µg/L	1	7/6/2016 7:28 PM
Aroclor 1254	0.040	U	0.040	0.040	0.20	µg/L	1	7/6/2016 7:28 PM
Aroclor 1260	0.040	U	0.035	0.040	0.20	µg/L	1	7/6/2016 7:28 PM
Aroclor 1262	0.10	U	0.051	0.10	0.20	µg/L	1	7/6/2016 7:28 PM
Aroclor 1268	0.040	U	0.028	0.040	0.10	µg/L	1	7/6/2016 7:28 PM
Surr: Tetrachloro-m-xylene	78.5			40-135		%Rec	1	7/6/2016 7:28 PM
Surr: Decachlorobiphenyl	78.7			40-135		%Rec	1	7/6/2016 7:28 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	150,000		6.9	12	250	µg/L	25	8/4/2016 7:16 PM
Arsenic	9.4		0.61	1.0	1.5	µg/L	5	8/3/2016 4:01 PM
Barium	630		0.92	2.5	120	µg/L	25	8/4/2016 7:16 PM
Beryllium	5.6		0.25	0.50	1.0	µg/L	5	8/3/2016 4:01 PM
Cadmium	2.8		0.27	0.50	1.0	µg/L	5	8/3/2016 4:01 PM
Calcium	18,000		90	120	1,000	µg/L	5	8/3/2016 4:01 PM
Chromium	170		0.30	0.50	10	µg/L	5	8/3/2016 4:01 PM
Cobalt	29		0.60	2.5	25	µg/L	25	8/4/2016 7:16 PM
Copper	100		1.2	2.5	25	µg/L	25	8/4/2016 7:16 PM
Iron	76,000		240	620	1,000	µg/L	25	8/4/2016 7:16 PM
Lead	69		0.24	0.50	1.0	µg/L	5	8/3/2016 4:01 PM
Magnesium	15,000		41	120	500	µg/L	5	8/3/2016 4:01 PM
Manganese	590		0.26	0.50	5.0	µg/L	5	8/3/2016 4:01 PM
Nickel	84		1.0	2.5	50	µg/L	25	8/4/2016 7:16 PM
Potassium	11,000		110	120	500	µg/L	5	8/3/2016 4:01 PM
Selenium	5.8		1.5	2.5	5.0	µg/L	5	8/3/2016 4:01 PM
Sodium	16,000		58	120	500	µg/L	5	8/3/2016 4:01 PM
Thallium	2.7		0.16	0.50	2.0	µg/L	5	8/3/2016 4:01 PM
Vanadium	160		0.49	0.50	4.0	µg/L	5	8/3/2016 4:01 PM
Zinc	240		1.8	2.5	50	µg/L	5	8/3/2016 4:01 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.94	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 3:12 PM
Silver	0.34	J	0.24	0.50	1.5	µg/L	5	7/12/2016 3:12 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.94	U	0.85	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
1,2-Dichlorobenzene	0.94	U	0.87	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
1,3-Dichlorobenzene	0.94	U	0.71	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
1,4-Dichlorobenzene	2.4	U	0.98	2.4	4.7	µg/L	1	6/26/2016 7:40 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606675-002 **Matrix:** Groundwater
Client Sample ID: WDS-SB06-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.4	U	1.0	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
2,4,6-Trichlorophenol	0.94	U	0.91	0.94	3.8	µg/L	1	6/26/2016 7:40 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
2,4-Dinitrophenol	9.4	UY	4.8	9.4	24	µg/L	1	6/26/2016 7:40 PM
2,4-Dinitrotoluene	0.94	U	0.57	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
2,6-Dinitrotoluene	0.94	U	0.80	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
2-Chloronaphthalene	0.94	U	0.83	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
2-Chlorophenol	0.94	U	0.82	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
2-Methylphenol (o-Cresol)	0.94	U	0.94	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
2-Nitroaniline	0.94	U	0.83	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
3,3´-Dichlorobenzidine	2.4	U	1.5	2.4	19	µg/L	1	6/26/2016 7:40 PM
3-Nitroaniline	0.94	U	0.79	0.94	9.4	µg/L	1	6/26/2016 7:40 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.4	µg/L	1	6/26/2016 7:40 PM
4,6-Dinitro-2-methylphenol	0.94	U	0.84	0.94	9.4	µg/L	1	6/26/2016 7:40 PM
4-Bromophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
4-Chloroaniline [p-Chloroaniline]	0.94	U	0.76	0.94	9.4	µg/L	1	6/26/2016 7:40 PM
4-Chlorophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.4	µg/L	1	6/26/2016 7:40 PM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/26/2016 7:40 PM
Benzoic acid	19	JY QZ	1.9	2.4	24	µg/L	1	6/26/2016 7:40 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/26/2016 7:40 PM
Bis(2-chloroethoxy) methane	2.4	U	0.99	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
Bis(2-chloroethyl) ether	2.4	U	0.97	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
Bis(2-chloroisopropyl)ether	2.4	UZ	1.1	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
Bis(2-ethylhexyl) phthalate	0.94	U	0.66	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Butyl benzyl phthalate	2.4	U	0.97	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
Carbazole	2.1	J	0.57	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Di-n-butyl phthalate	0.94	U	0.55	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
Dibenzofuran	1.6	J	0.71	0.94	3.8	µg/L	1	6/26/2016 7:40 PM
Diethyl phthalate	0.94	U	0.58	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Dimethyl phthalate	0.94	U	0.67	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Hexachlorobenzene	0.94	U	0.58	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Hexachlorobutadiene	0.94	U	0.81	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Hexachloroethane	0.94	U	0.69	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Isophorone	0.94	U	0.91	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.7	µg/L	1	6/26/2016 7:40 PM
N-Nitrosodimethylamine	0.94	UQ	0.60	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
N-Nitrosodiphenylamine	0.94	UY	0.62	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Nitrobenzene	2.4	U	1.2	2.4	2.8	µg/L	1	6/26/2016 7:40 PM
Pentachlorophenol	0.94	UY	0.87	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Phenol	0.94	UQ	0.57	0.94	4.7	µg/L	1	6/26/2016 7:40 PM
Surr: 2,4,6-Tribromophenol	61.5			43-140		%Rec	1	6/26/2016 7:40 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606675-002 **Matrix:** Groundwater
Client Sample ID: WDS-SB06-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	46.0			44-119		%Rec	1	6/26/2016 7:40 PM
Surr: 2-Fluorophenol	28.3			19-119		%Rec	1	6/26/2016 7:40 PM
Surr: Nitrobenzene-d5	52.4			44-120		%Rec	1	6/26/2016 7:40 PM
Surr: Phenol-d5	19.1	JQ		30-130		%Rec	1	6/26/2016 7:40 PM
Surr: Terphenyl-d14	31.8	Q		50-134		%Rec	1	6/26/2016 7:40 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.080		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
2-Methylnaphthalene	0.10		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Acenaphthene	0.24		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Anthracene	0.20		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Benz(a)anthracene	0.20		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Benzo(a)pyrene	0.13		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Benzo(b)fluoranthene	0.21		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Benzo(g,h,i)perylene	0.034		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Benzo(k)fluoranthene	0.095		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Chrysene	0.17		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Fluoranthene	0.55		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Fluorene	0.26		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Indeno(1,2,3-cd)pyrene	0.034		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Naphthalene	0.35		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Phenanthrene	0.82		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Pyrene	0.41		0.019	0.019	0.019	µg/L	1	7/28/2016 6:08 PM
Surr: 2-Fluorobiphenyl	95.9			53-106		%Rec	1	7/28/2016 6:08 PM
Surr: Nitrobenzene-d5	96.6			55-111		%Rec	1	7/28/2016 6:08 PM
Surr: Terphenyl-d14	130			58-132		%Rec	1	7/28/2016 6:08 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/30/2016 10:15 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/30/2016 10:15 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/30/2016 10:15 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/30/2016 10:15 AM
Acetone	7.1	J	0.56	0.60	10	µg/L	1	6/30/2016 10:15 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/30/2016 10:15 AM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 2:20:00 PM
Project: Camp Hero
Lab ID: 1606675-002 **Matrix:** Groundwater
Client Sample ID: WDS-SB06-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	UY	0.33	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Carbon disulfide	1.3		0.54	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/30/2016 10:15 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Methylene chloride	0.60	UQ	0.27	0.60	5.0	µg/L	1	6/30/2016 10:15 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/30/2016 10:15 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/30/2016 10:15 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/30/2016 10:15 AM
Surr: 4-Bromofluorobenzene	93.3			85-114		%Rec	1	6/30/2016 10:15 AM
Surr: Dibromofluoromethane	86.5			80-119		%Rec	1	6/30/2016 10:15 AM
Surr: Toluene-d8	93.4			89-112		%Rec	1	6/30/2016 10:15 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606675-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB09-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.045	U	0.036	0.045	0.11	µg/L	1	7/6/2016 7:52 PM
Aroclor 1221	0.045	U	0.034	0.045	0.11	µg/L	1	7/6/2016 7:52 PM
Aroclor 1232	0.046	U	0.046	0.046	0.22	µg/L	1	7/6/2016 7:52 PM
Aroclor 1242	0.045	U	0.042	0.045	0.22	µg/L	1	7/6/2016 7:52 PM
Aroclor 1248	0.045	U	0.035	0.045	0.11	µg/L	1	7/6/2016 7:52 PM
Aroclor 1254	0.045	U	0.045	0.045	0.22	µg/L	1	7/6/2016 7:52 PM
Aroclor 1260	0.045	U	0.039	0.045	0.22	µg/L	1	7/6/2016 7:52 PM
Aroclor 1262	0.11	U	0.057	0.11	0.22	µg/L	1	7/6/2016 7:52 PM
Aroclor 1268	0.045	U	0.031	0.045	0.11	µg/L	1	7/6/2016 7:52 PM
Surr: Tetrachloro-m-xylene	82.1			40-135		%Rec	1	7/6/2016 7:52 PM
Surr: Decachlorobiphenyl	82.5			40-135		%Rec	1	7/6/2016 7:52 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	1,100,000		140	250	5,000	µg/L	500	8/4/2016 5:28 PM
Arsenic	34		6.1	10	15	µg/L	50	8/4/2016 4:06 PM
Barium	5,700		1.8	5.0	250	µg/L	50	8/4/2016 4:06 PM
Beryllium	43	J	25	50	100	µg/L	500	8/5/2016 1:35 PM
Cadmium	8.8		0.27	0.50	1.0	µg/L	5	8/3/2016 2:37 PM
Calcium	47,000		450	620	5,000	µg/L	25	8/4/2016 6:43 PM
Chromium	1,700		30	50	1,000	µg/L	500	8/4/2016 5:28 PM
Cobalt	240		0.60	2.5	25	µg/L	25	8/4/2016 6:43 PM
Copper	1,100		24	50	500	µg/L	500	8/4/2016 5:28 PM
Iron	970,000		4,800	12,000	20,000	µg/L	500	8/4/2016 5:28 PM
Lead	480		2.4	5.0	10	µg/L	50	8/4/2016 4:06 PM
Magnesium	270,000		4,100	12,000	50,000	µg/L	500	8/4/2016 5:28 PM
Manganese	13,000		26	50	500	µg/L	500	8/4/2016 5:28 PM
Nickel	550		1.0	2.5	50	µg/L	25	8/4/2016 6:43 PM
Potassium	180,000		11,000	12,000	50,000	µg/L	500	8/4/2016 5:28 PM
Selenium	25		7.3	12	25	µg/L	25	8/4/2016 6:43 PM
Sodium	12,000	YQ	580	1,200	5,000	µg/L	50	8/4/2016 4:06 PM
Thallium	16		0.82	2.5	10	µg/L	25	8/4/2016 6:43 PM
Vanadium	2,700		49	50	400	µg/L	500	8/4/2016 5:28 PM
Zinc	2,300		18	25	500	µg/L	50	8/4/2016 4:06 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.9	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 3:13 PM
Silver	3.2		0.24	0.50	1.5	µg/L	5	7/12/2016 3:13 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.98	U	0.89	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
1,2-Dichlorobenzene	0.98	U	0.91	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
1,3-Dichlorobenzene	0.98	U	0.74	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
1,4-Dichlorobenzene	2.5	U	1.0	2.5	4.9	µg/L	1	6/26/2016 8:05 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606675-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB09-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.5	U	1.1	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
2,4,6-Trichlorophenol	0.98	U	0.94	0.98	3.9	µg/L	1	6/26/2016 8:05 PM
2,4-Dichlorophenol	2.5	U	1.4	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
2,4-Dimethyl phenol	2.5	U	2.2	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
2,4-Dinitrophenol	9.8	UY	4.9	9.8	25	µg/L	1	6/26/2016 8:05 PM
2,4-Dinitrotoluene	0.98	U	0.59	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
2,6-Dinitrotoluene	0.98	U	0.83	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
2-Chloronaphthalene	0.98	U	0.87	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
2-Chlorophenol	0.98	U	0.85	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
2-Methylphenol (o-Cresol)	0.98	U	0.98	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
2-Nitroaniline	0.98	U	0.86	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
2-Nitrophenol	2.5	U	1.2	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
3,3´-Dichlorobenzidine	2.5	U	1.6	2.5	20	µg/L	1	6/26/2016 8:05 PM
3-Nitroaniline	0.98	U	0.82	0.98	9.8	µg/L	1	6/26/2016 8:05 PM
3/4-Methylphenol [m/p-Cresol]	4.9	U	1.8	4.9	9.8	µg/L	1	6/26/2016 8:05 PM
4,6-Dinitro-2-methylphenol	0.98	U	0.87	0.98	9.8	µg/L	1	6/26/2016 8:05 PM
4-Bromophenyl phenyl ether	0.98	U	0.77	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
4-Chloro-3-methylphenol	2.5	U	1.2	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
4-Chloroaniline [p-Chloroaniline]	0.98	U	0.79	0.98	9.8	µg/L	1	6/26/2016 8:05 PM
4-Chlorophenyl phenyl ether	0.98	U	0.77	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
4-Nitroaniline	2.5	U	1.2	2.5	9.8	µg/L	1	6/26/2016 8:05 PM
4-Nitrophenol	2.5	UQ	1.4	2.5	25	µg/L	1	6/26/2016 8:05 PM
Benzoic acid	2.5	UY QZ	2.0	2.5	25	µg/L	1	6/26/2016 8:05 PM
Benzyl alcohol	2.5	U	2.1	2.5	25	µg/L	1	6/26/2016 8:05 PM
Bis(2-chloroethoxy) methane	2.5	U	1.0	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
Bis(2-chloroethyl) ether	2.5	U	1.0	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
Bis(2-chloroisopropyl)ether	2.5	UZ	1.1	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
Bis(2-ethylhexyl) phthalate	0.98	U	0.69	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Butyl benzyl phthalate	2.5	U	1.0	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
Carbazole	0.98	U	0.60	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Di-n-butyl phthalate	0.98	U	0.57	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Di-n-octyl phthalate	2.5	U	1.1	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
Dibenzofuran	0.98	U	0.74	0.98	3.9	µg/L	1	6/26/2016 8:05 PM
Diethyl phthalate	0.98	U	0.60	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Dimethyl phthalate	0.98	U	0.70	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Hexachlorobenzene	0.98	U	0.60	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Hexachlorobutadiene	0.98	U	0.84	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Hexachloroethane	0.98	U	0.72	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Isophorone	0.98	U	0.94	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
N-Nitroso-di-n-propylamine	2.5	U	1.1	2.5	4.9	µg/L	1	6/26/2016 8:05 PM
N-Nitrosodimethylamine	0.98	UQ	0.62	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
N-Nitrosodiphenylamine	0.98	UY	0.65	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Nitrobenzene	2.5	U	1.2	2.5	2.9	µg/L	1	6/26/2016 8:05 PM
Pentachlorophenol	0.98	UY	0.90	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Phenol	0.98	UQ	0.59	0.98	4.9	µg/L	1	6/26/2016 8:05 PM
Surr: 2,4,6-Tribromophenol	84.3			43-140		%Rec	1	6/26/2016 8:05 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/17/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606675-003 **Matrix:** Groundwater
Client Sample ID: WDS-SB09-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	66.0			44-119		%Rec	1	6/26/2016 8:05 PM
Surr: 2-Fluorophenol	37.4			19-119		%Rec	1	6/26/2016 8:05 PM
Surr: Nitrobenzene-d5	71.5			44-120		%Rec	1	6/26/2016 8:05 PM
Surr: Phenol-d5	25.0	Q		30-130		%Rec	1	6/26/2016 8:05 PM
Surr: Terphenyl-d14	71.3			50-134		%Rec	1	6/26/2016 8:05 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
2-Methylnaphthalene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Acenaphthene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Acenaphthylene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Anthracene	0.43		0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Benz(a)anthracene	0.48		0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Benzo(a)pyrene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Benzo(b)fluoranthene	0.59		0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Benzo(g,h,i)perylene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Benzo(k)fluoranthene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Chrysene	0.48		0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Dibenzo(a,h)anthracene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Fluoranthene	1.1		0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Fluorene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Indeno(1,2,3-cd)pyrene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Naphthalene	0.39	U	0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Phenanthrene	0.62		0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Pyrene	0.91		0.39	0.39	0.39	µg/L	20	7/28/2016 6:35 PM
Surr: 2-Fluorobiphenyl	0	QU		53-106		%Rec	20	7/28/2016 6:35 PM
Surr: Nitrobenzene-d5	0	QU		55-111		%Rec	20	7/28/2016 6:35 PM
Surr: Terphenyl-d14	422	Q		58-132		%Rec	20	7/28/2016 6:35 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/30/2016 10:51 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/30/2016 10:51 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
2-Butanone [MEK]	33		2.3	5.0	10	µg/L	1	6/30/2016 10:51 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/30/2016 10:51 AM
Acetone	26		0.56	0.60	10	µg/L	1	6/30/2016 10:51 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/30/2016 10:51 AM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 11:15:00 AM
Project:	Camp Hero		
Lab ID:	1606675-003	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB09-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	UY	0.33	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Carbon disulfide	1.1		0.54	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/30/2016 10:51 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Methylene chloride	0.60	UQ	0.27	0.60	5.0	µg/L	1	6/30/2016 10:51 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/30/2016 10:51 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/30/2016 10:51 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/30/2016 10:51 AM
Surr: 4-Bromofluorobenzene	96.7			85-114		%Rec	1	6/30/2016 10:51 AM
Surr: Dibromofluoromethane	86.2			80-119		%Rec	1	6/30/2016 10:51 AM
Surr: Toluene-d8	94.1			89-112		%Rec	1	6/30/2016 10:51 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606675-004 **Matrix:** Groundwater
Client Sample ID: H16-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	7/19/2016 6:42 PM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	7/19/2016 6:42 PM
Aroclor 1232	0.038	U	0.038	0.038	0.19	µg/L	1	7/19/2016 6:42 PM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	7/19/2016 6:42 PM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	7/19/2016 6:42 PM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	7/19/2016 6:42 PM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	7/19/2016 6:42 PM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	7/19/2016 6:42 PM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	7/19/2016 6:42 PM
Surr: Tetrachloro-m-xylene	40.5			40-135		%Rec	1	7/19/2016 6:42 PM
Surr: Decachlorobiphenyl	16.8	Q		40-135		%Rec	1	7/19/2016 6:42 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	110,000		6.9	12	250	µg/L	25	8/4/2016 7:18 PM
Arsenic	5.4		0.61	1.0	1.5	µg/L	5	8/3/2016 4:03 PM
Barium	250		0.18	0.50	25	µg/L	5	8/3/2016 4:03 PM
Beryllium	2.3		0.25	0.50	1.0	µg/L	5	8/3/2016 4:03 PM
Cadmium	1.2		0.27	0.50	1.0	µg/L	5	8/3/2016 4:03 PM
Calcium	16,000		90	120	1,000	µg/L	5	8/3/2016 4:03 PM
Chromium	84		0.30	0.50	10	µg/L	5	8/3/2016 4:03 PM
Cobalt	12	G	0.12	0.50	5.0	µg/L	5	8/8/2016 11:51 AM
Copper	52		1.2	2.5	25	µg/L	25	8/4/2016 7:18 PM
Iron	23,000		48	120	200	µg/L	5	8/3/2016 4:03 PM
Lead	55		0.24	0.50	1.0	µg/L	5	8/3/2016 4:03 PM
Magnesium	8,300		41	120	500	µg/L	5	8/3/2016 4:03 PM
Manganese	440		0.26	0.50	5.0	µg/L	5	8/3/2016 4:03 PM
Nickel	34	G	0.20	0.50	10	µg/L	5	8/8/2016 11:51 AM
Potassium	3,800		110	120	500	µg/L	5	8/3/2016 4:03 PM
Selenium	4.4	J	1.5	2.5	5.0	µg/L	5	8/3/2016 4:03 PM
Sodium	29,000		58	120	500	µg/L	5	8/3/2016 4:03 PM
Thallium	0.59	J	0.16	0.50	2.0	µg/L	5	8/3/2016 4:03 PM
Vanadium	67		0.49	0.50	4.0	µg/L	5	8/3/2016 4:03 PM
Zinc	210		1.8	2.5	50	µg/L	5	8/3/2016 4:03 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.68	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 3:13 PM
Silver	0.74	J	0.24	0.50	1.5	µg/L	5	7/12/2016 3:13 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.94	U	0.85	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
1,2-Dichlorobenzene	0.94	U	0.87	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
1,3-Dichlorobenzene	0.94	U	0.71	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
1,4-Dichlorobenzene	2.4	U	0.98	2.4	4.7	µg/L	1	6/26/2016 8:30 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606675-004 **Matrix:** Groundwater
Client Sample ID: H16-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.4	U	1.0	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
2,4,6-Trichlorophenol	0.94	U	0.91	0.94	3.8	µg/L	1	6/26/2016 8:30 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
2,4-Dinitrophenol	9.4	UY	4.8	9.4	24	µg/L	1	6/26/2016 8:30 PM
2,4-Dinitrotoluene	0.94	U	0.57	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
2,6-Dinitrotoluene	0.94	U	0.80	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
2-Chloronaphthalene	0.94	U	0.83	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
2-Chlorophenol	0.94	U	0.82	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
2-Methylphenol (o-Cresol)	0.94	U	0.94	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
2-Nitroaniline	0.94	U	0.83	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
3,3´-Dichlorobenzidine	2.4	U	1.5	2.4	19	µg/L	1	6/26/2016 8:30 PM
3-Nitroaniline	0.94	U	0.79	0.94	9.4	µg/L	1	6/26/2016 8:30 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.4	µg/L	1	6/26/2016 8:30 PM
4,6-Dinitro-2-methylphenol	0.94	U	0.84	0.94	9.4	µg/L	1	6/26/2016 8:30 PM
4-Bromophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
4-Chloroaniline [p-Chloroaniline]	0.94	U	0.76	0.94	9.4	µg/L	1	6/26/2016 8:30 PM
4-Chlorophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.4	µg/L	1	6/26/2016 8:30 PM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/26/2016 8:30 PM
Benzoic acid	9.4	JY QZ	1.9	2.4	24	µg/L	1	6/26/2016 8:30 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/26/2016 8:30 PM
Bis(2-chloroethoxy) methane	2.4	U	0.99	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
Bis(2-chloroethyl) ether	2.4	U	0.97	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
Bis(2-chloroisopropyl)ether	2.4	UZ	1.1	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
Bis(2-ethylhexyl) phthalate	0.94	U	0.66	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Butyl benzyl phthalate	2.4	U	0.97	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
Carbazole	0.94	U	0.57	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Di-n-butyl phthalate	0.94	U	0.55	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
Dibenzofuran	0.94	U	0.71	0.94	3.8	µg/L	1	6/26/2016 8:30 PM
Diethyl phthalate	0.94	U	0.58	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Dimethyl phthalate	0.94	U	0.67	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Hexachlorobenzene	0.94	U	0.58	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Hexachlorobutadiene	0.94	U	0.81	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Hexachloroethane	0.94	U	0.69	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Isophorone	0.94	U	0.91	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.7	µg/L	1	6/26/2016 8:30 PM
N-Nitrosodimethylamine	0.94	UQ	0.60	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
N-Nitrosodiphenylamine	0.94	UY	0.62	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Nitrobenzene	2.4	U	1.2	2.4	2.8	µg/L	1	6/26/2016 8:30 PM
Pentachlorophenol	0.94	UY	0.87	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Phenol	0.94	UQ	0.57	0.94	4.7	µg/L	1	6/26/2016 8:30 PM
Surr: 2,4,6-Tribromophenol	64.9			43-140		%Rec	1	6/26/2016 8:30 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606675-004 **Matrix:** Groundwater
Client Sample ID: H16-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	50.2			44-119		%Rec	1	6/26/2016 8:30 PM
Surr: 2-Fluorophenol	37.0			19-119		%Rec	1	6/26/2016 8:30 PM
Surr: Nitrobenzene-d5	59.7			44-120		%Rec	1	6/26/2016 8:30 PM
Surr: Phenol-d5	24.5	Q		30-130		%Rec	1	6/26/2016 8:30 PM
Surr: Terphenyl-d14	54.0			50-134		%Rec	1	6/26/2016 8:30 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
2-Methylnaphthalene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Acenaphthene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Acenaphthylene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Anthracene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Benz(a)anthracene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Benzo(a)pyrene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Benzo(b)fluoranthene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Benzo(g,h,i)perylene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Benzo(k)fluoranthene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Chrysene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Dibenzo(a,h)anthracene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Fluoranthene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Fluorene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Indeno(1,2,3-cd)pyrene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Naphthalene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Phenanthrene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Pyrene	3.8	U	3.8	3.8	3.8	µg/L	200	7/28/2016 7:03 PM
Surr: 2-Fluorobiphenyl	0	QU		53-106		%Rec	200	7/28/2016 7:03 PM
Surr: Nitrobenzene-d5	0	QU		55-111		%Rec	200	7/28/2016 7:03 PM
Surr: Terphenyl-d14	0	QU		58-132		%Rec	200	7/28/2016 7:03 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/30/2016 11:17 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/30/2016 11:17 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/30/2016 11:17 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/30/2016 11:17 AM
Acetone	2.1	J	0.56	0.60	10	µg/L	1	6/30/2016 11:17 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/30/2016 11:17 AM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 2:45:00 PM
Project: Camp Hero
Lab ID: 1606675-004 **Matrix:** Groundwater
Client Sample ID: H16-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	UY	0.33	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/30/2016 11:17 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Methylene chloride	0.60	UQ	0.27	0.60	5.0	µg/L	1	6/30/2016 11:17 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/30/2016 11:17 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/30/2016 11:17 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/30/2016 11:17 AM
Surr: 4-Bromofluorobenzene	94.5			85-114		%Rec	1	6/30/2016 11:17 AM
Surr: Dibromofluoromethane	84.7			80-119		%Rec	1	6/30/2016 11:17 AM
Surr: Toluene-d8	93.8			89-112		%Rec	1	6/30/2016 11:17 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606675-005 **Matrix:** Groundwater
Client Sample ID: H21-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.039	U	0.031	0.039	0.097	µg/L	1	7/6/2016 8:41 PM
Aroclor 1221	0.039	U	0.029	0.039	0.097	µg/L	1	7/6/2016 8:41 PM
Aroclor 1232	0.040	U	0.040	0.040	0.19	µg/L	1	7/6/2016 8:41 PM
Aroclor 1242	0.039	U	0.036	0.039	0.19	µg/L	1	7/6/2016 8:41 PM
Aroclor 1248	0.039	U	0.030	0.039	0.097	µg/L	1	7/6/2016 8:41 PM
Aroclor 1254	0.039	U	0.039	0.039	0.19	µg/L	1	7/6/2016 8:41 PM
Aroclor 1260	0.039	U	0.034	0.039	0.19	µg/L	1	7/6/2016 8:41 PM
Aroclor 1262	0.097	U	0.050	0.097	0.19	µg/L	1	7/6/2016 8:41 PM
Aroclor 1268	0.039	U	0.027	0.039	0.097	µg/L	1	7/6/2016 8:41 PM
Surr: Tetrachloro-m-xylene	87.6			40-135		%Rec	1	7/6/2016 8:41 PM
Surr: Decachlorobiphenyl	66.8			40-135		%Rec	1	7/6/2016 8:41 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	65,000		6.9	12	250	µg/L	25	8/4/2016 7:20 PM
Arsenic	3.8		0.61	1.0	1.5	µg/L	5	8/3/2016 4:05 PM
Barium	390		0.18	0.50	25	µg/L	5	8/3/2016 4:05 PM
Beryllium	2.6		0.25	0.50	1.0	µg/L	5	8/3/2016 4:05 PM
Cadmium	0.86	J	0.27	0.50	1.0	µg/L	5	8/3/2016 4:05 PM
Calcium	18,000		90	120	1,000	µg/L	5	8/3/2016 4:05 PM
Chromium	95		0.30	0.50	10	µg/L	5	8/3/2016 4:05 PM
Cobalt	27		0.60	2.5	25	µg/L	25	8/4/2016 7:20 PM
Copper	82		1.2	2.5	25	µg/L	25	8/4/2016 7:20 PM
Iron	54,000		240	620	1,000	µg/L	25	8/4/2016 7:20 PM
Lead	35		0.24	0.50	1.0	µg/L	5	8/3/2016 4:05 PM
Magnesium	14,000		41	120	500	µg/L	5	8/3/2016 4:05 PM
Manganese	530		0.26	0.50	5.0	µg/L	5	8/3/2016 4:05 PM
Nickel	62		1.0	2.5	50	µg/L	25	8/4/2016 7:20 PM
Potassium	8,400		110	120	500	µg/L	5	8/3/2016 4:05 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	8/3/2016 4:05 PM
Sodium	20,000		58	120	500	µg/L	5	8/3/2016 4:05 PM
Thallium	0.94	J	0.16	0.50	2.0	µg/L	5	8/3/2016 4:05 PM
Vanadium	100		0.49	0.50	4.0	µg/L	5	8/3/2016 4:05 PM
Zinc	150		1.8	2.5	50	µg/L	5	8/3/2016 4:05 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.34	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 3:14 PM
Silver	0.29	J	0.24	0.50	1.5	µg/L	5	7/12/2016 3:14 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.95	U	0.86	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
1,2-Dichlorobenzene	0.95	U	0.88	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
1,3-Dichlorobenzene	0.95	U	0.72	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
1,4-Dichlorobenzene	2.4	U	0.99	2.4	4.8	µg/L	1	6/26/2016 8:54 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606675-005 **Matrix:** Groundwater
Client Sample ID: H21-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
2,4,6-Trichlorophenol	0.95	U	0.91	0.95	3.8	µg/L	1	6/26/2016 8:54 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
2,4-Dinitrophenol	9.5	UY	4.8	9.5	24	µg/L	1	6/26/2016 8:54 PM
2,4-Dinitrotoluene	0.95	U	0.57	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
2,6-Dinitrotoluene	0.95	U	0.81	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
2-Chloronaphthalene	0.95	U	0.84	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
2-Chlorophenol	0.95	U	0.83	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
2-Methylphenol (o-Cresol)	0.95	U	0.95	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
2-Nitroaniline	0.95	U	0.84	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/26/2016 8:54 PM
3-Nitroaniline	0.95	U	0.79	0.95	9.5	µg/L	1	6/26/2016 8:54 PM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.7	4.8	9.5	µg/L	1	6/26/2016 8:54 PM
4,6-Dinitro-2-methylphenol	0.95	U	0.85	0.95	9.5	µg/L	1	6/26/2016 8:54 PM
4-Bromophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
4-Chloroaniline [p-Chloroaniline]	0.95	U	0.77	0.95	9.5	µg/L	1	6/26/2016 8:54 PM
4-Chlorophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.5	µg/L	1	6/26/2016 8:54 PM
4-Nitrophenol	2.4	UQ	1.3	2.4	24	µg/L	1	6/26/2016 8:54 PM
Benzoic acid	2.4	UY QZ	1.9	2.4	24	µg/L	1	6/26/2016 8:54 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/26/2016 8:54 PM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
Bis(2-chloroethyl) ether	2.4	U	0.98	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
Bis(2-chloroisopropyl)ether	2.4	UZ	1.1	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
Bis(2-ethylhexyl) phthalate	0.95	U	0.67	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Butyl benzyl phthalate	2.4	U	0.98	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
Carbazole	0.95	U	0.58	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Di-n-butyl phthalate	0.95	U	0.55	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
Dibenzofuran	0.95	U	0.72	0.95	3.8	µg/L	1	6/26/2016 8:54 PM
Diethyl phthalate	0.94	J	0.59	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Dimethyl phthalate	0.95	U	0.68	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Hexachlorobenzene	0.95	U	0.58	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Hexachlorobutadiene	0.95	U	0.81	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Hexachloroethane	0.95	U	0.70	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.8	µg/L	1	6/26/2016 8:54 PM
N-Nitrosodimethylamine	0.95	UQ	0.60	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
N-Nitrosodiphenylamine	0.95	UY	0.63	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/26/2016 8:54 PM
Pentachlorophenol	0.95	UY	0.88	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Phenol	0.95	UQ	0.57	0.95	4.8	µg/L	1	6/26/2016 8:54 PM
Surr: 2,4,6-Tribromophenol	58.7			43-140		%Rec	1	6/26/2016 8:54 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606675-005 **Matrix:** Groundwater
Client Sample ID: H21-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	43.4	Q		44-119		%Rec	1	6/26/2016 8:54 PM
Surr: 2-Fluorophenol	28.0			19-119		%Rec	1	6/26/2016 8:54 PM
Surr: Nitrobenzene-d5	46.0			44-120		%Rec	1	6/26/2016 8:54 PM
Surr: Phenol-d5	17.7	JQ		30-130		%Rec	1	6/26/2016 8:54 PM
Surr: Terphenyl-d14	56.3			50-134		%Rec	1	6/26/2016 8:54 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
2-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Fluoranthene	0.027		0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Naphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Phenanthrene	0.026		0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Pyrene	0.023		0.019	0.019	0.019	µg/L	1	7/28/2016 7:30 PM
Surr: 2-Fluorobiphenyl	48.0	Q		53-106		%Rec	1	7/28/2016 7:30 PM
Surr: Nitrobenzene-d5	56.6			55-111		%Rec	1	7/28/2016 7:30 PM
Surr: Terphenyl-d14	190	Q		58-132		%Rec	1	7/28/2016 7:30 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/30/2016 11:43 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/30/2016 11:43 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
2-Butanone [MEK]	12		2.3	5.0	10	µg/L	1	6/30/2016 11:43 AM
2-Hexanone	1.4	J	0.64	1.0	2.0	µg/L	1	6/30/2016 11:43 AM
Acetone	8.0	J	0.56	0.60	10	µg/L	1	6/30/2016 11:43 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/30/2016 11:43 AM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606675-005 **Matrix:** Groundwater
Client Sample ID: H21-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	UY	0.33	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/30/2016 11:43 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Methylene chloride	0.60	UQ	0.27	0.60	5.0	µg/L	1	6/30/2016 11:43 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/30/2016 11:43 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/30/2016 11:43 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/30/2016 11:43 AM
Surr: 4-Bromofluorobenzene	93.6			85-114		%Rec	1	6/30/2016 11:43 AM
Surr: Dibromofluoromethane	86.4			80-119		%Rec	1	6/30/2016 11:43 AM
Surr: Toluene-d8	92.7			89-112		%Rec	1	6/30/2016 11:43 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606675-006 **Matrix:** Groundwater
Client Sample ID: H21-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.038	U	0.031	0.038	0.096	µg/L	1	7/6/2016 9:05 PM
Aroclor 1221	0.038	U	0.029	0.038	0.096	µg/L	1	7/6/2016 9:05 PM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	7/6/2016 9:05 PM
Aroclor 1242	0.038	U	0.036	0.038	0.19	µg/L	1	7/6/2016 9:05 PM
Aroclor 1248	0.038	U	0.030	0.038	0.096	µg/L	1	7/6/2016 9:05 PM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	7/6/2016 9:05 PM
Aroclor 1260	0.038	U	0.034	0.038	0.19	µg/L	1	7/6/2016 9:05 PM
Aroclor 1262	0.096	U	0.049	0.096	0.19	µg/L	1	7/6/2016 9:05 PM
Aroclor 1268	0.038	U	0.027	0.038	0.096	µg/L	1	7/6/2016 9:05 PM
Surr: Tetrachloro-m-xylene	90.0			40-135		%Rec	1	7/6/2016 9:05 PM
Surr: Decachlorobiphenyl	50.9			40-135		%Rec	1	7/6/2016 9:05 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	140,000		140	250	5,000	µg/L	500	8/4/2016 6:13 PM
Arsenic	14		0.61	1.0	1.5	µg/L	5	8/3/2016 4:07 PM
Barium	1,600		0.92	2.5	120	µg/L	25	8/4/2016 7:23 PM
Beryllium	6.5		0.25	0.50	1.0	µg/L	5	8/3/2016 4:07 PM
Cadmium	1.4		0.27	0.50	1.0	µg/L	5	8/3/2016 4:07 PM
Calcium	13,000		450	620	5,000	µg/L	25	8/4/2016 7:23 PM
Chromium	180		0.30	0.50	10	µg/L	5	8/3/2016 4:07 PM
Cobalt	99		0.60	2.5	25	µg/L	25	8/4/2016 7:23 PM
Copper	150		1.2	2.5	25	µg/L	25	8/4/2016 7:23 PM
Iron	130,000		240	620	1,000	µg/L	25	8/4/2016 7:23 PM
Lead	55		0.24	0.50	1.0	µg/L	5	8/3/2016 4:07 PM
Magnesium	31,000		200	620	2,500	µg/L	25	8/4/2016 7:23 PM
Manganese	5,700		1.3	2.5	25	µg/L	25	8/4/2016 7:23 PM
Nickel	140		1.0	2.5	50	µg/L	25	8/4/2016 7:23 PM
Potassium	17,000		530	620	2,500	µg/L	25	8/4/2016 7:23 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	8/3/2016 4:07 PM
Sodium	25,000	Q	580	1,200	5,000	µg/L	50	8/4/2016 4:55 PM
Thallium	1.3	J	0.16	0.50	2.0	µg/L	5	8/3/2016 4:07 PM
Vanadium	160		0.49	0.50	4.0	µg/L	5	8/3/2016 4:07 PM
Zinc	290		1.8	2.5	50	µg/L	5	8/3/2016 4:07 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.60	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 3:15 PM
Silver	0.43	J	0.24	0.50	1.5	µg/L	5	7/12/2016 3:15 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.97	U	0.88	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
1,2-Dichlorobenzene	0.97	U	0.90	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
1,3-Dichlorobenzene	0.97	U	0.73	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
1,4-Dichlorobenzene	2.4	U	1.0	2.4	4.9	µg/L	1	6/26/2016 9:19 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606675-006 **Matrix:** Groundwater
Client Sample ID: H21-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
2,4,6-Trichlorophenol	0.97	U	0.93	0.97	3.9	µg/L	1	6/26/2016 9:19 PM
2,4-Dichlorophenol	2.4	U	1.4	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
2,4-Dimethyl phenol	2.4	U	2.2	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
2,4-Dinitrophenol	9.7	UY	4.9	9.7	24	µg/L	1	6/26/2016 9:19 PM
2,4-Dinitrotoluene	0.97	U	0.58	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
2,6-Dinitrotoluene	0.97	U	0.83	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
2-Chloronaphthalene	0.97	U	0.86	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
2-Chlorophenol	0.97	U	0.85	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
2-Methylphenol (o-Cresol)	0.97	U	0.97	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
2-Nitroaniline	0.97	U	0.85	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/26/2016 9:19 PM
3-Nitroaniline	0.97	U	0.81	0.97	9.7	µg/L	1	6/26/2016 9:19 PM
3/4-Methylphenol [m/p-Cresol]	4.9	U	1.8	4.9	9.7	µg/L	1	6/26/2016 9:19 PM
4,6-Dinitro-2-methylphenol	0.97	U	0.86	0.97	9.7	µg/L	1	6/26/2016 9:19 PM
4-Bromophenyl phenyl ether	0.97	U	0.77	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
4-Chloroaniline [p-Chloroaniline]	0.97	U	0.79	0.97	9.7	µg/L	1	6/26/2016 9:19 PM
4-Chlorophenyl phenyl ether	0.97	U	0.77	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.7	µg/L	1	6/26/2016 9:19 PM
4-Nitrophenol	2.4	UQ	1.4	2.4	24	µg/L	1	6/26/2016 9:19 PM
Benzoic acid	2.4	UY QZ	2.0	2.4	24	µg/L	1	6/26/2016 9:19 PM
Benzyl alcohol	2.4	U	2.1	2.4	24	µg/L	1	6/26/2016 9:19 PM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
Bis(2-chloroethyl) ether	2.4	U	1.0	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
Bis(2-chloroisopropyl)ether	2.4	UZ	1.1	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
Bis(2-ethylhexyl) phthalate	0.97	U	0.68	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Butyl benzyl phthalate	2.4	U	1.0	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
Carbazole	0.97	U	0.59	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Di-n-butyl phthalate	0.97	U	0.57	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
Dibenzofuran	0.97	U	0.73	0.97	3.9	µg/L	1	6/26/2016 9:19 PM
Diethyl phthalate	0.97	U	0.60	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Dimethyl phthalate	0.97	U	0.69	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Hexachlorobenzene	0.97	U	0.60	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Hexachlorobutadiene	0.97	U	0.83	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Hexachloroethane	0.97	U	0.71	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Isophorone	0.97	U	0.93	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
N-Nitroso-di-n-propylamine	2.4	U	1.1	2.4	4.9	µg/L	1	6/26/2016 9:19 PM
N-Nitrosodimethylamine	0.97	UQ	0.61	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
N-Nitrosodiphenylamine	0.97	UY	0.64	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/26/2016 9:19 PM
Pentachlorophenol	0.97	UY	0.89	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Phenol	0.97	UQ	0.59	0.97	4.9	µg/L	1	6/26/2016 9:19 PM
Surr: 2,4,6-Tribromophenol	69.7			43-140		%Rec	1	6/26/2016 9:19 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606675-006 **Matrix:** Groundwater
Client Sample ID: H21-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2-Fluorobiphenyl	52.0			44-119		%Rec	1	6/26/2016 9:19 PM
Surr: 2-Fluorophenol	33.8			19-119		%Rec	1	6/26/2016 9:19 PM
Surr: Nitrobenzene-d5	51.2			44-120		%Rec	1	6/26/2016 9:19 PM
Surr: Phenol-d5	22.2	Q		30-130		%Rec	1	6/26/2016 9:19 PM
Surr: Terphenyl-d14	67.2			50-134		%Rec	1	6/26/2016 9:19 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
2-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Naphthalene	0.027		0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Phenanthrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/28/2016 7:58 PM
Surr: 2-Fluorobiphenyl	79.6			53-106		%Rec	1	7/28/2016 7:58 PM
Surr: Nitrobenzene-d5	77.8			55-111		%Rec	1	7/28/2016 7:58 PM
Surr: Terphenyl-d14	256	JQ		58-132		%Rec	1	7/28/2016 7:58 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/30/2016 12:09 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/30/2016 12:09 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/30/2016 12:09 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/30/2016 12:09 PM
Acetone	3.3	J	0.56	0.60	10	µg/L	1	6/30/2016 12:09 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/30/2016 12:09 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606675-006 **Matrix:** Groundwater
Client Sample ID: H21-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bromodichloromethane	0.60	UY	0.33	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/30/2016 12:09 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Methylene chloride	0.60	UQ	0.27	0.60	5.0	µg/L	1	6/30/2016 12:09 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/30/2016 12:09 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/30/2016 12:09 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/30/2016 12:09 PM
Surr: 4-Bromofluorobenzene	94.0			85-114		%Rec	1	6/30/2016 12:09 PM
Surr: Dibromofluoromethane	87.4			80-119		%Rec	1	6/30/2016 12:09 PM
Surr: Toluene-d8	93.0			89-112		%Rec	1	6/30/2016 12:09 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 8:15:00 AM
Project: Camp Hero
Lab ID: 1606675-007 **Matrix:** Groundwater
Client Sample ID: MP-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene [1,3,5-TNB]	0.10	U	0.019	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
1,3-Dinitrobenzene [1,3-DNB]	0.10	U	0.026	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
2,4,6-Trinitrotoluene	0.10	U	0.018	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
2,4-Dinitrotoluene	0.10	U	0.031	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
2,6-Dinitrotoluene	0.10	U	0.029	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
2-Amino-4,6-dinitrotoluene	0.10	U	0.023	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
2-Nitrotoluene	0.10	U	0.026	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
3-Nitrotoluene	0.10	U	0.023	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
4-Amino-2,6-dinitrotoluene	0.10	U	0.023	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
4-Nitrotoluene	0.10	U	0.061	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.10	UB	0.029	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
Nitrobenzene	0.10	U	0.050	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.10	U	0.027	0.10	0.20	µg/L	1	6/30/2016 3:12 AM
Tetryl	0.10	U	0.090	0.10	0.31	µg/L	1	6/30/2016 3:12 AM
Surr: 4-Nitroaniline	114			70-130		%Rec	1	6/30/2016 3:12 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.48	U	0.25	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
1,2-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
1,3-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
1,4-Dichlorobenzene	0.48	U	0.20	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
2,4,5-Trichlorophenol	0.48	U	0.25	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
2,4,6-Trichlorophenol	0.48	U	0.28	0.48	3.8	µg/L	1	6/29/2016 12:24 AM
2,4-Dichlorophenol	0.48	U	0.19	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
2,4-Dimethyl phenol	0.96	U	0.53	0.96	4.8	µg/L	1	6/29/2016 12:24 AM
2,4-Dinitrophenol	9.6	U	5.5	9.6	24	µg/L	1	6/29/2016 12:24 AM
2,4-Dinitrotoluene	0.48	U	0.24	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
2,6-Dinitrotoluene	0.48	U	0.27	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
2-Chloronaphthalene	0.96	U	0.67	0.96	4.8	µg/L	1	6/29/2016 12:24 AM
2-Chlorophenol	0.48	U	0.18	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
2-Methylphenol (o-Cresol)	0.48	U	0.17	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
2-Nitroaniline	0.48	U	0.23	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
2-Nitrophenol	0.48	U	0.23	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
3,3´-Dichlorobenzidine	9.6	U	5.3	9.6	19	µg/L	1	6/29/2016 12:24 AM
3-Nitroaniline	0.96	U	0.33	0.96	9.6	µg/L	1	6/29/2016 12:24 AM
3/4-Methylphenol [m/p-Cresol]	0.96	U	0.37	0.96	9.6	µg/L	1	6/29/2016 12:24 AM
4,6-Dinitro-2-methylphenol	2.4	UY	1.5	2.4	9.6	µg/L	1	6/29/2016 12:24 AM
4-Bromophenyl phenyl ether	2.4	U	0.97	2.4	4.8	µg/L	1	6/29/2016 12:24 AM
4-Chloro-3-methylphenol	0.48	U	0.24	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
4-Chloroaniline [p-Chloroaniline]	0.48	U	0.33	0.48	9.6	µg/L	1	6/29/2016 12:24 AM
4-Chlorophenyl phenyl ether	0.48	U	0.17	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
4-Nitroaniline	0.48	U	0.19	0.48	9.6	µg/L	1	6/29/2016 12:24 AM
4-Nitrophenol	9.6	UQ	4.4	9.6	24	µg/L	1	6/29/2016 12:24 AM
Benzoic acid	9.6	UY QZ	3.6	9.6	24	µg/L	1	6/29/2016 12:24 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 8:15:00 AM
Project: Camp Hero
Lab ID: 1606675-007 **Matrix:** Groundwater
Client Sample ID: MP-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benzyl alcohol	0.48	U	0.38	0.48	24	µg/L	1	6/29/2016 12:24 AM
Bis(2-chloroethoxy) methane	0.48	U	0.29	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Bis(2-chloroethyl) ether	0.48	U	0.22	0.48	0.96	µg/L	1	6/29/2016 12:24 AM
Bis(2-chloroisopropyl)ether	0.48	UYZ	0.23	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Bis(2-ethylhexyl) phthalate	0.48	U	0.26	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Butyl benzyl phthalate	0.48	U	0.23	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Carbazole	0.48	U	0.092	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Di-n-butyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Di-n-octyl phthalate	0.48	U	0.19	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Dibenzofuran	0.48	U	0.18	0.48	3.8	µg/L	1	6/29/2016 12:24 AM
Diethyl phthalate	0.48	U	0.16	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Dimethyl phthalate	0.48	U	0.17	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Hexachlorobenzene	0.48	U	0.23	0.48	0.96	µg/L	1	6/29/2016 12:24 AM
Hexachlorobutadiene	0.48	U	0.30	0.48	0.96	µg/L	1	6/29/2016 12:24 AM
Hexachloroethane	0.48	U	0.22	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Isophorone	0.96	U	0.93	0.96	4.8	µg/L	1	6/29/2016 12:24 AM
N-Nitroso-di-n-propylamine	0.48	U	0.31	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
N-Nitrosodimethylamine	0.48	UYQ	0.30	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
N-Nitrosodiphenylamine	0.48	U	0.15	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Nitrobenzene	0.48	U	0.25	0.48	2.9	µg/L	1	6/29/2016 12:24 AM
Pentachlorophenol	2.4	UYQ	1.6	2.4	4.8	µg/L	1	6/29/2016 12:24 AM
Phenol	0.48	UQ	0.13	0.48	4.8	µg/L	1	6/29/2016 12:24 AM
Surr: 2,4,6-Tribromophenol	83.1			43-140		%Rec	1	6/29/2016 12:24 AM
Surr: 2-Fluorobiphenyl	55.8			44-119		%Rec	1	6/29/2016 12:24 AM
Surr: 2-Fluorophenol	28.7	J		19-119		%Rec	1	6/29/2016 12:24 AM
Surr: Nitrobenzene-d5	50.1			44-120		%Rec	1	6/29/2016 12:24 AM
Surr: Phenol-d5	20.2	JQ		30-130		%Rec	1	6/29/2016 12:24 AM
Surr: Terphenyl-d14	79.0			50-134		%Rec	1	6/29/2016 12:24 AM

Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.027		0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
2-Methylnaphthalene	0.046	G	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Acenaphthene	0.048		0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Anthracene	0.021		0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Fluoranthene	0.051		0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Fluorene	0.043		0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 8:15:00 AM
Project: Camp Hero
Lab ID: 1606675-007 **Matrix:** Groundwater
Client Sample ID: MP-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Naphthalene	0.040	G	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Phenanthrene	0.16	G	0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Pyrene	0.045		0.019	0.019	0.019	µg/L	1	7/13/2016 3:33 PM
Surr: 2-Fluorobiphenyl	58.3			53-106		%Rec	1	7/13/2016 3:33 PM
Surr: Nitrobenzene-d5	68.0			55-111		%Rec	1	7/13/2016 3:33 PM
Surr: Terphenyl-d14	80.8			58-132		%Rec	1	7/13/2016 3:33 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/30/2016 12:35 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/30/2016 12:35 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/30/2016 12:35 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/30/2016 12:35 PM
Acetone	5.9	J	0.56	0.60	10	µg/L	1	6/30/2016 12:35 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Bromodichloromethane	0.60	UY	0.33	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/30/2016 12:35 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Methylene chloride	0.60	UQ	0.27	0.60	5.0	µg/L	1	6/30/2016 12:35 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/30/2016 12:35 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/19/2016 8:15:00 AM
Project:	Camp Hero		
Lab ID:	1606675-007	**Matrix:**	Groundwater
Client Sample ID:	MP-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/30/2016 12:35 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/30/2016 12:35 PM
Surr: 4-Bromofluorobenzene	91.1			85-114		%Rec	1	6/30/2016 12:35 PM
Surr: Dibromofluoromethane	88.1			80-119		%Rec	1	6/30/2016 12:35 PM
Surr: Toluene-d8	93.6			89-112		%Rec	1	6/30/2016 12:35 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/17/2016 8:20:00 AM
Project:	Camp Hero		
Lab ID:	1606675-008	**Matrix:**	Water
Client Sample ID:	TB-GW-061716-03		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/29/2016 11:12 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/29/2016 11:12 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/29/2016 11:12 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/29/2016 11:12 AM
Acetone	1.5	JY	0.56	0.60	10	µg/L	1	6/29/2016 11:12 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/29/2016 11:12 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/29/2016 11:12 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/29/2016 11:12 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/29/2016 11:12 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/29/2016 11:12 AM
Surr: 4-Bromofluorobenzene	94.6			85-114		%Rec	1	6/29/2016 11:12 AM
Surr: Dibromofluoromethane	82.0			80-119		%Rec	1	6/29/2016 11:12 AM
Surr: Toluene-d8	90.7			89-112		%Rec	1	6/29/2016 11:12 AM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/19/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606675-009	**Matrix:**	Water
Client Sample ID:	TB-GW-061916-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/29/2016 11:38 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/29/2016 11:38 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/29/2016 11:38 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/29/2016 11:38 AM
Acetone	5.8	JY	0.56	0.60	10	µg/L	1	6/29/2016 11:38 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/29/2016 11:38 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/29/2016 11:38 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/29/2016 11:38 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/29/2016 11:38 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/29/2016 11:38 AM
Surr: 4-Bromofluorobenzene	92.7			85-114		%Rec	1	6/29/2016 11:38 AM
Surr: Dibromofluoromethane	80.4			80-119		%Rec	1	6/29/2016 11:38 AM
Surr: Toluene-d8	91.9			89-112		%Rec	1	6/29/2016 11:38 AM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/19/2016 8:10:00 AM
Project:	Camp Hero		
Lab ID:	1606675-010	**Matrix:**	Water
Client Sample ID:	TB-GW-061916-02		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/29/2016 12:04 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/29/2016 12:04 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/29/2016 12:04 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/29/2016 12:04 PM
Acetone	1.7	JY	0.56	0.60	10	µg/L	1	6/29/2016 12:04 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Chlorodibromomethane	0.60	U	0.27	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/29/2016 12:04 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	6/29/2016 12:04 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/29/2016 12:04 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/29/2016 12:04 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/29/2016 12:04 PM
Surr: 4-Bromofluorobenzene	93.6			85-114		%Rec	1	6/29/2016 12:04 PM
Surr: Dibromofluoromethane	81.8			80-119		%Rec	1	6/29/2016 12:04 PM
Surr: Toluene-d8	93.8			89-112		%Rec	1	6/29/2016 12:04 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/20/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606675-011	**Matrix:**	Water
Client Sample ID:	TB-GW-062016-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/30/2016 1:02 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/30/2016 1:02 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/30/2016 1:02 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/30/2016 1:02 PM
Acetone	4.7	J	0.56	0.60	10	µg/L	1	6/30/2016 1:02 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Bromodichloromethane	0.60	UY	0.33	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/30/2016 1:02 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Methylene chloride	0.60	UQ	0.27	0.60	5.0	µg/L	1	6/30/2016 1:02 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/30/2016 1:02 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/30/2016 1:02 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/30/2016 1:02 PM
Surr: 4-Bromofluorobenzene	91.6			85-114		%Rec	1	6/30/2016 1:02 PM
Surr: Dibromofluoromethane	85.2			80-119		%Rec	1	6/30/2016 1:02 PM
Surr: Toluene-d8	93.8			89-112		%Rec	1	6/30/2016 1:02 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606675-012 **Matrix:** Groundwater
Client Sample ID: 203-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.041	U	0.033	0.041	0.10	µg/L	1	7/6/2016 9:29 PM
Aroclor 1221	0.041	U	0.031	0.041	0.10	µg/L	1	7/6/2016 9:29 PM
Aroclor 1232	0.042	U	0.042	0.042	0.20	µg/L	1	7/6/2016 9:29 PM
Aroclor 1242	0.041	U	0.038	0.041	0.20	µg/L	1	7/6/2016 9:29 PM
Aroclor 1248	0.041	U	0.032	0.041	0.10	µg/L	1	7/6/2016 9:29 PM
Aroclor 1254	0.041	U	0.041	0.041	0.20	µg/L	1	7/6/2016 9:29 PM
Aroclor 1260	0.041	U	0.036	0.041	0.20	µg/L	1	7/6/2016 9:29 PM
Aroclor 1262	0.10	U	0.052	0.10	0.20	µg/L	1	7/6/2016 9:29 PM
Aroclor 1268	0.041	U	0.029	0.041	0.10	µg/L	1	7/6/2016 9:29 PM
Surr: Tetrachloro-m-xylene	75.1			40-135		%Rec	1	7/6/2016 9:29 PM
Surr: Decachlorobiphenyl	72.9			40-135		%Rec	1	7/6/2016 9:29 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	19,000		6.9	12	250	µg/L	25	8/4/2016 7:25 PM
Arsenic	5.3		0.61	1.0	1.5	µg/L	5	8/3/2016 4:09 PM
Barium	150		0.18	0.50	25	µg/L	5	8/3/2016 4:09 PM
Beryllium	0.28	J	0.25	0.50	1.0	µg/L	5	8/3/2016 4:09 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	8/3/2016 4:09 PM
Calcium	6,600		90	120	1,000	µg/L	5	8/3/2016 4:09 PM
Chromium	31		0.30	0.50	10	µg/L	5	8/3/2016 4:09 PM
Cobalt	9.4	G	0.12	0.50	5.0	µg/L	5	8/8/2016 11:52 AM
Copper	19		0.24	0.50	5.0	µg/L	5	8/8/2016 11:52 AM
Iron	21,000		48	120	200	µg/L	5	8/3/2016 4:09 PM
Lead	7.1		0.24	0.50	1.0	µg/L	5	8/3/2016 4:09 PM
Magnesium	7,300		41	120	500	µg/L	5	8/3/2016 4:09 PM
Manganese	770		0.26	0.50	5.0	µg/L	5	8/3/2016 4:09 PM
Nickel	19	G	0.20	0.50	10	µg/L	5	8/8/2016 11:52 AM
Potassium	5,200		110	120	500	µg/L	5	8/3/2016 4:09 PM
Selenium	2.5	J	1.5	2.5	5.0	µg/L	5	8/3/2016 4:09 PM
Sodium	12,000		58	120	500	µg/L	5	8/3/2016 4:09 PM
Thallium	0.42	J	0.16	0.50	2.0	µg/L	5	8/3/2016 4:09 PM
Vanadium	35		0.49	0.50	4.0	µg/L	5	8/3/2016 4:09 PM
Zinc	67		1.8	2.5	50	µg/L	5	8/3/2016 4:09 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.23	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 3:16 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 3:16 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.50	U	0.26	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
1,2-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
1,3-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
1,4-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/29/2016 12:49 AM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606675-012 **Matrix:** Groundwater
Client Sample ID: 203-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.50	U	0.26	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
2,4,6-Trichlorophenol	0.50	U	0.30	0.50	4.0	µg/L	1	6/29/2016 12:49 AM
2,4-Dichlorophenol	0.50	U	0.20	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
2,4-Dimethyl phenol	1.0	U	0.55	1.0	5.0	µg/L	1	6/29/2016 12:49 AM
2,4-Dinitrophenol	10	U	5.7	10	25	µg/L	1	6/29/2016 12:49 AM
2,4-Dinitrotoluene	0.50	U	0.25	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
2,6-Dinitrotoluene	0.50	U	0.28	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
2-Chloronaphthalene	1.0	U	0.69	1.0	5.0	µg/L	1	6/29/2016 12:49 AM
2-Chlorophenol	0.50	U	0.19	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
2-Methylphenol (o-Cresol)	0.50	U	0.18	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
2-Nitroaniline	0.50	U	0.24	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
2-Nitrophenol	0.50	U	0.24	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
3,3´-Dichlorobenzidine	10	U	5.5	10	20	µg/L	1	6/29/2016 12:49 AM
3-Nitroaniline	1.0	U	0.34	1.0	10	µg/L	1	6/29/2016 12:49 AM
3/4-Methylphenol [m/p-Cresol]	1.0	U	0.38	1.0	10	µg/L	1	6/29/2016 12:49 AM
4,6-Dinitro-2-methylphenol	2.5	UY	1.6	2.5	10	µg/L	1	6/29/2016 12:49 AM
4-Bromophenyl phenyl ether	2.5	U	1.0	2.5	5.0	µg/L	1	6/29/2016 12:49 AM
4-Chloro-3-methylphenol	0.50	U	0.24	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
4-Chloroaniline [p-Chloroaniline]	0.50	U	0.34	0.50	10	µg/L	1	6/29/2016 12:49 AM
4-Chlorophenyl phenyl ether	0.50	U	0.18	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
4-Nitroaniline	0.50	U	0.20	0.50	10	µg/L	1	6/29/2016 12:49 AM
4-Nitrophenol	10	UQ	4.6	10	25	µg/L	1	6/29/2016 12:49 AM
Benzoic acid	10	UY QZ	3.7	10	25	µg/L	1	6/29/2016 12:49 AM
Benzyl alcohol	0.50	U	0.39	0.50	25	µg/L	1	6/29/2016 12:49 AM
Bis(2-chloroethoxy) methane	0.50	U	0.30	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Bis(2-chloroethyl) ether	0.50	U	0.23	0.50	1.0	µg/L	1	6/29/2016 12:49 AM
Bis(2-chloroisopropyl)ether	0.50	UY Z	0.24	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Bis(2-ethylhexyl) phthalate	0.50	U	0.27	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Butyl benzyl phthalate	0.50	U	0.24	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Carbazole	0.50	U	0.096	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Di-n-butyl phthalate	0.50	U	0.20	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Di-n-octyl phthalate	0.50	U	0.19	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Dibenzofuran	0.50	U	0.19	0.50	4.0	µg/L	1	6/29/2016 12:49 AM
Diethyl phthalate	0.19	J	0.16	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Dimethyl phthalate	0.50	U	0.17	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Hexachlorobenzene	0.50	U	0.24	0.50	1.0	µg/L	1	6/29/2016 12:49 AM
Hexachlorobutadiene	0.50	U	0.31	0.50	1.0	µg/L	1	6/29/2016 12:49 AM
Hexachloroethane	0.50	U	0.23	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Isophorone	1.0	U	0.97	1.0	5.0	µg/L	1	6/29/2016 12:49 AM
N-Nitroso-di-n-propylamine	0.50	U	0.32	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
N-Nitrosodimethylamine	0.50	UY Q	0.31	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
N-Nitrosodiphenylamine	0.50	U	0.16	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Nitrobenzene	0.50	U	0.26	0.50	3.0	µg/L	1	6/29/2016 12:49 AM
Pentachlorophenol	2.5	UY Q	1.6	2.5	5.0	µg/L	1	6/29/2016 12:49 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606675-012 **Matrix:** Groundwater
Client Sample ID: 203-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Phenol	0.50	UQ	0.14	0.50	5.0	µg/L	1	6/29/2016 12:49 AM
Surr: 2,4,6-Tribromophenol	80.9			43-140		%Rec	1	6/29/2016 12:49 AM
Surr: 2-Fluorobiphenyl	56.2			44-119		%Rec	1	6/29/2016 12:49 AM
Surr: 2-Fluorophenol	31.2	J		19-119		%Rec	1	6/29/2016 12:49 AM
Surr: Nitrobenzene-d5	53.2			44-120		%Rec	1	6/29/2016 12:49 AM
Surr: Phenol-d5	21.0	JQ		30-130		%Rec	1	6/29/2016 12:49 AM
Surr: Terphenyl-d14	80.9			50-134		%Rec	1	6/29/2016 12:49 AM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.054		0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
2-Methylnaphthalene	0.072		0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Acenaphthene	0.18		0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Anthracene	0.023		0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Benzo(b)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Fluoranthene	0.091		0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Fluorene	0.18		0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Naphthalene	0.032		0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Phenanthrene	0.23		0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Pyrene	0.061		0.020	0.020	0.020	µg/L	1	8/1/2016 4:47 PM
Surr: 2-Fluorobiphenyl	79.9			53-106		%Rec	1	8/1/2016 4:47 PM
Surr: Nitrobenzene-d5	82.4			55-111		%Rec	1	8/1/2016 4:47 PM
Surr: Terphenyl-d14	225	JQ		58-132		%Rec	1	8/1/2016 4:47 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/30/2016 1:58 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/30/2016 1:58 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	6/30/2016 1:58 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/30/2016 1:58 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606675-012 **Matrix:** Groundwater
Client Sample ID: 203-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Acetone	5.1	J	0.56	0.60	10	µg/L	1	6/30/2016 1:58 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Bromodichloromethane	0.60	UY	0.33	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/30/2016 1:58 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Methylene chloride	0.60	UQ	0.27	0.60	5.0	µg/L	1	6/30/2016 1:58 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/30/2016 1:58 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/30/2016 1:58 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/30/2016 1:58 PM
Surr: 4-Bromofluorobenzene	93.6			85-114		%Rec	1	6/30/2016 1:58 PM
Surr: Dibromofluoromethane	86.3			80-119		%Rec	1	6/30/2016 1:58 PM
Surr: Toluene-d8	94.2			89-112		%Rec	1	6/30/2016 1:58 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606675-013 **Matrix:** Groundwater
Client Sample ID: H21-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.040	U	0.032	0.040	0.10	µg/L	1	7/6/2016 9:54 PM
Aroclor 1221	0.040	U	0.030	0.040	0.10	µg/L	1	7/6/2016 9:54 PM
Aroclor 1232	0.041	U	0.041	0.041	0.20	µg/L	1	7/6/2016 9:54 PM
Aroclor 1242	0.040	U	0.037	0.040	0.20	µg/L	1	7/6/2016 9:54 PM
Aroclor 1248	0.040	U	0.031	0.040	0.10	µg/L	1	7/6/2016 9:54 PM
Aroclor 1254	0.040	U	0.040	0.040	0.20	µg/L	1	7/6/2016 9:54 PM
Aroclor 1260	0.040	U	0.035	0.040	0.20	µg/L	1	7/6/2016 9:54 PM
Aroclor 1262	0.10	U	0.052	0.10	0.20	µg/L	1	7/6/2016 9:54 PM
Aroclor 1268	0.040	U	0.028	0.040	0.10	µg/L	1	7/6/2016 9:54 PM
Surr: Tetrachloro-m-xylene	83.2			40-135		%Rec	1	7/6/2016 9:54 PM
Surr: Decachlorobiphenyl	52.0			40-135		%Rec	1	7/6/2016 9:54 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	4,700		14	25	500	µg/L	50	8/4/2016 5:04 PM
Arsenic	1.0	U	0.61	1.0	1.5	µg/L	5	8/3/2016 4:21 PM
Barium	57		0.18	0.50	25	µg/L	5	8/4/2016 7:40 PM
Beryllium	0.50	U	0.25	0.50	1.0	µg/L	5	8/3/2016 4:21 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	8/3/2016 4:21 PM
Calcium	5,000		90	120	1,000	µg/L	5	8/3/2016 4:21 PM
Chromium	6.3	J	0.30	0.50	10	µg/L	5	8/3/2016 4:21 PM
Cobalt	6.8		0.12	0.50	5.0	µg/L	5	8/4/2016 7:40 PM
Copper	4.1	J	0.24	0.50	5.0	µg/L	5	8/4/2016 7:40 PM
Iron	4,700		48	120	200	µg/L	5	8/3/2016 4:21 PM
Lead	2.1		0.24	0.50	1.0	µg/L	5	8/3/2016 4:21 PM
Magnesium	4,500	X	41	120	500	µg/L	5	8/3/2016 4:21 PM
Manganese	830		0.26	0.50	5.0	µg/L	5	8/3/2016 4:21 PM
Nickel	9.8	J	0.20	0.50	10	µg/L	5	8/4/2016 7:40 PM
Potassium	3,000		110	120	500	µg/L	5	8/3/2016 4:21 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	8/3/2016 4:21 PM
Sodium	21,000	Q	580	1,200	5,000	µg/L	50	8/4/2016 5:04 PM
Thallium	0.50	U	0.16	0.50	2.0	µg/L	5	8/3/2016 4:21 PM
Vanadium	7.7		0.49	0.50	4.0	µg/L	5	8/3/2016 4:21 PM
Zinc	11	J	1.8	2.5	50	µg/L	5	8/3/2016 4:21 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.75	UG	0.19	0.75	2.5	µg/L	5	7/12/2016 3:17 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 3:17 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.49	U	0.25	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
1,2-Dichlorobenzene	0.49	U	0.20	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
1,3-Dichlorobenzene	0.49	U	0.20	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
1,4-Dichlorobenzene	0.49	U	0.20	0.49	4.9	µg/L	1	6/29/2016 1:14 AM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606675-013 **Matrix:** Groundwater
Client Sample ID: H21-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.49	U	0.25	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
2,4,6-Trichlorophenol	0.49	U	0.29	0.49	3.9	µg/L	1	6/29/2016 1:14 AM
2,4-Dichlorophenol	0.49	U	0.19	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
2,4-Dimethyl phenol	0.97	U	0.54	0.97	4.9	µg/L	1	6/29/2016 1:14 AM
2,4-Dinitrophenol	9.7	U	5.5	9.7	24	µg/L	1	6/29/2016 1:14 AM
2,4-Dinitrotoluene	0.49	U	0.24	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
2,6-Dinitrotoluene	0.49	U	0.27	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
2-Chloronaphthalene	0.97	U	0.67	0.97	4.9	µg/L	1	6/29/2016 1:14 AM
2-Chlorophenol	0.49	U	0.18	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
2-Methylphenol (o-Cresol)	0.49	U	0.17	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
2-Nitroaniline	0.49	U	0.24	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
2-Nitrophenol	0.49	U	0.23	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
3,3´-Dichlorobenzidine	9.7	U	5.4	9.7	19	µg/L	1	6/29/2016 1:14 AM
3-Nitroaniline	0.97	U	0.33	0.97	9.7	µg/L	1	6/29/2016 1:14 AM
3/4-Methylphenol [m/p-Cresol]	0.97	U	0.37	0.97	9.7	µg/L	1	6/29/2016 1:14 AM
4,6-Dinitro-2-methylphenol	2.4	UY	1.5	2.4	9.7	µg/L	1	6/29/2016 1:14 AM
4-Bromophenyl phenyl ether	2.4	U	0.98	2.4	4.9	µg/L	1	6/29/2016 1:14 AM
4-Chloro-3-methylphenol	0.49	U	0.24	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
4-Chloroaniline [p-Chloroaniline]	0.49	U	0.33	0.49	9.7	µg/L	1	6/29/2016 1:14 AM
4-Chlorophenyl phenyl ether	0.49	U	0.17	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
4-Nitroaniline	0.49	U	0.19	0.49	9.7	µg/L	1	6/29/2016 1:14 AM
4-Nitrophenol	9.7	UQ	4.5	9.7	24	µg/L	1	6/29/2016 1:14 AM
Benzoic acid	9.7	UY QZ	3.6	9.7	24	µg/L	1	6/29/2016 1:14 AM
Benzyl alcohol	0.49	U	0.38	0.49	24	µg/L	1	6/29/2016 1:14 AM
Bis(2-chloroethoxy) methane	0.49	U	0.29	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Bis(2-chloroethyl) ether	0.49	U	0.23	0.49	0.97	µg/L	1	6/29/2016 1:14 AM
Bis(2-chloroisopropyl)ether	0.49	UY Z	0.23	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Bis(2-ethylhexyl) phthalate	0.49	U	0.26	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Butyl benzyl phthalate	0.49	U	0.24	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Carbazole	0.49	U	0.093	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Di-n-butyl phthalate	0.49	U	0.19	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Di-n-octyl phthalate	0.49	U	0.19	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Dibenzofuran	0.49	U	0.19	0.49	3.9	µg/L	1	6/29/2016 1:14 AM
Diethyl phthalate	0.49	J	0.16	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Dimethyl phthalate	0.49	U	0.17	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Hexachlorobenzene	0.49	U	0.23	0.49	0.97	µg/L	1	6/29/2016 1:14 AM
Hexachlorobutadiene	0.49	U	0.30	0.49	0.97	µg/L	1	6/29/2016 1:14 AM
Hexachloroethane	0.49	U	0.23	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Isophorone	0.97	U	0.94	0.97	4.9	µg/L	1	6/29/2016 1:14 AM
N-Nitroso-di-n-propylamine	0.49	U	0.31	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
N-Nitrosodimethylamine	0.49	UY Q	0.30	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
N-Nitrosodiphenylamine	0.49	U	0.15	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Nitrobenzene	0.49	U	0.26	0.49	2.9	µg/L	1	6/29/2016 1:14 AM
Pentachlorophenol	2.4	UY Q	1.6	2.4	4.9	µg/L	1	6/29/2016 1:14 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 12:30:00 PM
Project: Camp Hero
Lab ID: 1606675-013 **Matrix:** Groundwater
Client Sample ID: H21-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Phenol	0.49	UQ	0.14	0.49	4.9	µg/L	1	6/29/2016 1:14 AM
Surr: 2,4,6-Tribromophenol	77.0			43-140		%Rec	1	6/29/2016 1:14 AM
Surr: 2-Fluorobiphenyl	52.5			44-119		%Rec	1	6/29/2016 1:14 AM
Surr: 2-Fluorophenol	27.8	J		19-119		%Rec	1	6/29/2016 1:14 AM
Surr: Nitrobenzene-d5	50.0			44-120		%Rec	1	6/29/2016 1:14 AM
Surr: Phenol-d5	18.1	JQ		30-130		%Rec	1	6/29/2016 1:14 AM
Surr: Terphenyl-d14	83.6			50-134		%Rec	1	6/29/2016 1:14 AM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.026		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
2-Methylnaphthalene	0.041		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Acenaphthene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Benz(a)anthracene	0.059		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Benzo(a)pyrene	0.039		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Benzo(b)fluoranthene	0.074		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Benzo(k)fluoranthene	0.037		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Chrysene	0.049		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Fluoranthene	0.060		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Fluorene	0.025		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Naphthalene	0.046		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Phenanthrene	0.040		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Pyrene	0.053		0.020	0.020	0.020	µg/L	1	8/1/2016 5:15 PM
Surr: 2-Fluorobiphenyl	129	Q		53-106		%Rec	1	8/1/2016 5:15 PM
Surr: Nitrobenzene-d5	140	Q		55-111		%Rec	1	8/1/2016 5:15 PM
Surr: Terphenyl-d14	168	Q		58-132		%Rec	1	8/1/2016 5:15 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	6/30/2016 2:24 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	6/30/2016 2:24 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
2-Butanone [MEK]	3.6	J	2.3	5.0	10	µg/L	1	6/30/2016 2:24 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	6/30/2016 2:24 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/19/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606675-013	**Matrix:**	Groundwater
Client Sample ID:	H21-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Acetone	3.6	J	0.56	0.60	10	µg/L	1	6/30/2016 2:24 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Bromodichloromethane	0.60	UY	0.33	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Bromoform	0.60	U	0.25	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Chlorodibromomethane	0.60	UY	0.27	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	6/30/2016 2:24 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Methylene chloride	0.60	UQ	0.27	0.60	5.0	µg/L	1	6/30/2016 2:24 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	6/30/2016 2:24 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	6/30/2016 2:24 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	6/30/2016 2:24 PM
Surr: 4-Bromofluorobenzene	92.5			85-114		%Rec	1	6/30/2016 2:24 PM
Surr: Dibromofluoromethane	90.4			80-119		%Rec	1	6/30/2016 2:24 PM
Surr: Toluene-d8	92.7			89-112		%Rec	1	6/30/2016 2:24 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606675-014 **Matrix:** Groundwater
Client Sample ID: WDS-SB07-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.043	U	0.034	0.043	0.11	µg/L	1	7/6/2016 11:07 PM
Aroclor 1221	0.043	U	0.032	0.043	0.11	µg/L	1	7/6/2016 11:07 PM
Aroclor 1232	0.044	U	0.044	0.044	0.22	µg/L	1	7/6/2016 11:07 PM
Aroclor 1242	0.043	U	0.040	0.043	0.22	µg/L	1	7/6/2016 11:07 PM
Aroclor 1248	0.043	U	0.033	0.043	0.11	µg/L	1	7/6/2016 11:07 PM
Aroclor 1254	0.043	U	0.043	0.043	0.22	µg/L	1	7/6/2016 11:07 PM
Aroclor 1260	0.043	U	0.038	0.043	0.22	µg/L	1	7/6/2016 11:07 PM
Aroclor 1262	0.11	U	0.055	0.11	0.22	µg/L	1	7/6/2016 11:07 PM
Aroclor 1268	0.043	U	0.030	0.043	0.11	µg/L	1	7/6/2016 11:07 PM
Surr: Tetrachloro-m-xylene	49.3			40-135		%Rec	1	7/6/2016 11:07 PM
Surr: Decachlorobiphenyl	23.1	Q		40-135		%Rec	1	7/6/2016 11:07 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	1,200,000		140	250	5,000	µg/L	500	8/4/2016 6:17 PM
Arsenic	23		0.61	1.0	1.5	µg/L	5	8/3/2016 4:11 PM
Barium	6,000		18	50	2,500	µg/L	500	8/4/2016 6:17 PM
Beryllium	28		0.25	0.50	1.0	µg/L	5	8/3/2016 4:11 PM
Cadmium	5.7		0.27	0.50	1.0	µg/L	5	8/3/2016 4:11 PM
Calcium	110,000		900	1,200	10,000	µg/L	50	8/4/2016 4:59 PM
Chromium	1,100		3.0	5.0	100	µg/L	50	8/4/2016 4:59 PM
Cobalt	160		1.2	5.0	50	µg/L	50	8/4/2016 4:59 PM
Copper	520		2.4	5.0	50	µg/L	50	8/4/2016 4:59 PM
Iron	380,000		480	1,200	2,000	µg/L	50	8/4/2016 4:59 PM
Lead	270		0.24	0.50	1.0	µg/L	5	8/3/2016 4:11 PM
Magnesium	120,000		410	1,200	5,000	µg/L	50	8/4/2016 4:59 PM
Manganese	4,700		2.6	5.0	50	µg/L	50	8/4/2016 4:59 PM
Nickel	550		2.1	5.0	100	µg/L	50	8/4/2016 4:59 PM
Potassium	78,000		1,100	1,200	5,000	µg/L	50	8/4/2016 4:59 PM
Selenium	24		1.5	2.5	5.0	µg/L	5	8/3/2016 4:11 PM
Sodium	23,000	Q	580	1,200	5,000	µg/L	50	8/4/2016 4:59 PM
Thallium	8.2		0.16	0.50	2.0	µg/L	5	8/3/2016 4:11 PM
Vanadium	810		4.9	5.0	40	µg/L	50	8/4/2016 4:59 PM
Zinc	1,300		1.8	2.5	50	µg/L	5	8/3/2016 4:11 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.66	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:12 PM
Silver	0.88	J	0.24	0.50	1.5	µg/L	5	7/12/2016 5:12 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.50	U	0.26	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
1,2-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
1,3-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
1,4-Dichlorobenzene	0.50	U	0.21	0.50	5.0	µg/L	1	6/29/2016 1:39 AM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606675-014 **Matrix:** Groundwater
Client Sample ID: WDS-SB07-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	0.50	U	0.26	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
2,4,6-Trichlorophenol	0.50	U	0.30	0.50	4.0	µg/L	1	6/29/2016 1:39 AM
2,4-Dichlorophenol	0.50	U	0.20	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
2,4-Dimethyl phenol	1.0	U	0.55	1.0	5.0	µg/L	1	6/29/2016 1:39 AM
2,4-Dinitrophenol	10	U	5.7	10	25	µg/L	1	6/29/2016 1:39 AM
2,4-Dinitrotoluene	0.50	U	0.25	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
2,6-Dinitrotoluene	0.50	U	0.28	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
2-Chloronaphthalene	1.0	U	0.69	1.0	5.0	µg/L	1	6/29/2016 1:39 AM
2-Chlorophenol	0.50	U	0.19	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
2-Methylphenol (o-Cresol)	0.50	U	0.18	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
2-Nitroaniline	0.50	U	0.24	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
2-Nitrophenol	0.50	U	0.24	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
3,3´-Dichlorobenzidine	10	U	5.5	10	20	µg/L	1	6/29/2016 1:39 AM
3-Nitroaniline	1.0	U	0.34	1.0	10	µg/L	1	6/29/2016 1:39 AM
3/4-Methylphenol [m/p-Cresol]	1.0	U	0.38	1.0	10	µg/L	1	6/29/2016 1:39 AM
4,6-Dinitro-2-methylphenol	2.5	UY	1.6	2.5	10	µg/L	1	6/29/2016 1:39 AM
4-Bromophenyl phenyl ether	2.5	U	1.0	2.5	5.0	µg/L	1	6/29/2016 1:39 AM
4-Chloro-3-methylphenol	0.50	U	0.24	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
4-Chloroaniline [p-Chloroaniline]	0.50	U	0.34	0.50	10	µg/L	1	6/29/2016 1:39 AM
4-Chlorophenyl phenyl ether	0.50	U	0.18	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
4-Nitroaniline	0.50	U	0.20	0.50	10	µg/L	1	6/29/2016 1:39 AM
4-Nitrophenol	10	UQ	4.6	10	25	µg/L	1	6/29/2016 1:39 AM
Benzoic acid	9.5	JY QZ	3.7	10	25	µg/L	1	6/29/2016 1:39 AM
Benzyl alcohol	0.50	U	0.39	0.50	25	µg/L	1	6/29/2016 1:39 AM
Bis(2-chloroethoxy) methane	0.50	U	0.30	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Bis(2-chloroethyl) ether	0.50	U	0.23	0.50	1.0	µg/L	1	6/29/2016 1:39 AM
Bis(2-chloroisopropyl)ether	0.50	UY Z	0.24	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Bis(2-ethylhexyl) phthalate	0.50	U	0.27	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Butyl benzyl phthalate	0.50	U	0.24	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Carbazole	0.50	U	0.096	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Di-n-butyl phthalate	0.50	U	0.20	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Di-n-octyl phthalate	0.50	U	0.19	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Dibenzofuran	0.50	U	0.19	0.50	4.0	µg/L	1	6/29/2016 1:39 AM
Diethyl phthalate	0.50	U	0.16	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Dimethyl phthalate	0.50	U	0.17	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Hexachlorobenzene	0.50	U	0.24	0.50	1.0	µg/L	1	6/29/2016 1:39 AM
Hexachlorobutadiene	0.50	U	0.31	0.50	1.0	µg/L	1	6/29/2016 1:39 AM
Hexachloroethane	0.50	U	0.23	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Isophorone	1.0	U	0.97	1.0	5.0	µg/L	1	6/29/2016 1:39 AM
N-Nitroso-di-n-propylamine	0.50	U	0.32	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
N-Nitrosodimethylamine	0.50	UY Q	0.31	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
N-Nitrosodiphenylamine	0.50	U	0.16	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Nitrobenzene	0.50	U	0.26	0.50	3.0	µg/L	1	6/29/2016 1:39 AM
Pentachlorophenol	2.5	UY Q	1.6	2.5	5.0	µg/L	1	6/29/2016 1:39 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 11:15:00 AM
Project: Camp Hero
Lab ID: 1606675-014 **Matrix:** Groundwater
Client Sample ID: WDS-SB07-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Phenol	0.50	UQ	0.14	0.50	5.0	µg/L	1	6/29/2016 1:39 AM
Surr: 2,4,6-Tribromophenol	67.3			43-140		%Rec	1	6/29/2016 1:39 AM
Surr: 2-Fluorobiphenyl	54.1			44-119		%Rec	1	6/29/2016 1:39 AM
Surr: 2-Fluorophenol	33.1	J		19-119		%Rec	1	6/29/2016 1:39 AM
Surr: Nitrobenzene-d5	56.1			44-120		%Rec	1	6/29/2016 1:39 AM
Surr: Phenol-d5	22.7	JQ		30-130		%Rec	1	6/29/2016 1:39 AM
Surr: Terphenyl-d14	53.9			50-134		%Rec	1	6/29/2016 1:39 AM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.10		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
2-Methylnaphthalene	0.15		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Acenaphthene	0.033		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Benz(a)anthracene	0.059		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Benzo(a)pyrene	0.054		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Benzo(b)fluoranthene	0.11		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Benzo(g,h,i)perylene	0.023		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Benzo(k)fluoranthene	0.042		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Chrysene	0.068		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Fluoranthene	0.17		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Fluorene	0.020	U	0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Indeno(1,2,3-cd)pyrene	0.023		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Naphthalene	0.12		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Phenanthrene	0.10		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Pyrene	0.15		0.020	0.020	0.020	µg/L	1	8/1/2016 5:43 PM
Surr: 2-Fluorobiphenyl	80.3			53-106		%Rec	1	8/1/2016 5:43 PM
Surr: Nitrobenzene-d5	91.2			55-111		%Rec	1	8/1/2016 5:43 PM
Surr: Terphenyl-d14	74.5			58-132		%Rec	1	8/1/2016 5:43 PM
TCL for VOA			**Method: 8260C**					**Analyst: AS1**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	3.0	UH	2.1	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
1,1,1-Trichloroethane	3.0	UH	2.9	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
1,1,2,2-Tetrachloroethane	3.0	UH	2.2	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
1,1,2-Trichloroethane	3.0	UH	2.4	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
1,1-Dichloroethane	5.0	UH	3.7	5.0	10	µg/L	5	7/12/2016 7:02 PM
1,1-Dichloroethene	3.0	UH	2.4	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
1,2,3-Trichloropropane	3.0	UH	1.6	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
1,2-Dibromo-3-chloropropane	10	UZH	5.1	10	25	µg/L	5	7/12/2016 7:02 PM
1,2-Dibromoethane	3.0	UH	2.7	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
1,2-Dichloroethane	3.0	UH	1.4	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
1,2-Dichloropropane	3.0	UH	2.1	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
2-Butanone [MEK]	25	UH	11	25	50	µg/L	5	7/12/2016 7:02 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/19/2016 11:15:00 AM
Project:	Camp Hero		
Lab ID:	1606675-014	**Matrix:**	Groundwater
Client Sample ID:	WDS-SB07-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2-Hexanone	5.0	UH	3.2	5.0	10	µg/L	5	7/12/2016 7:02 PM
Acetone	3.0	UH	2.8	3.0	50	µg/L	5	7/12/2016 7:02 PM
Benzene	3.0	UH	1.9	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Bromodichloromethane	3.0	UX QH	1.6	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Bromoform	3.0	UX ZH	1.2	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Carbon disulfide	3.0	UH	2.7	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Carbon tetrachloride	3.0	UH	2.0	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Chlorobenzene	3.0	UH	2.4	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Chlorodibromomethane	3.0	UX QH	1.3	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Chloroethane	5.0	UH	3.4	5.0	10	µg/L	5	7/12/2016 7:02 PM
Chloroform	3.0	UH	2.3	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Chloromethane	3.0	UH	1.8	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
cis-1,2-Dichloroethene	3.0	UH	2.2	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
cis-1,3-Dichloropropene	3.0	UX H	1.3	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Dichlorodifluoromethane [Freon-12]	3.0	UH	2.3	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Ethylbenzene	3.0	UH	2.2	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Methylene chloride	3.4	JH	1.3	3.0	25	µg/L	5	7/12/2016 7:02 PM
Styrene	3.0	UX QH	1.5	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Tetrachloroethene	3.0	UH	2.8	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Toluene	3.0	UH	2.5	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
trans-1,2-Dichloroethene	3.0	UH	1.6	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
trans-1,3-Dichloropropene	3.0	UZ H	2.5	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Trichloroethene	3.0	UH	2.4	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Trichlorofluoromethane [Freon-11]	3.0	UH	2.8	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Vinyl acetate	3.0	UH	1.8	3.0	25	µg/L	5	7/12/2016 7:02 PM
Vinyl chloride	3.0	UH	2.6	3.0	5.0	µg/L	5	7/12/2016 7:02 PM
Xylene (total)	9.0	UH	6.6	9.0	15	µg/L	5	7/12/2016 7:02 PM
Surr: 4-Bromofluorobenzene	88.9	H		85-114		%Rec	5	7/12/2016 7:02 PM
Surr: Dibromofluoromethane	95.1	H		80-119		%Rec	5	7/12/2016 7:02 PM
Surr: Toluene-d8	89.9	H		89-112		%Rec	5	7/12/2016 7:02 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/19/2016 9:47:00 AM
Project: Camp Hero
Lab ID: 1606675-015 **Matrix:** Groundwater
Client Sample ID: 034-SB01-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	7/6/2016 11:32 PM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	7/6/2016 11:32 PM
Aroclor 1232	0.038	U	0.038	0.038	0.19	µg/L	1	7/6/2016 11:32 PM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	7/6/2016 11:32 PM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	7/6/2016 11:32 PM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	7/6/2016 11:32 PM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	7/6/2016 11:32 PM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	7/6/2016 11:32 PM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	7/6/2016 11:32 PM
Surr: Tetrachloro-m-xylene	53.1			40-135		%Rec	1	7/6/2016 11:32 PM
Surr: Decachlorobiphenyl	28.9	Q		40-135		%Rec	1	7/6/2016 11:32 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	430,000		6.9	12	250	µg/L	25	8/4/2016 7:29 PM
Arsenic	19		0.61	1.0	1.5	µg/L	5	8/3/2016 4:14 PM
Barium	740		0.92	2.5	120	µg/L	25	8/4/2016 7:29 PM
Beryllium	8.1		0.25	0.50	1.0	µg/L	5	8/3/2016 4:14 PM
Cadmium	1.7		0.27	0.50	1.0	µg/L	5	8/3/2016 4:14 PM
Calcium	38,000		90	120	1,000	µg/L	5	8/3/2016 4:14 PM
Chromium	340		0.30	0.50	10	µg/L	5	8/3/2016 4:14 PM
Cobalt	51		0.60	2.5	25	µg/L	25	8/4/2016 7:29 PM
Copper	110		1.2	2.5	25	µg/L	25	8/4/2016 7:29 PM
Iron	100,000		240	620	1,000	µg/L	25	8/4/2016 7:29 PM
Lead	88		0.24	0.50	1.0	µg/L	5	8/3/2016 4:14 PM
Magnesium	14,000		41	120	500	µg/L	5	8/3/2016 4:14 PM
Manganese	2,900		1.3	2.5	25	µg/L	25	8/4/2016 7:29 PM
Nickel	150		1.0	2.5	50	µg/L	25	8/4/2016 7:29 PM
Potassium	9,400		110	120	500	µg/L	5	8/3/2016 4:14 PM
Selenium	11		1.5	2.5	5.0	µg/L	5	8/3/2016 4:14 PM
Sodium	15,000		58	120	500	µg/L	5	8/3/2016 4:14 PM
Thallium	1.3	J	0.16	0.50	2.0	µg/L	5	8/3/2016 4:14 PM
Vanadium	160		0.49	0.50	4.0	µg/L	5	8/3/2016 4:14 PM
Zinc	310		1.8	2.5	50	µg/L	5	8/3/2016 4:14 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.2	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:12 PM
Silver	0.74	J	0.24	0.50	1.5	µg/L	5	7/12/2016 5:12 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.11		0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
2-Methylnaphthalene	0.20		0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM

RTI Laboratories - Analytical Report

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/19/2016 9:47:00 AM
Project:	Camp Hero		
Lab ID:	1606675-015	**Matrix:**	Groundwater
Client Sample ID:	034-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Benzo(b)fluoranthene	0.037		0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Fluoranthene	0.035		0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Fluorene	0.071		0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Naphthalene	0.095		0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Phenanthrene	0.051		0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Pyrene	0.031		0.019	0.019	0.019	µg/L	1	8/1/2016 6:11 PM
Surr: 2-Fluorobiphenyl	149	Q		53-106		%Rec	1	8/1/2016 6:11 PM
Surr: Nitrobenzene-d5	182	Q		55-111		%Rec	1	8/1/2016 6:11 PM
Surr: Terphenyl-d14	162	Q		58-132		%Rec	1	8/1/2016 6:11 PM

RTI Laboratories - DATES REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606675-001A	WDS-SB11-GW	6/17/2016 1:30 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/30/2016 9:49 AM	6/30/2016 9:49 AM
1606675-001B	WDS-SB11-GW	6/17/2016 1:30 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 7:16 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	7/5/2016 12:00 AM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	7/28/2016 5:41 PM
1606675-001C	WDS-SB11-GW	6/17/2016 1:30 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 7:03 PM
1606675-001D	WDS-SB11-GW	6/17/2016 1:30 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/3/2016 2:56 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 4:25 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 5:47 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 7:02 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/8/2016 11:50 AM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 3:11 PM
1606675-002A	WDS-SB06-GW	6/17/2016 2:20 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/30/2016 10:15 AM	6/30/2016 10:15 AM
1606675-002B	WDS-SB06-GW	6/17/2016 2:20 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 7:40 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	7/28/2016 6:08 PM
1606675-002C	WDS-SB06-GW	6/17/2016 2:20 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 7:28 PM
1606675-002D	WDS-SB06-GW	6/17/2016 2:20 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/3/2016 4:01 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 4:49 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 6:07 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 7:16 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 3:12 PM
1606675-003A	WDS-SB09-GW	6/17/2016 11:15 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/30/2016 10:51 AM	6/30/2016 10:51 AM
1606675-003B	WDS-SB09-GW	6/17/2016 11:15 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 8:05 PM

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WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606675-003B	WDS-SB09-GW	6/17/2016 11:15 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	7/28/2016 6:35 PM
1606675-003C	WDS-SB09-GW	6/17/2016 11:15 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 7:52 PM
1606675-003D	WDS-SB09-GW	6/17/2016 11:15 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/3/2016 2:37 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 4:06 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 5:28 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 6:43 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/5/2016 1:29 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/5/2016 1:32 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/5/2016 1:35 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 3:13 PM
1606675-004A	H16-SB01-GW	6/19/2016 2:45 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/30/2016 11:17 AM	6/30/2016 11:17 AM
1606675-004B	H16-SB01-GW	6/19/2016 2:45 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 8:30 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	7/28/2016 7:03 PM
1606675-004C	H16-SB01-GW	6/19/2016 2:45 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 8:16 PM
				SW_8082A-Polychlorinated Biphenyls		7/12/2016 8:27 AM	7/19/2016 6:42 PM
1606675-004D	H16-SB01-GW	6/19/2016 2:45 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/3/2016 4:03 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 4:51 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 6:09 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 7:18 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/8/2016 11:51 AM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 3:13 PM
1606675-005A	H21-SB03-GW	6/19/2016 2:00 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/30/2016 11:43 AM	6/30/2016 11:43 AM
1606675-005B	H21-SB03-GW	6/19/2016 2:00 PM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 8:54 PM

RTI Laboratories - DATES REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606675-005B	H21-SB03-GW	6/19/2016 2:00 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	7/28/2016 7:30 PM
1606675-005C	H21-SB03-GW	6/19/2016 2:00 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 8:41 PM
1606675-005D	H21-SB03-GW	6/19/2016 2:00 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/3/2016 4:05 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 4:53 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 6:11 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 7:20 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 3:14 PM
1606675-006A	H21-SB02-GW	6/19/2016 10:00 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/30/2016 12:09 PM	6/30/2016 12:09 PM
1606675-006B	H21-SB02-GW	6/19/2016 10:00 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/21/2016 4:06 PM	6/26/2016 9:19 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	7/28/2016 7:58 PM
1606675-006C	H21-SB02-GW	6/19/2016 10:00 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 9:05 PM
1606675-006D	H21-SB02-GW	6/19/2016 10:00 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/3/2016 4:07 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 4:55 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 6:13 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 7:23 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 3:15 PM
1606675-007A	MP-SB02-GW	6/19/2016 8:15 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/30/2016 12:35 PM	6/30/2016 12:35 PM
1606675-007B	MP-SB02-GW	6/19/2016 8:15 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	7/13/2016 3:33 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	7/28/2016 8:25 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/23/2016 9:31 AM	6/29/2016 12:24 AM
1606675-007C	MP-SB02-GW	6/19/2016 8:15 AM	Groundwater				
				SW_8330A-Explosives		6/22/2016 2:11 PM	6/30/2016 3:12 AM

RTI Laboratories - DATES REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606675-008A	TB-GW-061716-03	6/17/2016 8:20 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/29/2016 11:12 AM	6/29/2016 11:12 AM
1606675-009A	TB-GW-061916-01	6/19/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/29/2016 11:38 AM	6/29/2016 11:38 AM
1606675-010A	TB-GW-061916-02	6/19/2016 8:10 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/29/2016 12:04 PM	6/29/2016 12:04 PM
1606675-011A	TB-GW-062016-01	6/20/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		6/30/2016 1:02 PM	6/30/2016 1:02 PM
1606675-012A	203-SB01-GW	6/20/2016 11:15 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/30/2016 1:58 PM	6/30/2016 1:58 PM
1606675-012B	203-SB01-GW	6/20/2016 11:15 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	8/1/2016 4:47 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/23/2016 9:31 AM	6/29/2016 12:49 AM
1606675-012C	203-SB01-GW	6/20/2016 11:15 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 9:29 PM
1606675-012D	203-SB01-GW	6/20/2016 11:15 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/3/2016 4:09 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 4:57 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 6:15 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 7:25 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/8/2016 11:52 AM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 3:16 PM
1606675-013A	H21-SB01-GW	6/19/2016 12:30 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		6/30/2016 2:24 PM	6/30/2016 2:24 PM
1606675-013B	H21-SB01-GW	6/19/2016 12:30 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	8/1/2016 5:15 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/23/2016 9:31 AM	6/29/2016 1:14 AM
1606675-013C	H21-SB01-GW	6/19/2016 12:30 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 9:54 PM
1606675-013D	H21-SB01-GW	6/19/2016 12:30 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/3/2016 4:21 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 5:04 PM

RTI Laboratories - DATES REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606675-013D	H21-SB01-GW	6/19/2016 12:30 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 7:31 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 7:40 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/5/2016 12:03 PM	7/12/2016 3:17 PM
1606675-014A	WDS-SB07-GW	6/19/2016 11:15 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/12/2016 7:02 PM	7/12/2016 7:02 PM
1606675-014B	WDS-SB07-GW	6/19/2016 11:15 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	8/1/2016 5:43 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/23/2016 9:31 AM	6/29/2016 1:39 AM
1606675-014C	WDS-SB07-GW	6/19/2016 11:15 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 11:07 PM
1606675-014D	WDS-SB07-GW	6/19/2016 11:15 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/3/2016 4:11 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 4:59 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 6:17 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 7:27 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:12 PM
1606675-015A	034-SB01-GW	6/19/2016 9:47 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/23/2016 9:30 AM	8/1/2016 6:11 PM
1606675-015B	034-SB01-GW	6/19/2016 9:47 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 11:32 PM
1606675-015C	034-SB01-GW	6/19/2016 9:47 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/3/2016 4:14 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 5:01 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 6:19 PM
				SW_6020A-Metals, ICP/MS		7/13/2016 2:37 PM	8/4/2016 7:29 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:12 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40220

Sample ID:	MB- 40220	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	86948
Client ID:	PBW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686944

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									UY
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	MB- 40220	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	86948
Client ID:	PBW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686944

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	5.0	5.0									UZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									UY
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	44		25.00		176	43	140				Q
Surr: 2-Fluorobiphenyl	31		25.00		122	44	119				Q
Surr: 2-Fluorophenol	18		25.00		73.3	19	119				
Surr: Nitrobenzene-d5	32		25.00		129	44	120				Q
Surr: Phenol-d5	13		25.00		51.4	33	122				
Surr: Terphenyl-d14	45		25.00		180	50	134				Q

Sample ID:	LCS-40220	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86948
Client ID:	LCSW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686945

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.9	5.0	20.00	0	49.4	29	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCS-40220**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSW**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686945**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	9.2	5.0	20.00	0	45.8	32	111				
1,3-Dichlorobenzene	8.5	5.0	20.00	0	42.6	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.6	29	112				
2,4,5-Trichlorophenol	15	5.0	20.00	0	77.0	53	123				
2,4,6-Trichlorophenol	16	4.0	20.00	0	79.9	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	75.6	47	121				
2,4-Dimethyl phenol	13	5.0	20.00	0	63.5	31	124				
2,4-Dinitrophenol	48	25	50.00	0	95.1	23	143				Y
2,4-Dinitrotoluene	16	5.0	20.00	0	79.6	57	128				
2,6-Dinitrotoluene	15	5.0	20.00	0	73.2	57	124				
2-Chloronaphthalene	11	5.0	20.00	0	56.3	40	116				
2-Chlorophenol	12	5.0	20.00	0	61.4	38	117				
2-Methylphenol (o-Cresol)	12	5.0	20.00	0	62.0	30	117				
2-Nitroaniline	14	5.0	20.00	0	68.3	55	127				
2-Nitrophenol	15	5.0	20.00	0	74.6	47	123				
3,3´-Dichlorobenzidine	13	20	20.00	0	64.2	27	129				J
3-Nitroaniline	15	10	20.00	0	76.9	41	128				
3/4-Methylphenol [m/p-Cresol]	22	10	40.00	0	54.7	25	120				
4,6-Dinitro-2-methylphenol	17	10	20.00	0	86.0	44	137				
4-Bromophenyl phenyl ether	13	5.0	20.00	0	62.8	55	124				
4-Chloro-3-methylphenol	16	5.0	20.00	0	81.6	52	119				
4-Chloroaniline [p-Chloroaniline]	14	10	20.00	0	67.6	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	73.1	53	121				
4-Nitroaniline	12	10	20.00	0	62.0	50	130				
4-Nitrophenol	15	25	50.00	0	30.0	50	130				JQ
Benzoic acid	21	25	40.00	0	51.9	50	130				JYZ
Benzyl alcohol	9.7	25	20.00	0	48.6	31	112				J
Bis(2-chloroethoxy) methane	13	5.0	20.00	0	63.0	48	120				
Bis(2-chloroethyl) ether	12	5.0	20.00	0	59.5	43	118				
Bis(2-chloroisopropyl)ether	13	5.0	20.00	0	64.0	37	130				Z

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	LCS-40220	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86948
Client ID:	LCSW	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686945

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	15	5.0	20.00	0	76.0	55	135				
Butyl benzyl phthalate	15	5.0	20.00	0	73.6	53	134				
Carbazole	14	5.0	20.00	0	71.7	60	122				
Di-n-butyl phthalate	14	5.0	20.00	0	71.3	59	127				
Di-n-octyl phthalate	15	5.0	20.00	0	72.8	51	140				
Dibenzofuran	14	4.0	20.00	0	68.7	53	118				
Diethyl phthalate	16	5.0	20.00	0	78.3	56	125				
Dimethyl phthalate	14	5.0	20.00	0	72.2	45	127				
Hexachlorobenzene	13	5.0	20.00	0	63.0	53	125				
Hexachlorobutadiene	9.9	5.0	20.00	0	49.7	22	124				
Hexachloroethane	8.7	5.0	20.00	0	43.4	21	115				
Isophorone	13	5.0	20.00	0	65.6	42	124				
N-Nitroso-di-n-propylamine	14	5.0	20.00	0	69.7	50	130				
N-Nitrosodimethylamine	7.0	5.0	20.00	0	34.9	50	130				Q
N-Nitrosodiphenylamine	12	5.0	20.00	0	58.8	51	123				Y
Nitrobenzene	13	3.0	20.00	0	64.7	45	121				
Pentachlorophenol	11	5.0	20.00	0	54.8	35	138				Y
Phenol	6.3	5.0	20.00	0	31.6	34	121				Q
Surr: 2,4,6-Tribromophenol	22		25.00		87.1	43	140				
Surr: 2-Fluorobiphenyl	20		25.00		79.6	44	119				
Surr: 2-Fluorophenol	12		25.00		46.6	19	119				
Surr: Nitrobenzene-d5	20		25.00		81.6	44	120				
Surr: Phenol-d5	8.3		25.00		33.4	33	122				
Surr: Terphenyl-d14	23		25.00		90.6	50	134				

Sample ID:	LCSD-40220	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/21/2016	RunNo:	86948
Client ID:	LCSS02	Batch ID:	40220	TestNo:	SW8270C	SW3510C		Analysis Date:	6/26/2016	SeqNo:	1686946

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	5.0	20.00	0	56.7	29	116	9.870	13.9	25	
1,2-Dichlorobenzene	11	5.0	20.00	0	53.5	32	111	9.160	15.5	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCSD-40220**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSS02**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686946**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	9.4	5.0	20.00	0	46.8	28	110	8.530	9.28	25	
1,4-Dichlorobenzene	10	5.0	20.00	0	49.9	29	112	8.910	11.3	25	
2,4,5-Trichlorophenol	18	5.0	20.00	0	87.7	53	123	15.39	13.1	25	
2,4,6-Trichlorophenol	18	4.0	20.00	0	90.2	50	125	15.98	12.1	25	
2,4-Dichlorophenol	17	5.0	20.00	0	86.4	47	121	15.13	13.3	25	
2,4-Dimethyl phenol	14	5.0	20.00	0	72.0	31	124	12.70	12.6	25	
2,4-Dinitrophenol	51	25	50.00	0	102	23	143	47.55	6.90	25	JY
2,4-Dinitrotoluene	18	5.0	20.00	0	90.7	57	128	15.93	12.9	25	
2,6-Dinitrotoluene	16	5.0	20.00	0	80.7	57	124	14.64	9.75	25	
2-Chloronaphthalene	12	5.0	20.00	0	61.4	40	116	11.26	8.58	25	
2-Chlorophenol	13	5.0	20.00	0	67.2	38	117	12.27	9.10	25	
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	68.6	30	117	12.41	10.0	25	
2-Nitroaniline	15	5.0	20.00	0	74.4	55	127	13.66	8.48	25	
2-Nitrophenol	17	5.0	20.00	0	83.8	47	123	14.92	11.6	25	
3,3´-Dichlorobenzidine	14	20	20.00	0	69.6	27	129	12.84	8.00	25	J
3-Nitroaniline	17	10	20.00	0	85.9	41	128	15.38	11.1	25	
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	59.4	25	120	21.89	8.28	25	
4,6-Dinitro-2-methylphenol	19	10	20.00	0	94.2	44	137	17.19	9.11	25	
4-Bromophenyl phenyl ether	14	5.0	20.00	0	68.1	55	124	12.55	8.18	25	
4-Chloro-3-methylphenol	18	5.0	20.00	0	91.3	52	119	16.31	11.3	25	
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	74.4	33	117	13.51	9.72	25	
4-Chlorophenyl phenyl ether	16	5.0	20.00	0	81.6	53	121	14.62	11.0	25	
4-Nitroaniline	14	10	20.00	0	70.1	50	130	12.39	12.3	25	
4-Nitrophenol	18	25	50.00	0	35.3	50	130	14.98	16.4	25	JQ
Benzoic acid	19	25	40.00	0	47.9	50	130	20.75	8.02	25	JQYZ
Benzyl alcohol	11	25	20.00	0	54.9	31	112	9.720	12.2	25	J
Bis(2-chloroethoxy) methane	14	5.0	20.00	0	68.7	48	120	12.61	8.58	25	
Bis(2-chloroethyl) ether	13	5.0	20.00	0	65.3	43	118	11.90	9.22	25	
Bis(2-chloroisopropyl)ether	14	5.0	20.00	0	71.5	37	130	12.79	11.1	25	Z
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	84.9	55	135	15.20	11.1	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40220**

Sample ID:	**LCSD-40220**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/21/2016**	RunNo:	**86948**
Client ID:	**LCSS02**	Batch ID:	**40220**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/26/2016**	SeqNo:	**1686946**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	17	5.0	20.00	0	82.6	53	134	14.72	11.6	25	
Carbazole	16	5.0	20.00	0	80.6	60	122	14.34	11.7	25	
Di-n-butyl phthalate	16	5.0	20.00	0	80.1	59	127	14.26	11.6	25	
Di-n-octyl phthalate	16	5.0	20.00	0	81.2	51	140	14.55	11.0	25	
Dibenzofuran	15	4.0	20.00	0	75.2	53	118	13.74	8.97	25	
Diethyl phthalate	17	5.0	20.00	0	86.5	56	125	15.66	9.95	25	
Dimethyl phthalate	16	5.0	20.00	0	79.8	45	127	14.44	9.94	25	
Hexachlorobenzene	14	5.0	20.00	0	68.1	53	125	12.60	7.78	25	
Hexachlorobutadiene	11	5.0	20.00	0	53.4	22	124	9.940	7.08	25	
Hexachloroethane	9.0	5.0	20.00	0	45.0	21	115	8.690	3.39	25	
Isophorone	14	5.0	20.00	0	70.6	42	124	13.11	7.49	25	
N-Nitroso-di-n-propylamine	15	5.0	20.00	0	75.6	50	130	13.94	8.06	25	
N-Nitrosodimethylamine	7.2	5.0	20.00	0	36.2	50	130	6.970	3.94	25	Q
N-Nitrosodiphenylamine	13	5.0	20.00	0	65.4	51	123	11.76	10.6	25	Y
Nitrobenzene	15	3.0	20.00	0	74.0	45	121	12.94	13.4	25	
Pentachlorophenol	13	5.0	20.00	0	63.2	35	138	10.95	14.3	25	Y
Phenol	6.9	5.0	20.00	0	34.4	34	121	6.320	8.48	25	
Surr: 2,4,6-Tribromophenol	23		25.00		93.4	43	140		0	25	
Surr: 2-Fluorobiphenyl	21		25.00		83.1	44	119		0	25	
Surr: 2-Fluorophenol	12		25.00		46.2	19	119		0	25	
Surr: Nitrobenzene-d5	22		25.00		87.4	44	120		0	25	
Surr: Phenol-d5	8.4		25.00		33.6	33	122		0	25	
Surr: Terphenyl-d14	24		25.00		95.4	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40233**

Sample ID:	MB-40233	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87749
Client ID:	PBW	Batch ID:	40233	TestNo:	SW8270C	SW3510C		Analysis Date:	7/5/2016	SeqNo:	1704912

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									UY
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									U
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.040		0.5000		7.91	53	106				Q
Surr: Nitrobenzene-d5	0.37		0.5000		74.9	55	111				
Surr: Terphenyl-d14	0.59		0.5000		118	58	132				

Sample ID:	LCS-40233	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87749
Client ID:	LCSW	Batch ID:	40233	TestNo:	SW8270C	SW3510C		Analysis Date:	7/5/2016	SeqNo:	1704913

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.37	0.020	0.4000	0	93.4	41	115				
2-Methylnaphthalene	0.34	0.020	0.4000	0	86.2	39	114				
Acenaphthene	0.36	0.020	0.4000	0	89.0	48	114				
Acenaphthylene	0.33	0.020	0.4000	0	82.7	35	121				
Anthracene	0.35	0.020	0.4000	0	86.5	53	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40233**

Sample ID:	**LCS-40233**	Samp Type:	**LCS**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87749**
Client ID:	**LCSW**	Batch ID:	**40233**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**7/5/2016**	SeqNo:	**1704913**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.49	0.020	0.4000	0	123	59	120				Q
Benzo(a)pyrene	0.36	0.020	0.4000	0	89.1	53	120				
Benzo(b)fluoranthene	0.44	0.020	0.4000	0	110	53	126				Y
Benzo(g,h,i)perylene	0.40	0.020	0.4000	0	101	44	128				
Benzo(k)fluoranthene	0.38	0.020	0.4000	0	95.5	54	125				
Chrysene	0.33	0.020	0.4000	0	82.4	57	120				
Dibenzo(a,h)anthracene	0.42	0.020	0.4000	0	105	44	131				
Fluoranthene	0.34	0.020	0.4000	0	85.9	58	120				
Fluorene	0.38	0.020	0.4000	0	93.8	50	118				
Indeno(1,2,3-cd)pyrene	0.42	0.020	0.4000	0	105	48	130				
Naphthalene	0.31	0.020	0.4000	0	77.6	43	114				
Phenanthrene	0.45	0.020	0.4000	0	113	53	115				
Pyrene	0.41	0.020	0.4000	0	104	53	124				
Surr: 2-Fluorobiphenyl	0		0.5000		0	53	106				QU
Surr: Nitrobenzene-d5	0.50		0.5000		100	55	111				
Surr: Terphenyl-d14	0.69		0.5000		138	58	132				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40235

Sample ID:	MB-40235	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87061
Client ID:	PBW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688887

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,6-Trichlorophenol	5.0	5.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	20	20									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									UY
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitrophenol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Diethyl phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40235

Sample ID:	MB-40235	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87061
Client ID:	PBW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688887

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	5.0	5.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	14		25.00		54.6	40	125				
Surr: 2-Fluorobiphenyl	13		25.00		51.0	50	110				
Surr: 2-Fluorophenol	7.4		25.00		29.8	20	110				
Surr: Nitrobenzene-d5	13		25.00		50.1	40	110				
Surr: Phenol-d5	5.0		25.00		20.1	20	130				
Surr: Terphenyl-d14	23		25.00		92.0	50	135				

Sample ID:	LCS-40235	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87061
Client ID:	LCSW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688888

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.3	5.0	20.00	0	36.6	29	116				
1,2-Dichlorobenzene	6.9	5.0	20.00	0	34.6	32	111				
1,3-Dichlorobenzene	6.1	5.0	20.00	0	30.4	28	110				
1,4-Dichlorobenzene	6.2	5.0	20.00	0	30.9	29	112				
2,4,6-Trichlorophenol	14	4.0	20.00	0	70.2	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	69.8	47	121				
2,4-Dimethyl phenol	11	5.0	20.00	0	54.4	31	124				
2,4-Dinitrophenol	31	20	50.00	0	62.9	23	143				
2,4-Dinitrotoluene	17	5.0	20.00	0	86.8	57	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	**LCS-40235**	Samp Type:	**LCS**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87061**
Client ID:	**LCSW**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1688888**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	15	5.0	20.00	0	74.0	57	124				
2-Chloronaphthalene	8.8	5.0	20.00	0	43.8	40	116				
2-Chlorophenol	10	5.0	20.00	0	51.8	37	117				
2-Methylphenol (o-Cresol)	9.3	5.0	20.00	0	46.7	30	117				
2-Nitrophenol	13	5.0	20.00	0	66.4	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.0	27	129				J
3/4-Methylphenol [m/p-Cresol]	16	10	40.00	0	41.0	25	120				
4,6-Dinitro-2-methylphenol	16	10	20.00	0	81.2	44	137				Y
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	16	5.0	20.00	0	79.2	52	119				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	63.0	53	121				
4-Nitrophenol	6.7	25	50.00	0	13.4	30	150				JQ
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	55.4	48	120				
Bis(2-chloroethyl) ether	9.8	1.0	20.00	0	49.0	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	85.8	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	82.7	53	134				
Carbazole	15	5.0	20.00	0	75.8	60	122				
Di-n-butyl phthalate	15	5.0	20.00	0	75.2	59	127				
Di-n-octyl phthalate	16	5.0	20.00	0	82.0	51	140				
Diethyl phthalate	16	5.0	20.00	0	79.6	56	125				
Dimethyl phthalate	15	5.0	20.00	0	73.2	45	127				
Hexachlorobenzene	14	1.0	20.00	0	68.2	53	125				
Hexachlorobutadiene	6.2	5.0	20.00	0	30.8	22	124				
Hexachloroethane	4.8	5.0	20.00	0	24.0	21	115				J
Isophorone	11	5.0	20.00	0	56.8	42	124				
N-Nitroso-di-n-propylamine	11	5.0	20.00	0	55.2	49	119				
N-Nitrosodimethylamine	4.8	5.0	20.00	0	23.8	30	150				JQY
N-Nitrosodiphenylamine	13	5.0	20.00	0	67.4	51	123				
Nitrobenzene	12	3.0	20.00	0	58.3	45	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40235

Sample ID:	LCS-40235	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87061
Client ID:	LCSW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688888

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	2.9	5.0	20.00	0	14.5	38	138				JQY
Phenol	3.8	5.0	20.00	0	18.8	30	150				JQ
Surr: 2,4,6-Tribromophenol	20		25.00		79.6	43	140				
Surr: 2-Fluorobiphenyl	17		25.00		66.2	44	119				
Surr: 2-Fluorophenol	8.2		25.00		32.6	19	119				
Surr: Nitrobenzene-d5	17		25.00		66.6	44	120				
Surr: Phenol-d5	5.5		25.00		21.9	50	130				Q
Surr: Terphenyl-d14	22		25.00		89.4	50	134				

Sample ID:	LCSD-40235	Samp Type:	LCSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87061
Client ID:	LCSS02	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688889

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.6	5.0	20.00	0	38.2	29	116	7.320	4.41	20	
1,2-Dichlorobenzene	6.8	5.0	20.00	0	34.2	32	111	6.910	0.872	20	
1,3-Dichlorobenzene	6.2	5.0	20.00	0	31.0	28	110	6.080	1.95	20	
1,4-Dichlorobenzene	6.2	5.0	20.00	0	31.0	29	112	6.180	0.484	20	
2,4,6-Trichlorophenol	15	4.0	20.00	0	72.9	50	125	14.05	3.70	20	
2,4-Dichlorophenol	14	5.0	20.00	0	69.8	47	121	13.96	0	20	
2,4-Dimethyl phenol	9.1	5.0	20.00	0	45.6	31	124	10.89	17.6	20	
2,4-Dinitrophenol	30	20	50.00	0	59.2	23	143	31.44	6.03	20	
2,4-Dinitrotoluene	17	5.0	20.00	0	85.0	57	128	17.35	2.10	20	
2,6-Dinitrotoluene	15	5.0	20.00	0	74.2	57	124	14.79	0.337	20	
2-Chloronaphthalene	8.9	5.0	20.00	0	44.4	40	116	8.770	1.25	20	
2-Chlorophenol	10	5.0	20.00	0	51.9	37	117	10.36	0.193	20	
2-Methylphenol (o-Cresol)	9.2	5.0	20.00	0	46.1	30	117	9.330	1.19	20	
2-Nitrophenol	14	5.0	20.00	0	70.6	47	123	13.29	5.99	20	
3,3´-Dichlorobenzidine	17	20	20.00	0	85.4	27	129	17.00	0.469	20	J
3/4-Methylphenol [m/p-Cresol]	16	10	40.00	0	40.7	25	120	16.41	0.918	20	
4,6-Dinitro-2-methylphenol	15	10	20.00	0	77.4	44	137	16.23	4.79	20	Y
4-Bromophenyl phenyl ether	13	5.0	20.00	0	64.6	55	124	12.43	3.87	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40235

Sample ID:	LCSD-40235	Samp Type:	LCSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87061
Client ID:	LCSS02	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688889

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	15	5.0	20.00	0	76.2	52	119	15.83	3.80	20	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	63.6	53	121	12.60	0.869	20	
4-Nitrophenol	11	25	50.00	0	22.3	30	150	6.720	49.7	20	JRQ
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	55.2	48	120	11.08	0.271	20	
Bis(2-chloroethyl) ether	9.7	1.0	20.00	0	48.6	43	118	9.800	0.820	20	
Bis(2-chloroisopropyl)ether	9.7	5.0	20.00	0	48.3	37	130	9.910	2.55	20	YZ
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	84.2	55	135	17.15	1.82	20	
Butyl benzyl phthalate	16	5.0	20.00	0	82.4	53	134	16.54	0.424	20	
Carbazole	15	5.0	20.00	0	75.2	60	122	15.16	0.795	20	
Di-n-butyl phthalate	15	5.0	20.00	0	74.4	59	127	15.05	1.14	20	
Di-n-octyl phthalate	16	5.0	20.00	0	79.2	51	140	16.41	3.53	20	
Diethyl phthalate	16	5.0	20.00	0	78.2	56	125	15.93	1.90	20	
Dimethyl phthalate	15	5.0	20.00	0	73.4	45	127	14.63	0.341	20	
Hexachlorobenzene	14	1.0	20.00	0	69.6	53	125	13.64	1.96	20	
Hexachlorobutadiene	6.5	5.0	20.00	0	32.6	22	124	6.170	5.52	20	
Hexachloroethane	4.8	5.0	20.00	0	24.2	21	115	4.800	0.623	20	J
Isophorone	12	5.0	20.00	0	57.8	42	124	11.35	1.75	20	
N-Nitroso-di-n-propylamine	11	5.0	20.00	0	55.6	49	119	11.04	0.632	20	
N-Nitrosodimethylamine	5.2	5.0	20.00	0	25.8	30	150	4.750	8.27	20	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.5	51	123	13.47	1.69	20	
Nitrobenzene	12	3.0	20.00	0	58.6	45	121	11.66	0.513	20	
Pentachlorophenol	3.0	5.0	20.00	0	15.0	38	138	2.900	3.72	20	JQY
Phenol	4.0	5.0	20.00	0	20.2	30	150	3.750	7.69	20	JQ
Surr: 2,4,6-Tribromophenol	18		25.00		72.3	43	140		0	20	
Surr: 2-Fluorobiphenyl	17		25.00		66.1	44	119		0	20	
Surr: 2-Fluorophenol	8.4		25.00		33.4	19	119		0	20	
Surr: Nitrobenzene-d5	17		25.00		66.1	44	120		0	20	
Surr: Phenol-d5	5.6		25.00		22.4	50	130		0	20	Q
Surr: Terphenyl-d14	22		25.00		89.9	50	134		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40235

Sample ID:	MB-40235	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87759
Client ID:	PBW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1705211

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									UY
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	**MB-40235**	Samp Type:	**MBLK**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87759**
Client ID:	**PBW**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1705211**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	5.0	5.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	14		25.00		54.6	43	140				
Surr: 2-Fluorobiphenyl	13		25.00		51.0	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				
Surr: Nitrobenzene-d5	13		25.00		50.1	44	120				
Surr: Phenol-d5	5.0		25.00		20.1	30	130				JQ
Surr: Terphenyl-d14	23		25.00		92.0	50	134				

Sample ID:	**LCS-40235**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87759**
Client ID:	**LCSW**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1705212**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.3	5.0	20.00	0	36.6	29	116				
1,4-Dichlorobenzene	6.2	5.0	20.00	0	30.9	29	112				
2,4,5-Trichlorophenol	13	5.0	20.00	0	63.5	53	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	**LCS-40235**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87759**
Client ID:	**LCSW**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1705212**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	14	4.0	20.00	0	70.2	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	69.8	47	121				
2,4-Dimethyl phenol	11	5.0	20.00	0	54.4	31	124				
2,4-Dinitrophenol	31	25	50.00	0	62.9	23	143				
2,4-Dinitrotoluene	17	5.0	20.00	0	86.8	57	128				
2,6-Dinitrotoluene	15	5.0	20.00	0	74.0	57	124				
2-Chloronaphthalene	8.8	5.0	20.00	0	43.8	40	116				
2-Chlorophenol	10	5.0	20.00	0	51.8	38	117				
2-Methylphenol (o-Cresol)	9.3	5.0	20.00	0	46.7	30	117				
2-Nitroaniline	14	5.0	20.00	0	69.4	55	127				
2-Nitrophenol	13	5.0	20.00	0	66.4	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.0	27	129				J
3-Nitroaniline	14	10	20.00	0	72.2	41	128				
3/4-Methylphenol [m/p-Cresol]	16	10	40.00	0	41.0	25	120				
4,6-Dinitro-2-methylphenol	16	10	20.00	0	81.2	44	137				Y
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	16	5.0	20.00	0	79.2	52	119				
4-Chloroaniline [p-Chloroaniline]	12	10	20.00	0	61.5	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	63.0	53	121				
4-Nitroaniline	14	10	20.00	0	68.0	50	130				
4-Nitrophenol	6.7	25	50.00	0	13.4	50	130				JQ
Benzyl alcohol	8.5	25	20.00	0	42.5	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	55.4	48	120				
Bis(2-chloroethyl) ether	9.8	5.0	20.00	0	49.0	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	85.8	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	82.7	53	134				
Carbazole	15	5.0	20.00	0	75.8	60	122				
Di-n-butyl phthalate	15	5.0	20.00	0	75.2	59	127				
Di-n-octyl phthalate	16	5.0	20.00	0	82.0	51	140				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40235

Sample ID:	LCS-40235	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87759
Client ID:	LCSW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1705212

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dibenzofuran	12	4.0	20.00	0	59.0	53	118				
Diethyl phthalate	16	5.0	20.00	0	79.6	56	125				
Dimethyl phthalate	15	5.0	20.00	0	73.2	45	127				
Hexachlorobenzene	14	5.0	20.00	0	68.2	53	125				
Hexachlorobutadiene	6.2	5.0	20.00	0	30.8	22	124				
Hexachloroethane	4.8	5.0	20.00	0	24.0	21	115				J
Isophorone	11	5.0	20.00	0	56.8	42	124				
N-Nitroso-di-n-propylamine	11	5.0	20.00	0	55.2	50	130				
N-Nitrosodimethylamine	4.8	5.0	20.00	0	23.8	50	130				JQY
N-Nitrosodiphenylamine	13	5.0	20.00	0	67.4	51	123				
Nitrobenzene	12	5.0	20.00	0	58.3	45	121				
Pentachlorophenol	2.9	5.0	20.00	0	14.5	35	138				JQY
Phenol	3.8	5.0	20.00	0	18.8	50	130				JQ
Surr: 2,4,6-Tribromophenol	20		25.00		79.6	43	140				
Surr: 2-Fluorobiphenyl	17		25.00		66.2	44	119				
Surr: 2-Fluorophenol	8.2		25.00		32.6	19	119				
Surr: Nitrobenzene-d5	17		25.00		66.6	44	120				
Surr: Phenol-d5	5.5		25.00		21.9	30	130				JQ
Surr: Terphenyl-d14	22		25.00		89.4	50	134				

Sample ID:	LCSD-40235	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87759
Client ID:	LCSS02	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1705213

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.6	5.0	20.00	0	38.2	29	116	7.320	4.41	25	
1,4-Dichlorobenzene	6.2	5.0	20.00	0	31.0	29	112	6.180	0.484	25	
2,4,5-Trichlorophenol	13	5.0	20.00	0	66.2	53	123	12.70	4.24	25	
2,4,6-Trichlorophenol	15	4.0	20.00	0	72.9	50	125	14.05	3.70	25	
2,4-Dichlorophenol	14	5.0	20.00	0	69.8	47	121	13.96	0	25	
2,4-Dimethyl phenol	9.1	5.0	20.00	0	45.6	31	124	10.89	17.6	25	
2,4-Dinitrophenol	30	25	50.00	0	59.2	23	143	31.44	6.03	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	**LCSD-40235**	Samp Type:	**LCSD**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87759**
Client ID:	**LCSS02**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1705213**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	17	5.0	20.00	0	85.0	57	128	17.35	2.10	25	
2,6-Dinitrotoluene	15	5.0	20.00	0	74.2	57	124	14.79	0.337	25	
2-Chloronaphthalene	8.9	5.0	20.00	0	44.4	40	116	8.770	1.25	25	
2-Chlorophenol	10	5.0	20.00	0	51.9	38	117	10.36	0.193	25	
2-Methylphenol (o-Cresol)	9.2	5.0	20.00	0	46.1	30	117	9.330	1.19	25	
2-Nitroaniline	14	5.0	20.00	0	70.0	55	127	13.89	0.860	25	
2-Nitrophenol	14	5.0	20.00	0	70.6	47	123	13.29	5.99	25	
3,3´-Dichlorobenzidine	17	20	20.00	0	85.4	27	129	17.00	0.469	25	J
3-Nitroaniline	14	10	20.00	0	70.4	41	128	14.43	2.53	25	
3/4-Methylphenol [m/p-Cresol]	16	10	40.00	0	40.7	25	120	16.41	0.918	25	
4,6-Dinitro-2-methylphenol	15	10	20.00	0	77.4	44	137	16.23	4.79	25	Y
4-Bromophenyl phenyl ether	13	5.0	20.00	0	64.6	55	124	12.43	3.87	25	
4-Chloro-3-methylphenol	15	5.0	20.00	0	76.2	52	119	15.83	3.80	25	
4-Chloroaniline [p-Chloroaniline]	12	10	20.00	0	60.9	33	117	12.30	0.980	25	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	63.6	53	121	12.60	0.869	25	
4-Nitroaniline	13	10	20.00	0	64.5	50	130	13.61	5.36	25	
4-Nitrophenol	11	25	50.00	0	22.3	50	130	6.720	49.7	25	JRQ
Benzyl alcohol	9.0	25	20.00	0	45.2	31	112	8.500	6.05	25	J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	55.2	48	120	11.08	0.271	25	
Bis(2-chloroethyl) ether	9.7	5.0	20.00	0	48.6	43	118	9.800	0.820	25	
Bis(2-chloroisopropyl)ether	9.7	5.0	20.00	0	48.3	37	130	9.910	2.55	25	YZ
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	84.2	55	135	17.15	1.82	25	
Butyl benzyl phthalate	16	5.0	20.00	0	82.4	53	134	16.54	0.424	25	
Carbazole	15	5.0	20.00	0	75.2	60	122	15.16	0.795	25	
Di-n-butyl phthalate	15	5.0	20.00	0	74.4	59	127	15.05	1.14	25	
Di-n-octyl phthalate	16	5.0	20.00	0	79.2	51	140	16.41	3.53	25	
Dibenzofuran	12	4.0	20.00	0	58.2	53	118	11.81	1.36	25	
Diethyl phthalate	16	5.0	20.00	0	78.2	56	125	15.93	1.90	25	
Dimethyl phthalate	15	5.0	20.00	0	73.4	45	127	14.63	0.341	25	
Hexachlorobenzene	14	5.0	20.00	0	69.6	53	125	13.64	1.96	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40235

Sample ID:	LCSD-40235	Samp Type:	LCSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87759
Client ID:	LCSS02	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1705213

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachlorobutadiene	6.5	5.0	20.00	0	32.6	22	124	6.170	5.52	25	
Hexachloroethane	4.8	5.0	20.00	0	24.2	21	115	4.800	0.623	25	J
Isophorone	12	5.0	20.00	0	57.8	42	124	11.35	1.75	25	
N-Nitroso-di-n-propylamine	11	5.0	20.00	0	55.6	50	130	11.04	0.632	25	
N-Nitrosodimethylamine	5.2	5.0	20.00	0	25.8	50	130	4.750	8.27	25	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.5	51	123	13.47	1.69	25	
Nitrobenzene	12	5.0	20.00	0	58.6	45	121	11.66	0.513	25	
Pentachlorophenol	3.0	5.0	20.00	0	15.0	35	138	2.900	3.72	25	JQY
Phenol	4.0	5.0	20.00	0	20.2	50	130	3.750	7.69	25	JQ
Surr: 2,4,6-Tribromophenol	18		25.00		72.3	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		25.00		66.1	44	119		0	25	
Surr: 2-Fluorophenol	8.4		25.00		33.4	19	119		0	25	
Surr: Nitrobenzene-d5	17		25.00		66.1	44	120		0	25	
Surr: Phenol-d5	5.6		25.00		22.4	30	130		0	25	JQ
Surr: Terphenyl-d14	22		25.00		89.9	50	134		0	25	

Sample ID:	MB-40235	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87057
Client ID:	PBW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688852

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40235

Sample ID:	MB-40235	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87057
Client ID:	PBW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688852

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									UY
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UYZ
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	MB-40235	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87057
Client ID:	PBW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688852

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									UY
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									UY
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	14		25.00		54.6	43	140				
Surr: 2-Fluorobiphenyl	13		25.00		51.0	44	119				
Surr: 2-Fluorophenol	7.4		25.00		29.8	19	119				
Surr: Nitrobenzene-d5	13		25.00		50.1	44	120				
Surr: Phenol-d5	5.0		25.00		20.1	33	122				Q
Surr: Terphenyl-d14	23		25.00		92.0	50	134				

Sample ID:	LCS-40235	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87057
Client ID:	LCSW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688853

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.3	5.0	20.00	0	36.6	29	116				
1,2-Dichlorobenzene	6.9	5.0	20.00	0	34.6	32	111				
1,3-Dichlorobenzene	6.1	5.0	20.00	0	30.4	28	110				
1,4-Dichlorobenzene	6.2	5.0	20.00	0	30.9	29	112				
2,4,5-Trichlorophenol	13	5.0	20.00	0	63.5	53	123				
2,4,6-Trichlorophenol	14	4.0	20.00	0	70.2	50	125				
2,4-Dichlorophenol	14	5.0	20.00	0	69.8	47	121				
2,4-Dimethyl phenol	11	5.0	20.00	0	54.4	31	124				
2,4-Dinitrophenol	31	25	50.00	0	62.9	23	143				
2,4-Dinitrotoluene	17	5.0	20.00	0	86.8	57	128				
2,6-Dinitrotoluene	15	5.0	20.00	0	74.0	57	124				
2-Chloronaphthalene	8.8	5.0	20.00	0	43.8	40	116				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	**LCS-40235**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87057**
Client ID:	**LCSW**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1688853**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chlorophenol	10	5.0	20.00	0	51.8	38	117				
2-Methylphenol (o-Cresol)	9.3	5.0	20.00	0	46.7	30	117				
2-Nitroaniline	14	5.0	20.00	0	69.4	55	127				
2-Nitrophenol	13	5.0	20.00	0	66.4	47	123				
3,3´-Dichlorobenzidine	17	20	20.00	0	85.0	27	129				J
3-Nitroaniline	14	10	20.00	0	72.2	41	128				
3/4-Methylphenol [m/p-Cresol]	16	10	40.00	0	41.0	25	120				
4,6-Dinitro-2-methylphenol	16	10	20.00	0	81.2	44	137				Y
4-Bromophenyl phenyl ether	12	5.0	20.00	0	62.2	55	124				
4-Chloro-3-methylphenol	16	5.0	20.00	0	79.2	52	119				
4-Chloroaniline [p-Chloroaniline]	12	10	20.00	0	61.5	33	117				
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	63.0	53	121				
4-Nitroaniline	14	10	20.00	0	68.0	50	130				
4-Nitrophenol	6.7	25	50.00	0	13.4	50	130				JQ
Benzoic acid	4.8	25	40.00	0	12.1	50	130				JQYZ
Benzyl alcohol	8.5	25	20.00	0	42.5	31	112				J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	55.4	48	120				
Bis(2-chloroethyl) ether	9.8	1.0	20.00	0	49.0	43	118				
Bis(2-chloroisopropyl)ether	9.9	5.0	20.00	0	49.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	85.8	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	82.7	53	134				
Carbazole	15	5.0	20.00	0	75.8	60	122				
Di-n-butyl phthalate	15	5.0	20.00	0	75.2	59	127				
Di-n-octyl phthalate	16	5.0	20.00	0	82.0	51	140				
Dibenzofuran	12	4.0	20.00	0	59.0	53	118				
Diethyl phthalate	16	5.0	20.00	0	79.6	56	125				
Dimethyl phthalate	15	5.0	20.00	0	73.2	45	127				
Hexachlorobenzene	14	1.0	20.00	0	68.2	53	125				
Hexachlorobutadiene	6.2	1.0	20.00	0	30.8	22	124				
Hexachloroethane	4.8	5.0	20.00	0	24.0	21	115				J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	LCS-40235	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87057
Client ID:	LCSW	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688853

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Isophorone	11	5.0	20.00	0	56.8	42	124				
N-Nitroso-di-n-propylamine	11	5.0	20.00	0	55.2	50	130				
N-Nitrosodimethylamine	4.8	5.0	20.00	0	23.8	50	130				JQY
N-Nitrosodiphenylamine	13	5.0	20.00	0	67.4	51	123				
Nitrobenzene	12	3.0	20.00	0	58.3	45	121				
Pentachlorophenol	2.9	5.0	20.00	0	14.5	35	138				JQY
Phenol	3.8	5.0	20.00	0	18.8	34	121				JQ
Surr: 2,4,6-Tribromophenol	20		25.00		79.6	43	140				
Surr: 2-Fluorobiphenyl	17		25.00		66.2	44	119				
Surr: 2-Fluorophenol	8.2		25.00		32.6	19	119				J
Surr: Nitrobenzene-d5	17		25.00		66.6	44	120				
Surr: Phenol-d5	5.5		25.00		21.9	33	122				JQ
Surr: Terphenyl-d14	22		25.00		89.4	50	134				

Sample ID:	LCSD-40235	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87057
Client ID:	LCSS02	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/28/2016	SeqNo:	1688854

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.6	5.0	20.00	0	38.2	29	116	7.320	4.41	20	
1,2-Dichlorobenzene	6.8	5.0	20.00	0	34.2	32	111	6.910	0.872	20	
1,3-Dichlorobenzene	6.2	5.0	20.00	0	31.0	28	110	6.080	1.95	20	
1,4-Dichlorobenzene	6.2	5.0	20.00	0	31.0	29	112	6.180	0.484	20	
2,4,5-Trichlorophenol	13	5.0	20.00	0	66.2	53	123	12.70	4.24	20	
2,4,6-Trichlorophenol	15	4.0	20.00	0	72.9	50	125	14.05	3.70	20	
2,4-Dichlorophenol	14	5.0	20.00	0	69.8	47	121	13.96	0	20	
2,4-Dimethyl phenol	9.1	5.0	20.00	0	45.6	31	124	10.89	17.6	20	
2,4-Dinitrophenol	30	25	50.00	0	59.2	23	143	31.44	6.03	20	
2,4-Dinitrotoluene	17	5.0	20.00	0	85.0	57	128	17.35	2.10	20	
2,6-Dinitrotoluene	15	5.0	20.00	0	74.2	57	124	14.79	0.337	20	
2-Chloronaphthalene	8.9	5.0	20.00	0	44.4	40	116	8.770	1.25	20	
2-Chlorophenol	10	5.0	20.00	0	51.9	38	117	10.36	0.193	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	**LCSD-40235**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87057**
Client ID:	**LCSS02**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1688854**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Methylphenol (o-Cresol)	9.2	5.0	20.00	0	46.1	30	117	9.330	1.19	20	
2-Nitroaniline	14	5.0	20.00	0	70.0	55	127	13.89	0.860	20	
2-Nitrophenol	14	5.0	20.00	0	70.6	47	123	13.29	5.99	20	
3,3´-Dichlorobenzidine	17	20	20.00	0	85.4	27	129	17.00	0.469	20	J
3-Nitroaniline	14	10	20.00	0	70.4	41	128	14.43	2.53	20	
3/4-Methylphenol [m/p-Cresol]	16	10	40.00	0	40.7	25	120	16.41	0.918	20	
4,6-Dinitro-2-methylphenol	15	10	20.00	0	77.4	44	137	16.23	4.79	20	Y
4-Bromophenyl phenyl ether	13	5.0	20.00	0	64.6	55	124	12.43	3.87	20	
4-Chloro-3-methylphenol	15	5.0	20.00	0	76.2	52	119	15.83	3.80	20	
4-Chloroaniline [p-Chloroaniline]	12	10	20.00	0	60.9	33	117	12.30	0.980	20	
4-Chlorophenyl phenyl ether	13	5.0	20.00	0	63.6	53	121	12.60	0.869	20	
4-Nitroaniline	13	10	20.00	0	64.5	50	130	13.61	5.36	20	
4-Nitrophenol	11	25	50.00	0	22.3	50	130	6.720	49.7	20	JRQ
Benzoic acid	4.9	25	40.00	0	12.2	50	130	4.840	0.412	20	JQYZ
Benzyl alcohol	9.0	25	20.00	0	45.2	31	112	8.500	6.05	20	J
Bis(2-chloroethoxy) methane	11	5.0	20.00	0	55.2	48	120	11.08	0.271	20	
Bis(2-chloroethyl) ether	9.7	1.0	20.00	0	48.6	43	118	9.800	0.820	20	
Bis(2-chloroisopropyl)ether	9.7	5.0	20.00	0	48.3	37	130	9.910	2.55	20	YZ
Bis(2-ethylhexyl) phthalate	17	5.0	20.00	0	84.2	55	135	17.15	1.82	20	
Butyl benzyl phthalate	16	5.0	20.00	0	82.4	53	134	16.54	0.424	20	
Carbazole	15	5.0	20.00	0	75.2	60	122	15.16	0.795	20	
Di-n-butyl phthalate	15	5.0	20.00	0	74.4	59	127	15.05	1.14	20	
Di-n-octyl phthalate	16	5.0	20.00	0	79.2	51	140	16.41	3.53	20	
Dibenzofuran	12	4.0	20.00	0	58.2	53	118	11.81	1.36	20	
Diethyl phthalate	16	5.0	20.00	0	78.2	56	125	15.93	1.90	20	
Dimethyl phthalate	15	5.0	20.00	0	73.4	45	127	14.63	0.341	20	
Hexachlorobenzene	14	1.0	20.00	0	69.6	53	125	13.64	1.96	20	
Hexachlorobutadiene	6.5	1.0	20.00	0	32.6	22	124	6.170	5.52	20	
Hexachloroethane	4.8	5.0	20.00	0	24.2	21	115	4.800	0.623	20	J
Isophorone	12	5.0	20.00	0	57.8	42	124	11.35	1.75	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	**LCSD-40235**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87057**
Client ID:	**LCSS02**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/28/2016**	SeqNo:	**1688854**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitroso-di-n-propylamine	11	5.0	20.00	0	55.6	50	130	11.04	0.632	20	
N-Nitrosodimethylamine	5.2	5.0	20.00	0	25.8	50	130	4.750	8.27	20	QY
N-Nitrosodiphenylamine	14	5.0	20.00	0	68.5	51	123	13.47	1.69	20	
Nitrobenzene	12	3.0	20.00	0	58.6	45	121	11.66	0.513	20	
Pentachlorophenol	3.0	5.0	20.00	0	15.0	35	138	2.900	3.72	20	JQY
Phenol	4.0	5.0	20.00	0	20.2	34	121	3.750	7.69	20	JQ
Surr: 2,4,6-Tribromophenol	18		25.00		72.3	43	140		0	20	
Surr: 2-Fluorobiphenyl	17		25.00		66.1	44	119		0	20	
Surr: 2-Fluorophenol	8.4		25.00		33.4	19	119		0	20	J
Surr: Nitrobenzene-d5	17		25.00		66.1	44	120		0	20	
Surr: Phenol-d5	5.6		25.00		22.4	33	122		0	20	JQ
Surr: Terphenyl-d14	22		25.00		89.9	50	134		0	20	

Sample ID:	**1606740-003AMS**	Samp Type:	**MS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87057**
Client ID:	**ZZZZZZ**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/29/2016**	SeqNo:	**1688862**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	25	4.7	37.38	0	66.3	29	116				
1,2-Dichlorobenzene	22	4.7	37.38	0	59.6	32	111				
1,3-Dichlorobenzene	21	4.7	37.38	0	55.1	28	110				
1,4-Dichlorobenzene	21	4.7	37.38	0	55.6	29	112				
2,4,5-Trichlorophenol	34	4.7	37.38	0	92.1	53	123				
2,4,6-Trichlorophenol	35	3.7	37.38	0	93.9	50	125				
2,4-Dichlorophenol	33	4.7	37.38	0	88.8	47	121				
2,4-Dimethyl phenol	26	4.7	37.38	0	69.9	31	124				
2,4-Dinitrophenol	85	23	93.46	0	90.6	23	143				J
2,4-Dinitrotoluene	38	4.7	37.38	0	102	57	128				
2,6-Dinitrotoluene	33	4.7	37.38	0	87.4	57	124				
2-Chloronaphthalene	23	4.7	37.38	0	62.8	40	116				
2-Chlorophenol	24	4.7	37.38	0	65.3	38	117				
2-Methylphenol (o-Cresol)	24	4.7	37.38	0	65.3	30	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	**1606740-003AMS**	Samp Type:	**MS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87057**
Client ID:	**ZZZZZZ**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/29/2016**	SeqNo:	**1688862**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitroaniline	31	4.7	37.38	0	82.6	55	127				
2-Nitrophenol	32	4.7	37.38	0	86.2	47	123				
3,3´-Dichlorobenzidine	21	19	37.38	0	56.7	27	129				
3-Nitroaniline	25	9.3	37.38	0	66.1	41	128				
3/4-Methylphenol [m/p-Cresol]	43	9.3	74.77	0	57.8	25	120				
4,6-Dinitro-2-methylphenol	39	9.3	37.38	0	104	44	137				Y
4-Bromophenyl phenyl ether	30	4.7	37.38	0	80.6	55	124				
4-Chloro-3-methylphenol	36	4.7	37.38	0	96.2	52	119				
4-Chloroaniline [p-Chloroaniline]	16	9.3	37.38	0	42.3	33	117				
4-Chlorophenyl phenyl ether	33	4.7	37.38	0	87.1	53	121				
4-Nitroaniline	24	9.3	37.38	0	64.5	50	130				
4-Nitrophenol	47	23	93.46	0	50.3	50	130				J
Benzoic acid	80	23	74.77	0	107	50	130				JYZ
Benzyl alcohol	23	23	37.38	0	60.4	31	112				J
Bis(2-chloroethoxy) methane	23	4.7	37.38	0	62.4	48	120				
Bis(2-chloroethyl) ether	22	0.93	37.38	0	60.1	43	118				
Bis(2-chloroisopropyl)ether	23	4.7	37.38	0	60.3	37	130				YZ
Bis(2-ethylhexyl) phthalate	35	4.7	37.38	0	94.1	55	135				
Butyl benzyl phthalate	35	4.7	37.38	0	94.8	53	134				
Carbazole	29	4.7	37.38	0	78.5	60	122				
Di-n-butyl phthalate	29	4.7	37.38	0	78.7	59	127				
Di-n-octyl phthalate	33	4.7	37.38	0	87.7	51	140				
Dibenzofuran	27	3.7	37.38	0	72.0	53	118				
Diethyl phthalate	34	4.7	37.38	0.3738	90.7	56	125				
Dimethyl phthalate	30	4.7	37.38	0	80.8	45	127				
Hexachlorobenzene	31	0.93	37.38	0	81.8	53	125				
Hexachlorobutadiene	25	0.93	37.38	0	68.1	22	124				
Hexachloroethane	19	4.7	37.38	0	49.6	21	115				
Isophorone	25	4.7	37.38	0	66.0	42	124				
N-Nitroso-di-n-propylamine	25	4.7	37.38	0	66.1	50	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID: **1606740-003AMS** Samp Type: **MS** Test Code: **SW_8270A-LL** Units: **µg/L** Prep Date: **6/23/2016** RunNo: **87057**
Client ID: **ZZZZZZ** Batch ID: **40235** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/29/2016** SeqNo: **1688862**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodimethylamine	12	4.7	37.38	0	33.2	50	130				QY
N-Nitrosodiphenylamine	28	4.7	37.38	0	73.7	51	123				
Nitrobenzene	28	2.8	37.38	0	73.7	45	121				
Pentachlorophenol	35	4.7	37.38	0	93.0	35	138				Y
Phenol	13	4.7	37.38	0	33.5	34	121				Q
Surr: 2,4,6-Tribromophenol	25		23.36		108	43	140				
Surr: 2-Fluorobiphenyl	18		23.36		76.2	44	119				
Surr: 2-Fluorophenol	10		23.36		44.4	19	119				
Surr: Nitrobenzene-d5	18		23.36		76.1	44	120				
Surr: Phenol-d5	8.3		23.36		35.3	33	122				J
Surr: Terphenyl-d14	22		23.36		93.0	50	134				

Sample ID: **1606740-007AMS** Samp Type: **MS** Test Code: **SW_8270A-LL** Units: **µg/L** Prep Date: **6/23/2016** RunNo: **87057**
Client ID: **ZZZZZZ** Batch ID: **40235** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/29/2016** SeqNo: **1688867**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	4.7	18.69	0	57.7	29	116				
1,2-Dichlorobenzene	9.2	4.7	18.69	0	49.2	32	111				
1,3-Dichlorobenzene	8.4	4.7	18.69	0	45.2	28	110				
1,4-Dichlorobenzene	8.7	4.7	18.69	0	46.5	29	112				
2,4,5-Trichlorophenol	17	4.7	18.69	0	91.1	53	123				
2,4,6-Trichlorophenol	18	3.7	18.69	0	94.8	50	125				
2,4-Dichlorophenol	17	4.7	18.69	0	90.4	47	121				
2,4-Dimethyl phenol	12	4.7	18.69	0	65.0	31	124				
2,4-Dinitrophenol	51	23	46.73	0	108	23	143				J
2,4-Dinitrotoluene	18	4.7	18.69	0	97.4	57	128				
2,6-Dinitrotoluene	16	4.7	18.69	0	86.9	57	124				
2-Chloronaphthalene	12	4.7	18.69	0	62.5	40	116				
2-Chlorophenol	12	4.7	18.69	0	62.6	38	117				
2-Methylphenol (o-Cresol)	12	4.7	18.69	0	61.9	30	117				
2-Nitroaniline	15	4.7	18.69	0	82.8	55	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	**1606740-007AMS**	Samp Type:	**MS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/23/2016**	RunNo:	**87057**
Client ID:	**ZZZZZZ**	Batch ID:	**40235**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/29/2016**	SeqNo:	**1688867**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitrophenol	16	4.7	18.69	0	84.2	47	123				
3,3´-Dichlorobenzidine	14	19	18.69	0	73.8	27	129				J
3-Nitroaniline	13	9.3	18.69	0	71.8	41	128				
3/4-Methylphenol [m/p-Cresol]	20	9.3	37.38	0	53.1	25	120				
4,6-Dinitro-2-methylphenol	21	9.3	18.69	0	112	44	137				Y
4-Bromophenyl phenyl ether	15	4.7	18.69	0	79.4	55	124				
4-Chloro-3-methylphenol	18	4.7	18.69	0	96.4	52	119				
4-Chloroaniline [p-Chloroaniline]	9.2	9.3	18.69	0	49.2	33	117				J
4-Chlorophenyl phenyl ether	16	4.7	18.69	0	86.8	53	121				
4-Nitroaniline	13	9.3	18.69	0	70.2	50	130				
4-Nitrophenol	21	23	46.73	0	45.1	50	130				JQ
Benzoic acid	42	23	37.38	6.421	94.9	50	130				YZ
Benzyl alcohol	10	23	18.69	0	54.4	31	112				J
Bis(2-chloroethoxy) methane	12	4.7	18.69	0	64.9	48	120				
Bis(2-chloroethyl) ether	11	0.93	18.69	0	58.4	43	118				
Bis(2-chloroisopropyl)ether	11	4.7	18.69	0	59.9	37	130				YZ
Bis(2-ethylhexyl) phthalate	17	4.7	18.69	0	91.7	55	135				
Butyl benzyl phthalate	17	4.7	18.69	0	90.0	53	134				
Carbazole	15	4.7	18.69	0	81.4	60	122				
Di-n-butyl phthalate	15	4.7	18.69	0	82.3	59	127				
Di-n-octyl phthalate	17	4.7	18.69	0	90.3	51	140				
Dibenzofuran	14	3.7	18.69	0	76.5	53	118				
Diethyl phthalate	16	4.7	18.69	0.2150	87.1	56	125				
Dimethyl phthalate	16	4.7	18.69	0	83.3	45	127				
Hexachlorobenzene	15	0.93	18.69	0	81.2	53	125				
Hexachlorobutadiene	10	0.93	18.69	0	55.0	22	124				
Hexachloroethane	7.4	4.7	18.69	0	39.6	21	115				
Isophorone	13	4.7	18.69	0	67.8	42	124				
N-Nitroso-di-n-propylamine	12	4.7	18.69	0	65.0	50	130				
N-Nitrosodimethylamine	5.3	4.7	18.69	0	28.6	50	130				QY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40235**

Sample ID:	1606740-007AMS	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/23/2016	RunNo:	87057
Client ID:	ZZZZZZ	Batch ID:	40235	TestNo:	SW8270C	SW3510C		Analysis Date:	6/29/2016	SeqNo:	1688867

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	14	4.7	18.69	0	74.8	51	123				
Nitrobenzene	13	2.8	18.69	0	69.9	45	121				
Pentachlorophenol	16	4.7	18.69	0	87.6	35	138				Y
Phenol	5.0	4.7	18.69	0	27.0	34	121				Q
Surr: 2,4,6-Tribromophenol	25		23.36		109	43	140				
Surr: 2-Fluorobiphenyl	18		23.36		79.0	44	119				
Surr: 2-Fluorophenol	9.8		23.36		42.0	19	119				
Surr: Nitrobenzene-d5	18		23.36		76.1	44	120				
Surr: Phenol-d5	7.0		23.36		29.9	33	122				JQ
Surr: Terphenyl-d14	22		23.36		92.2	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40253**

Sample ID:	**MB-40253**	Samp Type:	**MBLK**	Test Code:	**SW_8330A**	Units:	**µg/L**	Prep Date:	**6/22/2016**	RunNo:	**87250**
Client ID:	**PBW**	Batch ID:	**40253**	TestNo:	**SW8330**			Analysis Date:	**6/30/2016**	SeqNo:	**1693476**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene [1,3,5-TNB]	0.20	0.20									U
1,3-Dinitrobenzene [1,3-DNB]	0.20	0.20									U
2,4,6-Trinitrotoluene	0.20	0.20									U
2,4-Dinitrotoluene	0.20	0.20									U
2,6-Dinitrotoluene	0.20	0.20									U
2-Amino-4,6-dinitrotoluene	0.20	0.20									U
2-Nitrotoluene	0.20	0.20									U
3-Nitrotoluene	0.20	0.20									U
4-Amino-2,6-dinitrotoluene	0.20	0.20									U
4-Nitrotoluene	0.20	0.20									U
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.7	0.20									T
Nitrobenzene	0.20	0.20									U
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.20	0.20									U
Tetryl	0.30	0.30									U
Surr: 4-Nitroaniline	1.7		2.000		83.4	70	130				

Sample ID:	**LCS-40253**	Samp Type:	**LCS**	Test Code:	**SW_8330A**	Units:	**µg/L**	Prep Date:	**6/22/2016**	RunNo:	**87250**
Client ID:	**LCSW**	Batch ID:	**40253**	TestNo:	**SW8330**			Analysis Date:	**6/30/2016**	SeqNo:	**1693477**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene [1,3,5-TNB]	2.3	0.20	2.000	0	114	73	125				
1,3-Dinitrobenzene [1,3-DNB]	1.7	0.20	2.000	0	85.2	78	120				
2,4,6-Trinitrotoluene	1.7	0.20	2.000	0	86.5	71	123				
2,4-Dinitrotoluene	1.9	0.20	2.000	0	97.0	78	120				
2,6-Dinitrotoluene	1.8	0.20	2.000	0	92.4	77	127				
2-Amino-4,6-dinitrotoluene	2.0	0.20	2.000	0	101	79	120				
2-Nitrotoluene	2.1	0.20	2.000	0	104	70	127				
3-Nitrotoluene	1.9	0.20	2.000	0	93.2	73	125				
4-Amino-2,6-dinitrotoluene	2.4	0.20	2.000	0	122	76	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40253

Sample ID:	LCS-40253	Samp Type:	LCS	Test Code:	SW_8330A	Units:	µg/L	Prep Date:	6/22/2016	RunNo:	87250
Client ID:	LCSW	Batch ID:	40253	TestNo:	SW8330			Analysis Date:	6/30/2016	SeqNo:	1693477

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitrotoluene	2.1	0.20	2.000	0	103	71	127				
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.4	0.20	2.000	0	120	68	130				B
Nitrobenzene	2.0	0.20	2.000	0	101	65	134				
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	1.8	0.20	2.000	0	90.4	65	135				
Tetryl	2.1	0.30	2.000	0	104	64	128				
Surr: 4-Nitroaniline	1.7		2.000		83.2	70	130				

Sample ID:	1606833-014DMS	Samp Type:	MS	Test Code:	SW_8330A	Units:	µg/L	Prep Date:	6/22/2016	RunNo:	87250
Client ID:	ZZZZZZ	Batch ID:	40253	TestNo:	SW8330			Analysis Date:	6/30/2016	SeqNo:	1693480

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene [1,3,5-TNB]	1.9	0.22	2.174	0	88.9	73	125				
1,3-Dinitrobenzene [1,3-DNB]	1.8	0.22	2.174	0	84.2	78	120				
2,4,6-Trinitrotoluene	2.1	0.22	2.174	0	98.2	71	123				
2,4-Dinitrotoluene	2.1	0.22	2.174	0	97.9	78	120				
2,6-Dinitrotoluene	2.1	0.22	2.174	0	96.1	77	127				
2-Amino-4,6-dinitrotoluene	2.1	0.22	2.174	0	97.0	79	120				
2-Nitrotoluene	2.4	0.22	2.174	0	109	70	127				
3-Nitrotoluene	2.1	0.22	2.174	0	97.0	73	125				
4-Amino-2,6-dinitrotoluene	2.7	0.22	2.174	0	125	76	125				Q
4-Nitrotoluene	2.6	0.22	2.174	0	117	71	127				
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.7	0.22	2.174	0	79.2	68	130				B
Nitrobenzene	2.0	0.22	2.174	0	91.2	65	134				
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	1.7	0.22	2.174	0	79.4	65	135				
Tetryl	2.3	0.33	2.174	0	106	64	128				
Surr: 4-Nitroaniline	1.8		2.174		84.5	70	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40253

Sample ID:	1606833-014DMSD	Samp Type:	MSD	Test Code:	SW_8330A	Units:	µg/L	Prep Date:	6/22/2016	RunNo:	87250
Client ID:	ZZZZZZ	Batch ID:	40253	TestNo:	SW8330			Analysis Date:	6/30/2016	SeqNo:	1693481

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene [1,3,5-TNB]	1.9	0.20	2.020	0	93.4	73	125	1.933	2.44	20	
1,3-Dinitrobenzene [1,3-DNB]	1.7	0.20	2.020	0	85.8	78	120	1.831	5.43	20	
2,4,6-Trinitrotoluene	1.9	0.20	2.020	0	94.6	71	123	2.135	11.0	20	
2,4-Dinitrotoluene	2.1	0.20	2.020	0	103	78	120	2.127	2.58	20	
2,6-Dinitrotoluene	1.9	0.20	2.020	0	96.2	77	127	2.089	7.27	20	
2-Amino-4,6-dinitrotoluene	2.2	0.20	2.020	0	107	79	120	2.108	2.47	20	
2-Nitrotoluene	2.1	0.20	2.020	0	105	70	127	2.379	11.1	20	
3-Nitrotoluene	2.0	0.20	2.020	0	101	73	125	2.109	2.94	20	
4-Amino-2,6-dinitrotoluene	2.5	0.20	2.020	0	125	76	125	2.726	7.26	20	Q
4-Nitrotoluene	2.2	0.20	2.020	0	106	71	127	2.554	17.1	20	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.7	0.20	2.020	0	85.8	68	130	1.722	0.658	20	B
Nitrobenzene	2.0	0.20	2.020	0	97.5	65	134	1.983	0.688	20	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	1.7	0.20	2.020	0	85.2	65	135	1.727	0.285	20	
Tetryl	2.1	0.30	2.020	0	105	64	128	2.294	8.30	20	
Surr: 4-Nitroaniline	1.9		2.020		93.7	70	130		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40258**

Sample ID:	**LCS-40258**	Samp Type:	**LCS**	Test Code:	**SW_8270S-SIM**	Units:	**%Rec**	Prep Date:	**6/26/2016**	RunNo:	**87786**
Client ID:	**LCSS**	Batch ID:	**40258**	TestNo:	**SW8270C**	**SW3550C**		Analysis Date:	**8/1/2016**	SeqNo:	**1706011**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	20		16.26		124	46	115				Q
Surr: Nitrobenzene-d5	24		16.26		145	44	125				Q
Surr: Terphenyl-d14	22		16.26		134	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	MB-40280	Samp Type:	MBLK	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	PBS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706006

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	19		16.27		116	46	115				Q
Surr: Nitrobenzene-d5	21		16.27		126	44	125				Q
Surr: Terphenyl-d14	21		16.27		128	58	133				

Sample ID:	LCS-40280	Samp Type:	LCS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87786
Client ID:	LCSS	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/1/2016	SeqNo:	1706008

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	21		16.66		125	46	115				Q
Surr: Nitrobenzene-d5	23		16.66		140	44	125				Q
Surr: Terphenyl-d14	22		16.66		133	58	133				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40329**

Sample ID:	LCS-40329	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	LCSW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693763

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	95.9	50	114				
Aroclor 1260	2.0	0.15	2.000	0	102	20	127				
Surr: Tetrachloro-m-xylene	0.073		0.1000		73.5	48	111				
Surr: Decachlorobiphenyl	0.10		0.1000		100	47	122				

Sample ID:	LCSD-40329	Samp Type:	LCSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	LCSS02	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693764

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	93.7	50	114	1.918	2.37	25	
Aroclor 1260	2.0	0.15	2.000	0	98.3	20	127	2.044	3.95	25	
Surr: Tetrachloro-m-xylene	0.079		0.1000		79.0	48	111		0	25	
Surr: Decachlorobiphenyl	0.094		0.1000		94.4	47	122		0	25	

Sample ID:	MB-40329	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	PBW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693765

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.088		0.1000		87.6	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		110	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40329**

Sample ID:	LCS-40329	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	LCSW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693976

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	95.9	46	129				
Aroclor 1260	2.0	0.20	2.000	0	102	45	134				
Surr: Tetrachloro-m-xylene	0.073		0.1000		73.5	40	135				
Surr: Decachlorobiphenyl	0.10		0.1000		100	40	135				

Sample ID:	LCSD-40329	Samp Type:	LCSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	LCSS02	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693977

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	93.7	46	129	1.918	2.37	25	
Aroclor 1260	2.0	0.20	2.000	0	98.3	45	134	2.044	3.95	25	
Surr: Tetrachloro-m-xylene	0.079		0.1000		79.0	40	135		0	25	
Surr: Decachlorobiphenyl	0.094		0.1000		94.4	40	135		0	25	

Sample ID:	MB-40329	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	PBW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693978

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.088		0.1000		87.6	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		110	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40338**

Sample ID:	LCS-40338	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	LCSW	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694300

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	450	2.5	400.0	0	113	85	117				G
Silver	440	1.5	400.0	0	110	85	116				

Sample ID:	MB-40338	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	PBW	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694301

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	2.5	2.5									UG
Silver	1.5	1.5									U

Sample ID:	1606636-011BMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	ZZZZZZ	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694304

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	450	2.5	400.0	10.08	111	85	117				G
Silver	430	1.5	400.0	6.900	105	85	116				

Sample ID:	1606636-011BMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87288
Client ID:	ZZZZZZ	Batch ID:	40338	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694306

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	440	2.5	400.0	10.08	108	85	117	454.9	3.31	20	G
Silver	410	1.5	400.0	6.900	101	85	116	426.6	3.47	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40370**

Sample ID:	LCS-40370	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	LCSW	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694484

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	410	2.5	400.0	0	104	85	117				G
Silver	420	1.5	400.0	0	105	85	116				

Sample ID:	MB-40370	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	PBW	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694485

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	2.5	2.5									UG
Silver	1.5	1.5									U

Sample ID:	1606833-015DMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	ZZZZZZ	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694500

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	440	2.5	400.0	1.015	110	85	117				G
Silver	440	1.5	400.0	0	109	85	116				

Sample ID:	1606833-015DMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	ZZZZZZ	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694516

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	430	2.5	400.0	1.015	108	85	117	440.4	1.96	20	G
Silver	430	1.5	400.0	0	106	85	116	436.0	2.55	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40397**

Sample ID:	LCS-40397	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87472
Client ID:	LCSW	Batch ID:	40397	TestNo:	SW8082	SW3510C		Analysis Date:	7/15/2016	SeqNo:	1698598

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.10	2.000	0	79.1	50	114				
Aroclor 1260	1.7	0.15	2.000	0	85.7	20	127				
Surr: Tetrachloro-m-xylene	0.065		0.1000		65.4	48	111				
Surr: Decachlorobiphenyl	0.085		0.1000		85.3	47	122				

Sample ID:	LCSD-40397	Samp Type:	LCSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87472
Client ID:	LCSS02	Batch ID:	40397	TestNo:	SW8082	SW3510C		Analysis Date:	7/15/2016	SeqNo:	1698599

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.10	2.000	0	76.7	50	114	1.583	3.09	25	
Aroclor 1260	1.8	0.15	2.000	0	87.8	20	127	1.713	2.43	25	
Surr: Tetrachloro-m-xylene	0.057		0.1000		57.2	48	111		0	25	
Surr: Decachlorobiphenyl	0.088		0.1000		88.2	47	122		0	25	

Sample ID:	MB-40397	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87472
Client ID:	PBW	Batch ID:	40397	TestNo:	SW8082	SW3510C		Analysis Date:	7/15/2016	SeqNo:	1698600

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.069		0.1000		69.4	40	135				
Surr: Decachlorobiphenyl	0.070		0.1000		69.8	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40397**

Sample ID:	LCS-40397	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87474
Client ID:	LCSW	Batch ID:	40397	TestNo:	SW8082	SW3510C		Analysis Date:	7/15/2016	SeqNo:	1698631

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.10	2.000	0	78.5	50	114				
Aroclor 1260	2.0	0.15	2.000	0	98.9	20	127				
Surr: Tetrachloro-m-xylene	0.064		0.1000		63.7	48	111				
Surr: Decachlorobiphenyl	0.099		0.1000		99.5	47	122				

Sample ID:	LCSD-40397	Samp Type:	LCSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87474
Client ID:	LCSS02	Batch ID:	40397	TestNo:	SW8082	SW3510C		Analysis Date:	7/15/2016	SeqNo:	1698632

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.10	2.000	0	82.1	50	114	1.583	3.60	25	
Aroclor 1260	2.0	0.15	2.000	0	102	20	127	1.713	17.6	25	
Surr: Tetrachloro-m-xylene	0.063		0.1000		63.4	48	111		0	25	
Surr: Decachlorobiphenyl	0.10		0.1000		102	47	122		0	25	

Sample ID:	MB-40397	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87474
Client ID:	PBW	Batch ID:	40397	TestNo:	SW8082	SW3510C		Analysis Date:	7/15/2016	SeqNo:	1698633

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.066		0.1000		66.3	40	135				
Surr: Decachlorobiphenyl	0.079		0.1000		79.2	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40397

Sample ID:	LCS-40397	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87558
Client ID:	LCSW	Batch ID:	40397	TestNo:	SW8082	SW3510C		Analysis Date:	7/15/2016	SeqNo:	1700604

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.6	0.10	2.000	0	79.1	46	129				
Aroclor 1260	1.7	0.20	2.000	0	85.7	45	134				
Surr: Tetrachloro-m-xylene	0.065		0.1000		65.4	40	135				
Surr: Decachlorobiphenyl	0.085		0.1000		85.3	40	135				

Sample ID:	LCSD-40397	Samp Type:	LCSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87558
Client ID:	LCSS02	Batch ID:	40397	TestNo:	SW8082	SW3510C		Analysis Date:	7/15/2016	SeqNo:	1700605

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.5	0.10	2.000	0	76.7	46	129	1.583	3.09	25	
Aroclor 1260	1.8	0.20	2.000	0	87.8	45	134	1.713	2.43	25	
Surr: Tetrachloro-m-xylene	0.057		0.1000		57.2	40	135		0	25	
Surr: Decachlorobiphenyl	0.088		0.1000		88.2	40	135		0	25	

Sample ID:	MB-40397	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87558
Client ID:	PBW	Batch ID:	40397	TestNo:	SW8082	SW3510C		Analysis Date:	7/15/2016	SeqNo:	1700606

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.069		0.1000		69.4	40	135				
Surr: Decachlorobiphenyl	0.070		0.1000		69.8	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40425

Sample ID:	LCS-40425	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/13/2016	RunNo:	87810
Client ID:	LCSW	Batch ID:	40425	TestNo:	SW6020A	SW3020A		Analysis Date:	8/3/2016	SeqNo:	1706961

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	200	1.5	200.0	0	100	84	116				
Barium	190	25	200.0	0	93.1	86	114				
Beryllium	190	1.0	200.0	0	94.3	83	121				
Cadmium	200	1.0	200.0	0	101	87	115				
Calcium	2,000	1,000	2,000	0	102	87	118				
Chromium	210	10	200.0	0	103	85	116				
Iron	2,200	200	2,000	0	111	87	118				
Lead	210	1.0	200.0	0	104	88	115				
Magnesium	1,900	500	2,000	0	97.1	83	118				
Manganese	210	5.0	200.0	0	106	87	115				
Potassium	1,900	500	2,000	0	96.4	87	115				
Selenium	190	5.0	200.0	0	95.9	80	120				
Sodium	2,200	500	2,000	0	108	85	117				
Thallium	200	2.0	200.0	0	102	82	116				
Vanadium	200	4.0	200.0	0	99.3	86	115				
Zinc	200	50	200.0	0	99.3	83	119				

Sample ID:	MB-40425	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/13/2016	RunNo:	87810
Client ID:	PBW	Batch ID:	40425	TestNo:	SW6020A	SW3020A		Analysis Date:	8/3/2016	SeqNo:	1706965

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	1.5	1.5									U
Barium	25	25									U
Beryllium	1.0	1.0									U
Cadmium	1.0	1.0									U
Calcium	1,000	1,000									U
Chromium	10	10									U
Iron	200	200									U
Lead	1.0	1.0									U
Magnesium	500	500									U
Manganese	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40425

Sample ID:	MB-40425	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/13/2016	RunNo:	87810
Client ID:	PBW	Batch ID:	40425	TestNo:	SW6020A	SW3020A		Analysis Date:	8/3/2016	SeqNo:	1706965

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Potassium	500	500									U
Selenium	5.0	5.0									U
Sodium	500	500									U
Thallium	2.0	2.0									U
Vanadium	4.0	4.0									U
Zinc	50	50									U

Sample ID:	1606675-013DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/13/2016	RunNo:	87810
Client ID:	H21-SB01-GWMS1	Batch ID:	40425	TestNo:	SW6020A	SW3020A		Analysis Date:	8/3/2016	SeqNo:	1706990

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	200	1.5	200.0	0	101	84	116				
Beryllium	190	1.0	200.0	0	92.6	83	121				
Cadmium	210	1.0	200.0	0	104	87	115				
Calcium	7,300	1,000	2,000	5,024	114	87	118				
Chromium	210	10	200.0	6.290	103	85	116				
Iron	6,900	200	2,000	4,658	111	87	118				
Lead	220	1.0	200.0	2.100	110	88	115				
Magnesium	6,300	500	2,000	4,474	92.0	83	118				
Manganese	1,100	5.0	200.0	831.8	110	87	115				
Potassium	4,900	500	2,000	2,999	93.6	87	115				
Selenium	190	5.0	200.0	0	95.4	80	120				
Sodium	27,000	500	2,000	24,460	103	85	117				
Thallium	210	2.0	200.0	0	107	82	116				
Vanadium	210	4.0	200.0	7.665	99.1	86	115				
Zinc	210	50	200.0	11.11	100	83	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40425

Sample ID:	1606675-013DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/13/2016	RunNo:	87810
Client ID:	H21-SB01-GWSD1	Batch ID:	40425	TestNo:	SW6020A	SW3020A		Analysis Date:	8/3/2016	SeqNo:	1706993

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	200	1.5	200.0	0	100	84	116	202.4	1.12	20	
Beryllium	180	1.0	200.0	0	90.5	83	121	185.2	2.25	20	
Cadmium	200	1.0	200.0	0	101	87	115	207.8	2.97	20	
Calcium	7,000	1,000	2,000	5,024	101	87	118	7,304	3.66	20	
Chromium	200	10	200.0	6.290	99.3	85	116	211.7	3.27	20	
Iron	6,800	200	2,000	4,658	109	87	118	6,869	0.393	20	
Lead	220	1.0	200.0	2.100	107	88	115	221.4	2.16	20	
Magnesium	6,100	500	2,000	4,474	81.9	83	118	6,314	3.25	20	Q
Manganese	1,000	5.0	200.0	831.8	97.0	87	115	1,051	2.44	20	
Potassium	4,800	500	2,000	2,999	87.7	87	115	4,871	2.44	20	
Selenium	200	5.0	200.0	0	98.9	80	120	190.8	3.56	20	
Sodium	26,000	500	2,000	24,460	67.2	85	117	26,520	2.74	20	Q
Thallium	210	2.0	200.0	0	105	82	116	214.3	1.71	20	
Vanadium	200	4.0	200.0	7.665	96.7	86	115	205.9	2.41	20	
Zinc	210	50	200.0	11.11	98.2	83	119	211.1	1.76	20	

Sample ID:	MB-40425	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/13/2016	RunNo:	87826
Client ID:	PBW	Batch ID:	40425	TestNo:	SW6020A	SW3020A		Analysis Date:	8/4/2016	SeqNo:	1707629

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	50	50									UY
Cobalt	5.0	5.0									U
Copper	5.0	5.0									U
Nickel	10	10									U

Sample ID:	LCS-40425	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/13/2016	RunNo:	87826
Client ID:	LCSW	Batch ID:	40425	TestNo:	SW6020A	SW3020A		Analysis Date:	8/4/2016	SeqNo:	1707630

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	230	50	200.0	0	113	84	117				Y
Cobalt	210	5.0	200.0	0	103	86	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40425

Sample ID:	LCS-40425	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/13/2016	RunNo:	87826
Client ID:	LCSW	Batch ID:	40425	TestNo:	SW6020A	SW3020A		Analysis Date:	8/4/2016	SeqNo:	1707630

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Copper	220	5.0	200.0	0	108	85	118				
Nickel	210	10	200.0	0	103	85	117				

Sample ID:	1606675-013DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/13/2016	RunNo:	87826
Client ID:	H21-SB01-GWMS1	Batch ID:	40425	TestNo:	SW6020A	SW3020A		Analysis Date:	8/4/2016	SeqNo:	1707851

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5,400	50	200.0	4,339	540	84	117				Q
Barium	270	25	200.0	57.40	107	86	114				
Cobalt	200	5.0	200.0	6.810	96.7	86	115				
Copper	200	5.0	200.0	4.130	98.9	85	118				
Nickel	200	10	200.0	9.750	96.1	85	117				

Sample ID:	1606675-013DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/13/2016	RunNo:	87826
Client ID:	H21-SB01-GWSD1	Batch ID:	40425	TestNo:	SW6020A	SW3020A		Analysis Date:	8/4/2016	SeqNo:	1707852

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	5,500	50	200.0	4,339	604	84	117	5,419	2.36	20	Q
Barium	280	25	200.0	57.40	109	86	114	270.5	1.91	20	
Cobalt	200	5.0	200.0	6.810	97.8	86	115	200.3	1.02	20	
Copper	210	5.0	200.0	4.130	101	85	118	201.8	2.39	20	
Nickel	200	10	200.0	9.750	97.2	85	117	201.9	1.14	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87032

Sample ID:	VOA10 LCS 062916	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87032
Client ID:	LCSW	Batch ID:	R87032	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688368

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.5	1.0	10.00	0	95.1	78	124				
1,1,1-Trichloroethane	8.9	1.0	10.00	0	89.3	74	131				
1,1,2,2-Tetrachloroethane	9.7	1.0	10.00	0	96.8	71	121				
1,1,2-Trichloroethane	9.9	1.0	10.00	0	98.8	80	119				
1,1-Dichloroethane	8.7	1.0	10.00	0	87.4	77	125				
1,1-Dichloroethene	8.5	1.0	10.00	0	85.3	71	131				
1,2,3-Trichloropropane	8.7	1.0	10.00	0	86.7	73	122				
1,2-Dibromo-3-chloropropane	8.0	1.0	10.00	0	80.2	62	128				Y
1,2-Dibromoethane	9.8	1.0	10.00	0	97.9	77	121				
1,2-Dichloroethane	9.6	1.0	10.00	0	95.8	73	128				
1,2-Dichloropropane	9.8	1.0	10.00	0	97.8	78	122				
2-Butanone [MEK]	9.7	10	10.00	0	97.0	56	143				J
2-Hexanone	9.7	2.0	10.00	0	96.8	57	139				
Acetone	9.6	10	10.00	0	95.7	39	160				JY
Benzene	8.4	1.0	10.00	0	84.1	79	120				
Bromodichloromethane	10	1.0	10.00	0	101	79	125				
Bromoform	7.1	1.0	10.00	0	70.9	66	130				
Carbon disulfide	8.3	1.0	10.00	0	83.3	64	133				
Carbon tetrachloride	9.0	1.0	10.00	0	90.5	72	136				
Chlorobenzene	9.0	1.0	10.00	0	90.1	82	118				
Chlorodibromomethane	10	1.0	10.00	0	104	74	126				
Chloroethane	9.0	2.0	10.00	0	90.3	60	138				
Chloroform	9.1	1.0	10.00	0	91.0	79	124				
Chloromethane	8.4	1.0	10.00	0	84.4	50	139				
cis-1,2-Dichloroethene	8.8	1.0	10.00	0	87.8	78	123				
cis-1,3-Dichloropropene	9.1	1.0	10.00	0	91.2	75	124				
Dichlorodifluoromethane [Freon-12]	7.8	1.0	10.00	0	77.6	32	152				
Ethylbenzene	9.1	1.0	10.00	0	90.7	79	121				
Methylene chloride	11	2.0	10.00	0	108	74	124				
Styrene	9.5	1.0	10.00	0	95.0	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87032

Sample ID:	VOA10 LCS 062916	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87032
Client ID:	LCSW	Batch ID:	R87032	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688368

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	9.4	1.0	10.00	0	94.0	74	129				
Toluene	10	1.0	10.00	0	105	80	121				
trans-1,2-Dichloroethene	9.0	1.0	10.00	0	89.8	75	124				
trans-1,3-Dichloropropene	9.4	1.0	10.00	0	93.5	73	127				
Trichloroethene	10	1.0	10.00	0	99.7	79	123				
Trichlorofluoromethane [Freon-11]	9.4	1.0	10.00	0	94.0	65	141				
Vinyl acetate	9.5	5.0	10.00	0	94.7	54	146				
Vinyl chloride	9.2	1.0	10.00	0	91.7	58	137				
Xylene (total)	27	3.0	30.00	0	89.9	79	121				
Surr: 4-Bromofluorobenzene	61		60.00		102	85	114				
Surr: Dibromofluoromethane	51		60.00		85.5	80	119				
Surr: Toluene-d8	59		60.00		97.8	89	112				

Sample ID:	VOA10 MBLK 06281	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87032
Client ID:	PBW	Batch ID:	R87032	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688370

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	1.0	1.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	1.0	1.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	10	10									UY

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87032

Sample ID:	VOA10 MBLK 06281	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87032
Client ID:	PBW	Batch ID:	R87032	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688370

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	2.0	2.0									U
Styrene	1.0	1.0									U
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	48		50.00		95.2	85	114				
Surr: Dibromofluoromethane	41		50.00		81.2	80	119				
Surr: Toluene-d8	46		50.00		92.0	89	112				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87032

Sample ID:	1606636-011AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87032
Client ID:	ZZZZZZ	Batch ID:	R87032	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688513

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.7	1.0	10.00	0	96.8	78	124				
1,1,1-Trichloroethane	9.3	1.0	10.00	0	93.3	74	131				
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	101	71	121				
1,1,2-Trichloroethane	10	1.0	10.00	0	101	80	119				
1,1-Dichloroethane	9.8	1.0	10.00	0	97.8	77	125				
1,1-Dichloroethene	9.4	1.0	10.00	0	94.2	71	131				
1,2,3-Trichloropropane	9.2	1.0	10.00	0	92.4	73	122				
1,2-Dibromo-3-chloropropane	5.7	1.0	10.00	0	57.2	62	128				QY
1,2-Dibromoethane	10	1.0	10.00	0	103	77	121				
1,2-Dichloroethane	10	1.0	10.00	0	102	73	128				
1,2-Dichloropropane	11	1.0	10.00	0	108	78	122				
2-Butanone [MEK]	11	10	10.00	0	108	56	143				
2-Hexanone	12	2.0	10.00	0	115	57	139				
Acetone	12	10	10.00	2.040	103	39	160				Y
Benzene	9.3	1.0	10.00	0	93.0	79	120				
Bromodichloromethane	11	1.0	10.00	0	113	79	125				
Bromoform	7.3	1.0	10.00	0	72.9	66	130				
Carbon disulfide	9.0	1.0	10.00	0	89.5	64	133				
Carbon tetrachloride	9.4	1.0	10.00	0	93.6	72	136				
Chlorobenzene	9.5	1.0	10.00	0	94.8	82	118				
Chlorodibromomethane	11	1.0	10.00	0	112	74	126				
Chloroethane	11	2.0	10.00	0	114	60	138				
Chloroform	9.6	1.0	10.00	0	95.8	79	124				
Chloromethane	10	1.0	10.00	0	103	50	139				
cis-1,2-Dichloroethene	9.2	1.0	10.00	0	91.7	78	123				
cis-1,3-Dichloropropene	9.8	1.0	10.00	0	97.5	75	124				
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	101	32	152				
Ethylbenzene	9.4	1.0	10.00	0	94.5	79	121				
Methylene chloride	11	2.0	10.00	0	115	74	124				
Styrene	10	1.0	10.00	0	101	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87032

Sample ID: **1606636-011AMS** Samp Type: **MS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/29/2016** RunNo: **87032**

Client ID: **ZZZZZZ** Batch ID: **R87032** TestNo: **SW8260B** Analysis Date: **6/29/2016** SeqNo: **1688513**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	11	1.0	10.00	0	108	74	129				
Toluene	11	1.0	10.00	0	114	80	121				
trans-1,2-Dichloroethene	11	1.0	10.00	0	106	75	124				
trans-1,3-Dichloropropene	9.9	1.0	10.00	0	99.4	73	127				
Trichloroethene	10	1.0	10.00	0	100	79	123				
Trichlorofluoromethane [Freon-11]	11	1.0	10.00	0	113	65	141				
Vinyl acetate	9.9	5.0	10.00	0	98.9	54	146				
Vinyl chloride	12	1.0	10.00	0	116	58	137				
Xylene (total)	29	3.0	30.00	0	96.8	79	121				
Surr: 4-Bromofluorobenzene	61		60.00		101	85	114				
Surr: Dibromofluoromethane	52		60.00		87.0	80	119				
Surr: Toluene-d8	61		60.00		101	89	112				

Sample ID: **1606636-011AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/29/2016** RunNo: **87032**

Client ID: **ZZZZZZ** Batch ID: **R87032** TestNo: **SW8260B** Analysis Date: **6/29/2016** SeqNo: **1688537**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.7	1.0	10.00	0	96.7	78	124	9.680	0.103	20	
1,1,1-Trichloroethane	9.3	1.0	10.00	0	92.7	74	131	9.330	0.645	20	
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	100	71	121	10.11	0.894	20	
1,1,2-Trichloroethane	11	1.0	10.00	0	108	80	119	10.09	7.26	20	
1,1-Dichloroethane	9.6	1.0	10.00	0	96.4	77	125	9.780	1.44	20	
1,1-Dichloroethene	9.4	1.0	10.00	0	94.5	71	131	9.420	0.318	20	
1,2,3-Trichloropropane	9.4	1.0	10.00	0	93.6	73	122	9.240	1.29	20	
1,2-Dibromo-3-chloropropane	6.2	1.0	10.00	0	61.8	62	128	5.720	7.73	20	QY
1,2-Dibromoethane	10	1.0	10.00	0	101	77	121	10.30	2.46	20	
1,2-Dichloroethane	11	1.0	10.00	0	105	73	128	10.24	2.70	20	
1,2-Dichloropropane	11	1.0	10.00	0	106	78	122	10.75	0.935	20	
2-Butanone [MEK]	11	10	10.00	0	113	56	143	10.79	4.44	20	
2-Hexanone	12	2.0	10.00	0	118	57	139	11.52	2.82	20	
Acetone	13	10	10.00	2.040	111	39	160	12.36	6.35	20	Y

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87032

Sample ID:	1606636-011AMSD	Samp Type:	MSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87032
Client ID:	ZZZZZZ	Batch ID:	R87032	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688537

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	9.2	1.0	10.00	0	91.8	79	120	9.300	1.30	20	
Bromodichloromethane	11	1.0	10.00	0	112	79	125	11.29	0.622	20	
Bromoform	7.5	1.0	10.00	0	75.2	66	130	7.290	3.11	20	
Carbon disulfide	8.6	1.0	10.00	0	85.6	64	133	8.950	4.45	20	
Carbon tetrachloride	9.6	1.0	10.00	0	96.0	72	136	9.360	2.53	20	
Chlorobenzene	9.5	1.0	10.00	0	94.8	82	118	9.480	0	20	
Chlorodibromomethane	10	1.0	10.00	0	103	74	126	11.18	8.48	20	
Chloroethane	11	2.0	10.00	0	114	60	138	11.44	0.702	20	
Chloroform	9.3	1.0	10.00	0	92.8	79	124	9.580	3.18	20	
Chloromethane	10	1.0	10.00	0	103	50	139	10.27	0.195	20	
cis-1,2-Dichloroethene	8.9	1.0	10.00	0	89.2	78	123	9.170	2.76	20	
cis-1,3-Dichloropropene	9.2	1.0	10.00	0	91.9	75	124	9.750	5.91	20	
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	101	32	152	10.10	0	20	
Ethylbenzene	9.0	1.0	10.00	0	90.2	79	121	9.450	4.66	20	
Methylene chloride	11	2.0	10.00	0	112	74	124	11.46	2.03	20	
Styrene	9.5	1.0	10.00	0	94.7	78	123	10.05	5.94	20	
Tetrachloroethene	10	1.0	10.00	0	100	74	129	10.84	8.06	20	
Toluene	11	1.0	10.00	0	110	80	121	11.44	3.74	20	
trans-1,2-Dichloroethene	10	1.0	10.00	0	100	75	124	10.65	6.20	20	
trans-1,3-Dichloropropene	9.9	1.0	10.00	0	98.8	73	127	9.940	0.605	20	
Trichloroethene	10	1.0	10.00	0	100	79	123	10.04	0.199	20	
Trichlorofluoromethane [Freon-11]	11	1.0	10.00	0	110	65	141	11.29	2.51	20	
Vinyl acetate	10	5.0	10.00	0	102	54	146	9.890	2.99	20	
Vinyl chloride	12	1.0	10.00	0	116	58	137	11.58	0.603	20	
Xylene (total)	28	3.0	30.00	0	93.8	79	121	29.03	3.15	20	
Surr: 4-Bromofluorobenzene	61		60.00		101	85	114		0	20	
Surr: Dibromofluoromethane	52		60.00		87.5	80	119		0	20	
Surr: Toluene-d8	60		60.00		100	89	112		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87032

Sample ID:	1606636-012AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87032
Client ID:	ZZZZZZ	Batch ID:	R87032	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688746

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	10	1.0	10.00	0	102	78	124				
1,1,1-Trichloroethane	9.5	1.0	10.00	0	95.3	74	131				
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	101	71	121				
1,1,2-Trichloroethane	11	1.0	10.00	0	112	80	119				
1,1-Dichloroethane	9.8	1.0	10.00	0	98.1	77	125				
1,1-Dichloroethene	9.8	1.0	10.00	0	97.7	71	131				
1,2,3-Trichloropropane	9.2	1.0	10.00	0	92.2	73	122				
1,2-Dibromo-3-chloropropane	7.1	1.0	10.00	0	70.8	62	128				Y
1,2-Dibromoethane	10	1.0	10.00	0	101	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	106	73	128				
1,2-Dichloropropane	11	1.0	10.00	0	110	78	122				
2-Butanone [MEK]	11	10	10.00	0	112	56	143				
2-Hexanone	12	2.0	10.00	0	125	57	139				
Acetone	13	10	10.00	3.100	95.6	39	160				Y
Benzene	9.2	1.0	10.00	0	91.9	79	120				
Bromodichloromethane	11	1.0	10.00	0	114	79	125				
Bromoform	7.9	1.0	10.00	0	79.3	66	130				
Carbon disulfide	9.2	1.0	10.00	0	91.5	64	133				
Carbon tetrachloride	9.8	1.0	10.00	0	97.7	72	136				
Chlorobenzene	9.6	1.0	10.00	0	95.9	82	118				
Chlorodibromomethane	11	1.0	10.00	0	112	74	126				
Chloroethane	11	2.0	10.00	0	113	60	138				
Chloroform	9.4	1.0	10.00	0	93.5	79	124				
Chloromethane	10	1.0	10.00	0	104	50	139				
cis-1,2-Dichloroethene	9.7	1.0	10.00	0	96.8	78	123				
cis-1,3-Dichloropropene	9.2	1.0	10.00	0	91.9	75	124				
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	101	32	152				
Ethylbenzene	9.6	1.0	10.00	0	95.6	79	121				
Methylene chloride	12	2.0	10.00	0	115	74	124				
Styrene	10	1.0	10.00	0	100	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87032

Sample ID: **1606636-012AMS** Samp Type: **MS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/29/2016** RunNo: **87032**

Client ID: **ZZZZZZ** Batch ID: **R87032** TestNo: **SW8260B** Analysis Date: **6/29/2016** SeqNo: **1688746**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	10	1.0	10.00	0	101	74	129				
Toluene	12	1.0	10.00	0	116	80	121				
trans-1,2-Dichloroethene	10	1.0	10.00	0	104	75	124				
trans-1,3-Dichloropropene	10	1.0	10.00	0	101	73	127				
Trichloroethene	9.8	1.0	10.00	0	97.7	79	123				
Trichlorofluoromethane [Freon-11]	12	1.0	10.00	0	116	65	141				
Vinyl acetate	10	5.0	10.00	0	100	54	146				
Vinyl chloride	12	1.0	10.00	0	117	58	137				
Xylene (total)	29	3.0	30.00	0	97.6	79	121				
Surr: 4-Bromofluorobenzene	62		60.00		103	85	114				
Surr: Dibromofluoromethane	52		60.00		86.8	80	119				
Surr: Toluene-d8	61		60.00		102	89	112				

Sample ID: **1606636-012AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/29/2016** RunNo: **87032**

Client ID: **ZZZZZZ** Batch ID: **R87032** TestNo: **SW8260B** Analysis Date: **6/29/2016** SeqNo: **1688747**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.3	1.0	10.00	0	92.6	78	124	10.23	9.95	20	
1,1,1-Trichloroethane	8.8	1.0	10.00	0	88.3	74	131	9.530	7.63	20	
1,1,2,2-Tetrachloroethane	8.8	1.0	10.00	0	87.6	71	121	10.10	14.2	20	
1,1,2-Trichloroethane	10	1.0	10.00	0	104	80	119	11.17	7.04	20	
1,1-Dichloroethane	9.4	1.0	10.00	0	93.5	77	125	9.810	4.80	20	
1,1-Dichloroethene	8.8	1.0	10.00	0	87.7	71	131	9.770	10.8	20	
1,2,3-Trichloropropane	8.5	1.0	10.00	0	84.6	73	122	9.220	8.60	20	
1,2-Dibromo-3-chloropropane	5.3	1.0	10.00	0	53.2	62	128	7.080	28.4	20	RQY
1,2-Dibromoethane	9.6	1.0	10.00	0	96.1	77	121	10.08	4.77	20	
1,2-Dichloroethane	10	1.0	10.00	0	99.5	73	128	10.62	6.51	20	
1,2-Dichloropropane	10	1.0	10.00	0	102	78	122	10.97	7.27	20	
2-Butanone [MEK]	10	10	10.00	0	99.8	56	143	11.21	11.6	20	J
2-Hexanone	9.8	2.0	10.00	0	98.0	57	139	12.49	24.1	20	R
Acetone	12	10	10.00	3.100	85.0	39	160	12.66	8.74	20	Y

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87032

Sample ID:	1606636-012AMSD	Samp Type:	MSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87032
Client ID:	ZZZZZZ	Batch ID:	R87032	TestNo:	SW8260B			Analysis Date:	6/29/2016	SeqNo:	1688747

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	8.9	1.0	10.00	0	88.6	79	120	9.190	3.66	20	
Bromodichloromethane	11	1.0	10.00	0	108	79	125	11.38	5.32	20	
Bromoform	6.7	1.0	10.00	0	66.7	66	130	7.930	17.3	20	
Carbon disulfide	8.4	1.0	10.00	0	83.6	64	133	9.150	9.02	20	
Carbon tetrachloride	9.1	1.0	10.00	0	91.0	72	136	9.770	7.10	20	
Chlorobenzene	8.9	1.0	10.00	0	88.6	82	118	9.590	7.91	20	
Chlorodibromomethane	9.8	1.0	10.00	0	97.9	74	126	11.20	13.4	20	
Chloroethane	10	2.0	10.00	0	99.8	60	138	11.28	12.2	20	
Chloroform	9.0	1.0	10.00	0	89.6	79	124	9.350	4.26	20	
Chloromethane	9.5	1.0	10.00	0	95.4	50	139	10.39	8.53	20	
cis-1,2-Dichloroethene	9.1	1.0	10.00	0	91.3	78	123	9.680	5.85	20	
cis-1,3-Dichloropropene	8.8	1.0	10.00	0	88.5	75	124	9.190	3.77	20	
Dichlorodifluoromethane [Freon-12]	9.2	1.0	10.00	0	92.3	32	152	10.12	9.20	20	
Ethylbenzene	8.7	1.0	10.00	0	87.3	79	121	9.560	9.08	20	
Methylene chloride	11	2.0	10.00	0	110	74	124	11.50	4.63	20	
Styrene	9.0	1.0	10.00	0	89.7	78	123	10.00	10.9	20	
Tetrachloroethene	10	1.0	10.00	0	101	74	129	10.06	0.693	20	
Toluene	11	1.0	10.00	0	110	80	121	11.63	5.48	20	
trans-1,2-Dichloroethene	9.5	1.0	10.00	0	95.2	75	124	10.35	8.35	20	
trans-1,3-Dichloropropene	9.0	1.0	10.00	0	90.4	73	127	10.10	11.1	20	
Trichloroethene	9.3	1.0	10.00	0	92.9	79	123	9.770	5.04	20	
Trichlorofluoromethane [Freon-11]	11	1.0	10.00	0	106	65	141	11.63	9.46	20	
Vinyl acetate	9.2	5.0	10.00	0	91.5	54	146	10.04	9.28	20	
Vinyl chloride	11	1.0	10.00	0	109	58	137	11.68	6.91	20	
Xylene (total)	27	3.0	30.00	0	88.7	79	121	29.29	9.59	20	
Surr: 4-Bromofluorobenzene	60		60.00		99.8	85	114		0	20	
Surr: Dibromofluoromethane	51		60.00		85.0	80	119		0	20	
Surr: Toluene-d8	61		60.00		101	89	112		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Batch ID: R87063

Sample ID:	VOA10 LCS 063016	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/30/2016	RunNo:	87063
Client ID:	LCSW	Batch ID:	R87063	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688907

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	11	1.0	10.00	0	105	78	124				
1,1,1-Trichloroethane	9.9	1.0	10.00	0	99.2	74	131				
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	99.7	71	121				
1,1,2-Trichloroethane	11	1.0	10.00	0	110	80	119				
1,1-Dichloroethane	9.8	2.0	10.00	0	98.3	77	125				
1,1-Dichloroethene	10	1.0	10.00	0	101	71	131				
1,2,3-Trichloropropane	9.5	1.0	10.00	0	94.7	73	122				
1,2-Dibromo-3-chloropropane	8.2	5.0	10.00	0	81.8	62	128				Y
1,2-Dibromoethane	11	1.0	10.00	0	109	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	107	73	128				
1,2-Dichloropropane	11	1.0	10.00	0	110	78	122				
2-Butanone [MEK]	10	10	10.00	0	102	56	143				
2-Hexanone	10	2.0	10.00	0	103	57	139				
Acetone	10	10	10.00	0	104	39	160				
Benzene	9.7	1.0	10.00	0	96.9	79	120				
Bromodichloromethane	12	1.0	10.00	0	115	79	125				Y
Bromoform	7.7	1.0	10.00	0	77.3	66	130				
Carbon disulfide	9.6	1.0	10.00	0	95.9	64	133				
Carbon tetrachloride	10	1.0	10.00	0	102	72	136				
Chlorobenzene	9.7	1.0	10.00	0	97.1	82	118				
Chlorodibromomethane	11	1.0	10.00	0	106	74	126				Y
Chloroethane	12	2.0	10.00	0	116	60	138				
Chloroform	10	1.0	10.00	0	102	79	124				
Chloromethane	13	1.0	10.00	0	125	50	139				
cis-1,2-Dichloroethene	11	1.0	10.00	0	105	78	123				
cis-1,3-Dichloropropene	9.9	1.0	10.00	0	99.4	75	124				
Dichlorodifluoromethane [Freon-12]	11	1.0	10.00	0	115	32	152				
Ethylbenzene	9.6	1.0	10.00	0	96.4	79	121				
Methylene chloride	13	5.0	10.00	0	133	74	124				Q
Styrene	10	1.0	10.00	0	101	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87063

Sample ID: **VOA10 LCS 063016** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/30/2016** RunNo: **87063**

Client ID: **LCSW** Batch ID: **R87063** TestNo: **SW8260B** Analysis Date: **6/30/2016** SeqNo: **1688907**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	10	1.0	10.00	0	102	74	129				
Toluene	12	1.0	10.00	0	119	80	121				
trans-1,2-Dichloroethene	11	1.0	10.00	0	106	75	124				
trans-1,3-Dichloropropene	11	1.0	10.00	0	108	73	127				
Trichloroethene	10	1.0	10.00	0	104	79	123				
Trichlorofluoromethane [Freon-11]	12	1.0	10.00	0	120	65	141				
Vinyl acetate	11	5.0	10.00	0	108	54	146				
Vinyl chloride	12	1.0	10.00	0	125	58	137				
Xylene (total)	30	3.0	30.00	0	99.2	79	121				
Surr: 4-Bromofluorobenzene	60		60.00		99.2	85	114				
Surr: Dibromofluoromethane	52		60.00		87.0	80	119				
Surr: Toluene-d8	60		60.00		99.5	89	112				

Sample ID: **VOA10 LCSD 06301** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **6/30/2016** RunNo: **87063**

Client ID: **LCSS02** Batch ID: **R87063** TestNo: **SW8260B** Analysis Date: **6/30/2016** SeqNo: **1688908**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.4	1.0	10.00	0	94.0	78	124	10.52	11.2	25	
1,1,1-Trichloroethane	9.0	1.0	10.00	0	90.2	74	131	9.920	9.50	25	
1,1,2,2-Tetrachloroethane	9.7	1.0	10.00	0	97.0	71	121	9.970	2.75	25	
1,1,2-Trichloroethane	10	1.0	10.00	0	103	80	119	10.96	5.82	25	
1,1-Dichloroethane	9.6	2.0	10.00	0	95.7	77	125	9.830	2.68	25	
1,1-Dichloroethene	9.0	1.0	10.00	0	89.9	71	131	10.08	11.4	25	
1,2,3-Trichloropropane	9.2	1.0	10.00	0	92.2	73	122	9.470	2.68	25	
1,2-Dibromo-3-chloropropane	6.7	5.0	10.00	0	67.3	62	128	8.180	19.5	25	Y
1,2-Dibromoethane	11	1.0	10.00	0	107	77	121	10.94	2.41	25	
1,2-Dichloroethane	9.9	1.0	10.00	0	99.0	73	128	10.72	7.95	25	
1,2-Dichloropropane	11	1.0	10.00	0	108	78	122	10.95	1.19	25	
2-Butanone [MEK]	11	10	10.00	0	109	56	143	10.24	6.52	25	
2-Hexanone	11	2.0	10.00	0	110	57	139	10.33	6.01	25	
Acetone	11	10	10.00	0	111	39	160	10.45	6.30	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87063

Sample ID:	VOA10 LCSD 06301	Samp Type:	LCSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/30/2016	RunNo:	87063
Client ID:	LCSS02	Batch ID:	R87063	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688908

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	9.0	1.0	10.00	0	89.7	79	120	9.690	7.72	25	
Bromodichloromethane	11	1.0	10.00	0	108	79	125	11.53	6.72	25	Y
Bromoform	7.4	1.0	10.00	0	74.1	66	130	7.730	4.23	25	
Carbon disulfide	8.6	1.0	10.00	0	86.1	64	133	9.590	10.8	25	
Carbon tetrachloride	9.3	1.0	10.00	0	93.1	72	136	10.17	8.83	25	
Chlorobenzene	9.1	1.0	10.00	0	91.0	82	118	9.710	6.49	25	
Chlorodibromomethane	11	1.0	10.00	0	112	74	126	10.59	5.78	25	Y
Chloroethane	11	2.0	10.00	0	112	60	138	11.65	3.67	25	
Chloroform	9.3	1.0	10.00	0	93.3	79	124	10.16	8.52	25	
Chloromethane	11	1.0	10.00	0	111	50	139	12.52	12.4	25	
cis-1,2-Dichloroethene	9.7	1.0	10.00	0	97.2	78	123	10.53	8.00	25	
cis-1,3-Dichloropropene	9.4	1.0	10.00	0	94.5	75	124	9.940	5.05	25	
Dichlorodifluoromethane [Freon-12]	11	1.0	10.00	0	108	32	152	11.49	6.19	25	
Ethylbenzene	9.0	1.0	10.00	0	89.6	79	121	9.640	7.31	25	
Methylene chloride	13	5.0	10.00	0	128	74	124	13.32	4.37	25	Q
Styrene	9.4	1.0	10.00	0	94.3	78	123	10.13	7.16	25	
Tetrachloroethene	9.3	1.0	10.00	0	93.4	74	129	10.22	9.00	25	
Toluene	11	1.0	10.00	0	107	80	121	11.86	10.7	25	
trans-1,2-Dichloroethene	9.8	1.0	10.00	0	97.5	75	124	10.65	8.82	25	
trans-1,3-Dichloropropene	10	1.0	10.00	0	101	73	127	10.82	6.78	25	
Trichloroethene	9.7	1.0	10.00	0	97.0	79	123	10.40	6.97	25	
Trichlorofluoromethane [Freon-11]	11	1.0	10.00	0	109	65	141	12.05	9.93	25	
Vinyl acetate	11	5.0	10.00	0	106	54	146	10.85	2.61	0	
Vinyl chloride	11	1.0	10.00	0	111	58	137	12.45	11.3	25	
Xylene (total)	27	3.0	30.00	0	91.5	79	121	29.77	8.15	25	
Surr: 4-Bromofluorobenzene	61		60.00		101	85	114		0	25	
Surr: Dibromofluoromethane	51		60.00		85.4	80	119		0	25	
Surr: Toluene-d8	60		60.00		99.5	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87063

Sample ID:	VOA10 MBLK 06301	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/30/2016	RunNo:	87063
Client ID:	PBW	Batch ID:	R87063	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688910

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	10	10									U
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									UY
Bromoform	1.0	1.0									U
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									UY
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	5.0	5.0									U
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87063

Sample ID:	VOA10 MBLK 06301	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	6/30/2016	RunNo:	87063
Client ID:	PBW	Batch ID:	R87063	TestNo:	SW8260B			Analysis Date:	6/30/2016	SeqNo:	1688910

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	47		50.00		94.1	85	114				
Surr: Dibromofluoromethane	42		50.00		83.7	80	119				
Surr: Toluene-d8	47		50.00		93.1	89	112				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87322

Sample ID:	VOA11B LCS 07121	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87322
Client ID:	LCSW	Batch ID:	R87322	TestNo:	SW8260B			Analysis Date:	7/12/2016	SeqNo:	1694806

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.0	1.0	10.00	0	80.1	78	124				
1,1,1-Trichloroethane	9.1	1.0	10.00	0	90.8	74	131				
1,1,2,2-Tetrachloroethane	10	1.0	10.00	0	101	71	121				
1,1,2-Trichloroethane	9.6	1.0	10.00	0	96.5	80	119				
1,1-Dichloroethane	9.6	2.0	10.00	0	95.5	77	125				
1,1-Dichloroethene	9.5	1.0	10.00	0	95.3	71	131				
1,2,3-Trichloropropane	8.6	1.0	10.00	0	86.4	73	122				
1,2-Dibromo-3-chloropropane	8.6	5.0	10.00	0	86.0	62	128				Z
1,2-Dibromoethane	10	1.0	10.00	0	101	77	121				
1,2-Dichloroethane	9.9	1.0	10.00	0	99.0	73	128				
1,2-Dichloropropane	9.2	1.0	10.00	0	91.5	78	122				
2-Butanone [MEK]	11	10	10.00	0	107	56	143				
2-Hexanone	8.6	2.0	10.00	0	85.6	57	139				
Acetone	12	10	10.00	0	115	39	160				
Benzene	9.5	1.0	10.00	0	94.9	79	120				
Bromodichloromethane	7.8	1.0	10.00	0	77.9	79	125				Q
Bromoform	6.7	1.0	10.00	0	67.2	66	130				Z
Carbon disulfide	9.1	1.0	10.00	0	91.0	64	133				
Carbon tetrachloride	9.7	1.0	10.00	0	97.3	72	136				
Chlorobenzene	9.7	1.0	10.00	0	96.9	82	118				
Chlorodibromomethane	7.1	1.0	10.00	0	70.9	74	126				Q
Chloroethane	9.4	2.0	10.00	0	94.4	60	138				
Chloroform	9.6	1.0	10.00	0	96.5	79	124				
Chloromethane	9.7	1.0	10.00	0	96.7	50	139				
cis-1,2-Dichloroethene	9.4	1.0	10.00	0	94.4	78	123				
cis-1,3-Dichloropropene	7.6	1.0	10.00	0	76.2	75	124				
Dichlorodifluoromethane [Freon-12]	11	1.0	10.00	0	107	32	152				
Ethylbenzene	9.3	1.0	10.00	0	93.0	79	121				
Methylene chloride	10	5.0	10.00	0	103	74	124				
Styrene	7.5	1.0	10.00	0	74.8	78	123				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87322

Sample ID: **VOA11B LCS 07121** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/12/2016** RunNo: **87322**

Client ID: **LCSW** Batch ID: **R87322** TestNo: **SW8260B** Analysis Date: **7/12/2016** SeqNo: **1694806**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	9.5	1.0	10.00	0	95.4	74	129				
Toluene	9.1	1.0	10.00	0	91.0	80	121				
trans-1,2-Dichloroethene	9.9	1.0	10.00	0	98.7	75	124				
trans-1,3-Dichloropropene	9.5	1.0	10.00	0	94.9	73	127				Z
Trichloroethene	9.9	1.0	10.00	0	98.7	79	123				
Trichlorofluoromethane [Freon-11]	9.9	1.0	10.00	0	98.9	65	141				
Vinyl acetate	9.3	5.0	10.00	0	93.1	54	146				
Vinyl chloride	10	1.0	10.00	0	99.7	58	137				
Xylene (total)	27	3.0	30.00	0	90.3	79	121				
Surr: 4-Bromofluorobenzene	58		60.00		96.5	85	114				
Surr: Dibromofluoromethane	57		60.00		95.8	80	119				
Surr: Toluene-d8	56		60.00		93.2	89	112				

Sample ID: **VOA11B MBLK 0712** Samp Type: **MBLK** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/12/2016** RunNo: **87322**

Client ID: **PBW** Batch ID: **R87322** TestNo: **SW8260B** Analysis Date: **7/12/2016** SeqNo: **1694808**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UZ
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	2.0	10									J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87322

Sample ID:	VOA11B MBLK 0712	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87322
Client ID:	PBW	Batch ID:	R87322	TestNo:	SW8260B			Analysis Date:	7/12/2016	SeqNo:	1694808

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									UZ
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	0.48	5.0									J
Styrene	1.0	1.0									U
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									UZ
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	45		50.00		89.8	85	114				
Surr: Dibromofluoromethane	48		50.00		95.1	80	119				
Surr: Toluene-d8	45		50.00		89.4	89	112				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87322

Sample ID:	1606675-014AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/12/2016	RunNo:	87322
Client ID:	WDS-SB07-GWMS1	Batch ID:	R87322	TestNo:	SW8260B			Analysis Date:	7/12/2016	SeqNo:	1694818

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	41	5.0	50.00	0	81.4	78	124				H
1,1,1-Trichloroethane	48	5.0	50.00	0	95.0	74	131				H
1,1,2,2-Tetrachloroethane	51	5.0	50.00	0	102	71	121				H
1,1,2-Trichloroethane	50	5.0	50.00	0	99.4	80	119				H
1,1-Dichloroethane	51	10	50.00	0	103	77	125				H
1,1-Dichloroethene	50	5.0	50.00	0	99.1	71	131				H
1,2,3-Trichloropropane	48	5.0	50.00	0	95.9	73	122				H
1,2-Dibromo-3-chloropropane	38	25	50.00	0	76.6	62	128				ZH
1,2-Dibromoethane	50	5.0	50.00	0	99.8	77	121				H
1,2-Dichloroethane	52	5.0	50.00	0	103	73	128				H
1,2-Dichloropropane	50	5.0	50.00	0	99.7	78	122				H
2-Butanone [MEK]	57	50	50.00	0	113	56	143				H
2-Hexanone	43	10	50.00	0	86.5	57	139				H
Acetone	65	50	50.00	0	130	39	160				H
Benzene	51	5.0	50.00	0	103	79	120				H
Bromodichloromethane	39	5.0	50.00	0	78.7	79	125				QH
Bromoform	32	5.0	50.00	0	64.2	66	130				QZH
Carbon disulfide	47	5.0	50.00	0	94.7	64	133				H
Carbon tetrachloride	50	5.0	50.00	0	101	72	136				H
Chlorobenzene	49	5.0	50.00	0	98.5	82	118				H
Chlorodibromomethane	37	5.0	50.00	0	73.4	74	126				QH
Chloroethane	55	10	50.00	0	110	60	138				H
Chloroform	50	5.0	50.00	0	99.1	79	124				H
Chloromethane	50	5.0	50.00	0	99.6	50	139				H
cis-1,2-Dichloroethene	50	5.0	50.00	0	99.9	78	123				H
cis-1,3-Dichloropropene	37	5.0	50.00	0	74.2	75	124				QH
Dichlorodifluoromethane [Freon-12]	54	5.0	50.00	0	108	32	152				H
Ethylbenzene	48	5.0	50.00	0	96.5	79	121				H
Methylene chloride	56	25	50.00	3.350	105	74	124				H
Styrene	37	5.0	50.00	0	74.1	78	123				QH

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87322

Sample ID: **1606675-014AMS** Samp Type: **MS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/12/2016** RunNo: **87322**

Client ID: **WDS-SB07-GWMS1** Batch ID: **R87322** TestNo: **SW8260B** Analysis Date: **7/12/2016** SeqNo: **1694818**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	49	5.0	50.00	0	98.8	74	129				H
Toluene	48	5.0	50.00	0	96.2	80	121				H
trans-1,2-Dichloroethene	53	5.0	50.00	0	106	75	124				H
trans-1,3-Dichloropropene	46	5.0	50.00	0	92.2	73	127				ZH
Trichloroethene	49	5.0	50.00	0	97.4	79	123				H
Trichlorofluoromethane [Freon-11]	52	5.0	50.00	0	105	65	141				H
Vinyl acetate	53	25	50.00	0	107	54	146				H
Vinyl chloride	55	5.0	50.00	0	109	58	137				H
Xylene (total)	140	15	150.0	0	92.4	79	121				H
Surr: 4-Bromofluorobenzene	290		300.0		96.9	85	114				H
Surr: Dibromofluoromethane	300		300.0		99.2	80	119				H
Surr: Toluene-d8	290		300.0		95.1	89	112				H

Sample ID: **1606675-014AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/12/2016** RunNo: **87322**

Client ID: **WDS-SB07-GWSD1** Batch ID: **R87322** TestNo: **SW8260B** Analysis Date: **7/12/2016** SeqNo: **1694819**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	41	5.0	50.00	0	81.1	78	124	40.70	0.369	25	H
1,1,1-Trichloroethane	47	5.0	50.00	0	94.7	74	131	47.50	0.316	25	H
1,1,2,2-Tetrachloroethane	50	5.0	50.00	0	99.6	71	121	51.05	2.48	25	H
1,1,2-Trichloroethane	50	5.0	50.00	0	101	80	119	49.70	1.60	25	H
1,1-Dichloroethane	50	10	50.00	0	100	77	125	51.35	2.56	25	H
1,1-Dichloroethene	49	5.0	50.00	0	97.7	71	131	49.55	1.42	25	H
1,2,3-Trichloropropane	40	5.0	50.00	0	80.1	73	122	47.95	18.0	25	H
1,2-Dibromo-3-chloropropane	42	25	50.00	0	83.6	62	128	38.30	8.74	25	ZH
1,2-Dibromoethane	52	5.0	50.00	0	103	77	121	49.90	3.45	25	H
1,2-Dichloroethane	53	5.0	50.00	0	106	73	128	51.70	2.11	25	H
1,2-Dichloropropane	48	5.0	50.00	0	96.9	78	122	49.85	2.85	25	H
2-Butanone [MEK]	55	50	50.00	0	110	56	143	56.65	2.50	25	H
2-Hexanone	46	10	50.00	0	92.6	57	139	43.25	6.81	25	H
Acetone	62	50	50.00	0	124	39	160	64.75	4.02	25	H

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87322

Sample ID: **1606675-014AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/12/2016** RunNo: **87322**

Client ID: **WDS-SB07-GWSD1** Batch ID: **R87322** TestNo: **SW8260B** Analysis Date: **7/12/2016** SeqNo: **1694819**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	50	5.0	50.00	0	100	79	120	51.40	2.56	25	H
Bromodichloromethane	39	5.0	50.00	0	77.9	79	125	39.35	1.02	25	QH
Bromoform	33	5.0	50.00	0	66.7	66	130	32.10	3.82	25	ZH
Carbon disulfide	46	5.0	50.00	0	91.3	64	133	47.35	3.66	25	H
Carbon tetrachloride	49	5.0	50.00	0	97.8	72	136	50.35	2.92	25	H
Chlorobenzene	49	5.0	50.00	0	97.2	82	118	49.25	1.33	25	H
Chlorodibromomethane	36	5.0	50.00	0	72.6	74	126	36.70	1.10	25	QH
Chloroethane	52	10	50.00	0	104	60	138	54.75	5.06	25	H
Chloroform	50	5.0	50.00	0	99.0	79	124	49.55	0.101	25	H
Chloromethane	50	5.0	50.00	0	101	50	139	49.80	1.20	25	H
cis-1,2-Dichloroethene	49	5.0	50.00	0	98.9	78	123	49.95	1.01	25	H
cis-1,3-Dichloropropene	37	5.0	50.00	0	73.2	75	124	37.10	1.36	25	QH
Dichlorodifluoromethane [Freon-12]	52	5.0	50.00	0	104	32	152	54.05	4.35	25	H
Ethylbenzene	47	5.0	50.00	0	93.1	79	121	48.25	3.59	25	H
Methylene chloride	54	25	50.00	3.350	102	74	124	56.00	2.99	25	H
Styrene	38	5.0	50.00	0	75.1	78	123	37.05	1.34	25	QH
Tetrachloroethene	48	5.0	50.00	0	96.7	74	129	49.40	2.15	25	H
Toluene	47	5.0	50.00	0	94.7	80	121	48.10	1.57	25	H
trans-1,2-Dichloroethene	49	5.0	50.00	0	98.5	75	124	53.05	7.43	25	H
trans-1,3-Dichloropropene	46	5.0	50.00	0	92.4	73	127	46.10	0.217	25	ZH
Trichloroethene	49	5.0	50.00	0	97.1	79	123	48.70	0.308	25	H
Trichlorofluoromethane [Freon-11]	50	5.0	50.00	0	100	65	141	52.50	4.48	25	H
Vinyl acetate	54	25	50.00	0	108	54	146	53.45	1.12	25	H
Vinyl chloride	54	5.0	50.00	0	108	58	137	54.55	0.644	25	H
Xylene (total)	140	15	150.0	0	90.9	79	121	138.6	1.60	25	H
Surr: 4-Bromofluorobenzene	290		300.0		95.8	85	114		0	25	H
Surr: Dibromofluoromethane	300		300.0		98.5	80	119		0	25	H
Surr: Toluene-d8	280		300.0		94.3	89	112		0	25	H

RTI Laboratories - Definitions and Acronyms

WO#: 1606675

Date Reported: 8/16/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

160675

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-01
Batch May16

Database Information | Other Sample Information | Analysis

	LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1	WDS-SB11	-	-	N	1	WDS-SB11-GW	6/17/16	1330	WG	10	062	3			4			2	1			1
2	WDS-SB06	-	-	N	1	WDS-SB06-GW	6/17/16	1420	WG	3	062	3			4			2	1			2
3	WDS-SB09	-	-	N	1	WDS-SB09-GW	6/17/16	1115	WG	3	062	3			2			1	1			3
4	H16-SB01	-	-	N	1	H16-SB01-GW	6/19/16	1445	WG	3	062	3			4			2	1			Note Diff.
5	H21-SB03	-	-	N	1	H21-SB03-GW	6/19/16	1400	WG	3	062	3			4			2	1			Sampling Dat
6	H21-SB02	-	-	N	1	H21-SB02-GW	6/19/16	1000	WG	3	062	3			4			2	1			6
7	MP-SB02	-	-	N	1	MP-SB02-GW	6/19/16	0815	WG	3	062	3	x3	x3	4	x3					2	7
8	Field QC	-	-	TB	1	TB-GW-061716-01	6/17/16	0820	WQ	3	062	3										8
9	Field QC	-	-	TB	1	TB-GW-061916-01	6/19/16	0800	WQ	3	062	3										TRIP BLANK

GW

		Date	Time		Date	Time
1.	Relinquished By / Company	6/20/16	1100	1. Received By / Company XFER TO FEDEX	6/20/16	1100
2.	Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3.	Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8105 0202 5453

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

~~MP-SB02 - Star VOC, SVOC list per sample plan~~ n/a RD2, that is for soil only. 6/23/16

AD 1.4 N. Hilton rec'd @ 7.2°C

RIA RI... KL

1606675

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-09
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
Field QC	-	-	TB	1	TB-GW-061916-02	6/19/16	0810	WQ	3	070	3										TRIP BLANK
Field QC	-	-	TB	1	TB-GW-062016-01	6/20/16	0800	WQ	3	070	3										TRIP BLANK
203-SB01	-	-	N	1	203-SB01-GW	6/20/16	1115	WG	10	070	3			4			2	1			10
H21-SB01	-	-	N	1	H21-SB01-GW	6/19/16	1230	WG	3	070	3			4			2	1			13
WDS-SB07	-	-	N	1	WDS-SB07-GW	6/19/16	1115	WG	3	070	3			2			1	1			14
																					Note Different Sample Date

	Date	Time		Date	Time
1. Relinquished By / Company	6/20/16	1500	1. Received By / Company	Fed Ex to fedex	
2. Relinquished By / Company	Date	Time	2. Received By / Company		Date / Time: 6/20/16 1500
3. Relinquished By / Company	Date	Time	3. Received By / Company		Date / Time: 6/21/16 1005

Comments

Shipment Method/Airbill No. 8103 0202 5409

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

1606675

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-03
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
034-SB01	-	-	N	1	034-SB01-GW	6/9/16	0947	WG	5	064						2	2	1			KG IS
WDS-SB09	-	-	N	1	WDS-SB09-GW	6/17/16	1145	WG	4	064				2			1	1			Only 2 amber for SVOC's & 1 for PCB's
																					Note Diff. Sampling Dates

	Date	Time		Date	Time
1. Relinquished By / Company	6/20/16	1100	1. Received By / Company: REFER TO FEDEX	6/20/16	1100
2. Relinquished By / Company	Date	Time	2. Received By / Company: Harding Lawson / RTI	6/21/16	1030
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 0262 5475

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLE

1606675

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-01
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	RNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB11	—	—	N	1	WDS-SB11-GW	6/17/16	1330	WG	10	062	3			4			2	1				
WDS-SB06	—	—	N	1	WDS-SB06-GW	6/17/16	1420	WG	3	062	3											
WDS-SB09	—	—	N	1	WDS-SB09-GW	6/17/16	1115	WG	3	062	3											
H16-SB01	—	—	N	1	H16-SB01-GW	6/19/16	1445	WG	3	062	3											Note Diff. Sampling Date
H21-SB03	—	—	N	1	H21-SB03-GW	6/19/16	1400	WG	3	062	3											
H21-SB02	—	—	N	1	H21-SB02-GW	6/19/16	1000	WG	3	062	3											
MP-SB02	—	—	N	1	MP-SB02-GW	6/19/16	0815	WG	3	062	3											
Field QC	—	—	TB	1	TB-GW-061716-01	6/17/16	0820	WQ	3	062	3											TRIP BLANK
Field QC	—	—	TB	1	TB-GW-061916-01	6/19/16	0800	WQ	3	062	3											

1. Relinquished By / Company		Date	Time	1. Received By / Company	XFER TO FEDEX	Date	Time
		6/20/16	1100			6/20/16	1100
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
						6/21/16	1205
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. 5103 0202 5453

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

1600625

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06 2016-02
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB06	-	-	N	1	WDS-SB06-GW	6/17/16	1420	WG	7	063				4			21					

1. Relinquished By / Company		Date	Time	1. Received By / Company	XFER TO FEDEX	Date	Time
		6/20/16	1100			6/24/16	1100
2. Relinquished By / Company		Date	Time	2. Received By / Company		Date	Time
						6/21/16	1035
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. 8105 0202 5464

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

1606675

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-03
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
034-SB01	-	-	N	1	034-SB01-GW	6/19/16	0947	WG	5	064						2	2	i				
WDS-SB09	-	-	N	1	WDS-SB09-GW	6/17/16	1145	WG	4	064				2			1	i				Only 2 ambers for SVOC's & 1 for PCB's
																						*Note Diff. Sampling Dates

	Date	Time		Date	Time
1. Relinquished By / Company	6/20/16	1100	1. Received By / Company XFER TO FEDEX	6/20/16	1100
2. Relinquished By / Company	Date	Time	2. Received By / Company Thornton Thompson / RTI	6/21/16	1035
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 0262 5475

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

1606675

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-04
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
H16-SB01	–	–	N	1	H16-SB01-GW	6/19/16	1445	WG	7	Q05				4			2	1				

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
[signature]	6/20/16	1100	XFER TO FEDEX	6/20/16	1100
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			[signature] KTI	6/21/16	102
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8105 0202 5486

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

1606075

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-05
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
H21-SB03	–	–	N	1	H21-SB03-GW	6/19/16	1400	WG	7	Cw				4			2	1				

1. Relinquished By / Company	Date 6/20/16	Time 1100	1. Received By / Company XPER TO FEDEX	Date 6/20/16	Time 1100
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date 6/21/16	Time 1012
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8109 0202 5497

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Amanda

1606675

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-06
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
H21-SB02	-	-	N	1	H21-SB02-GW	6/19/16	1000	WG	7	067				4			2	1				

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
[signature]	6/20/16	1100	REFER TO FEDEX	6/20/16	1100
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			[signature]	6/21/16	1025
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 8202 5431

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

BIG BLUE 15

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606075

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-08
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
MP-SB02	-	-	N	1	MP-SB02-GW	6/19/16	0815	WG	6	0.9				4						2	

1. Relinquished By / Company	Date 6/20/16	Time 1100	1. Received By / Company XFER TO FEDEX	Date 6/20/16	Time 1100
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8163 0202 5420

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

RTI 2.83
~~AECOM~~

160675

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-09
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
Field QC	-	-	TB	1	TB-GW-062016-02	6/19/16	0810	WQ	3	070	3											TRIP BLANK
Field QC	-	-	TB	1	TB-GW-062016-01	6/20/16	0800	WQ	3	070	3											
203-SB01	-	-	N	1	203-SB01-GW	6/20/16	1115	WG	10	070	3			4			2	1				
H21-SB01	-	-	N	1	H21-SB01-GW	6/19/16	1230	WG	3	070	3											
WDS-SB07	-	-	N	1	WDS-SB07-GW	6/19/16	1115	WG	3	070	3											
																						Note Different Sample Date

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
[signature]	6/20/16	1500	Keep to fedex	6/20/16	1500
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			[signature]	6/21/16	1005
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8163 0202 5409

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606675

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062016-10
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
WDS-SB07	-	-	N	1	WDS-SB07-GW	6/19/16	1115	WG	4	071				2			1	1				minimal volume
H21-SB01	-	-	N	1	H21-SB01-GW	6/19/16	1230	WG	4	071				4			2	1				

1. Relinquished By / Company	Date 6/20/16	Time 1500	1. Received By / Company	XPER TO FEDEX	Date 6/20/16	Time 1500
2. Relinquished By / Company	Date	Time	2. Received By / Company		Date 6/20/16	Time 1025
3. Relinquished By / Company	Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5410

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

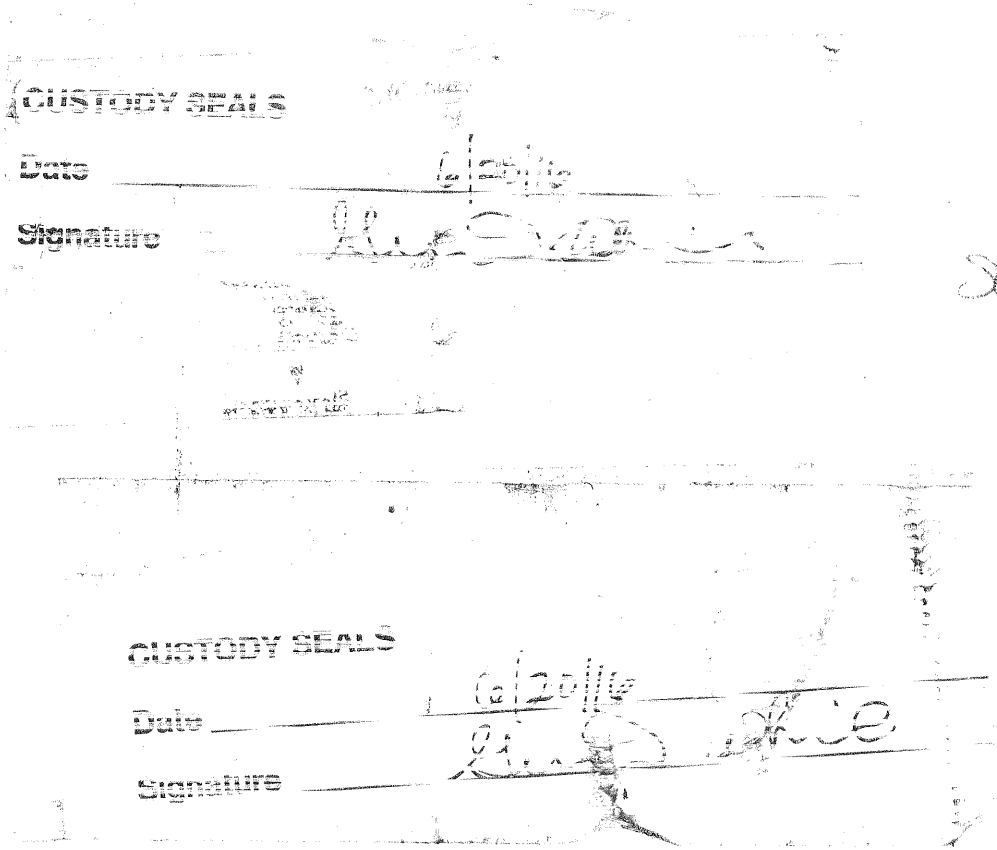
AECOM3

Big Blue 14
Cooler # 060
temp Range 1.8 - 7.2
Please note all bottles
but one were 1.8 - 5.6°c

FedEx
TRK# 0215 8103 0202 5453
TUE - 21 JUN AA
STANDARD OVERNIGHT
48150
MI-US
DTW
ET CFAA
559C2/30BD/6A08

CUSTODY SEALS
Date 6/25/16
Signature

6/25/16



Cooler # 0k3
Cooler ID: AECOM 1
Sample Temp: 3.6-5.0°C

FedEx
Print
0Z15 8103 0202 5464

TUE - 21 JUN AA
STANDARD OVERNIGHT

ET CFAA

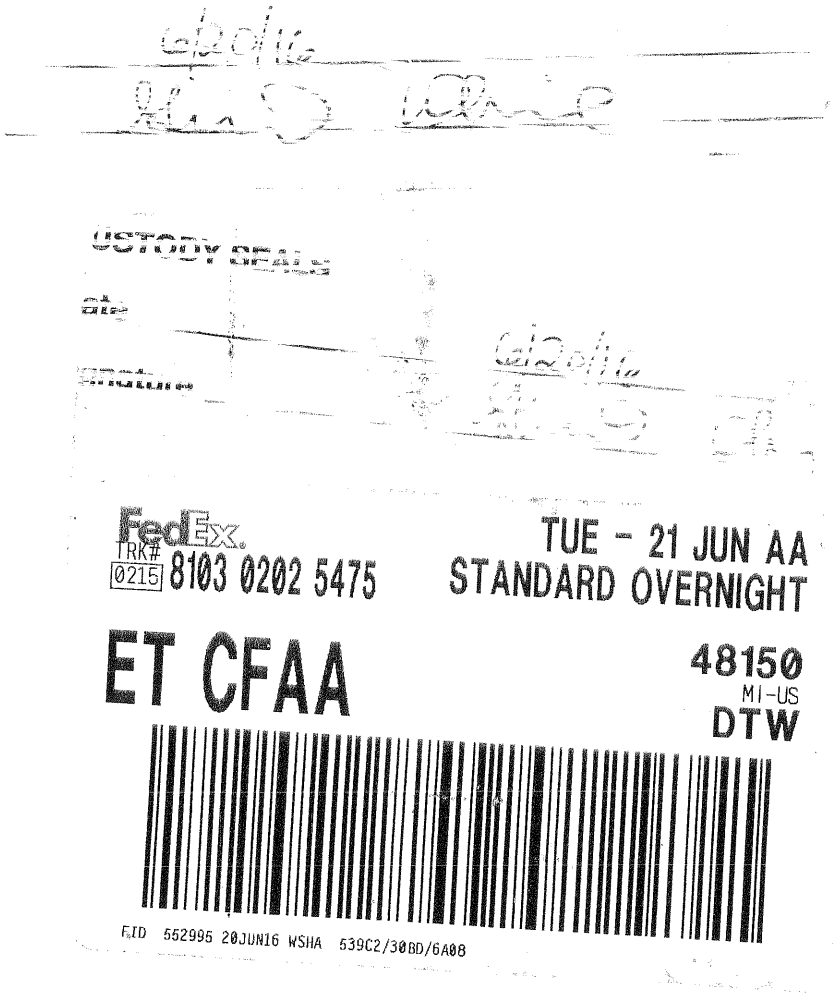
48150
MI-US
DTW

FID 552995 20JUN16 WSHA 539C2/30BD/6A08

Cooler ID:
AECOM 2

Cooler #
069

Sample temp Range
2.6 - 6.0°C



Cooler #005

Cooler ID: Blue Two

Temp Range 3.4-7.2°C

Note: 2 Bottles recd of over 6
- metals H16-5801-GW → 7.2°C
- 1 Amber H16-5801-GW → 6.2°C → will flag as extra not to be used

All other bottles 3.4→5.8°C

CUSTODY SEALS

Date

Signature

TUE - 21 JUN AA
STANDARD OVERNIGHT

TRK# 7703 0202 5486

48150
MI-US
DTW

CFAA

FID 552995 20JUN16 WSHA 539C2/30BD/6A08

Cooler ID: AECOM 4

Cooler # 066

Sample Temp 1.8-5.6°C

FedEx.
TRK# 0215 8103 0202 5497

TUE - 21 JUN AA
STANDARD OVERNIGHT

48150
MI-US
DTW

ET CFAA

CUSTODY SEALS

Date

Signature

CUSTODY SEALS

Date

Signature

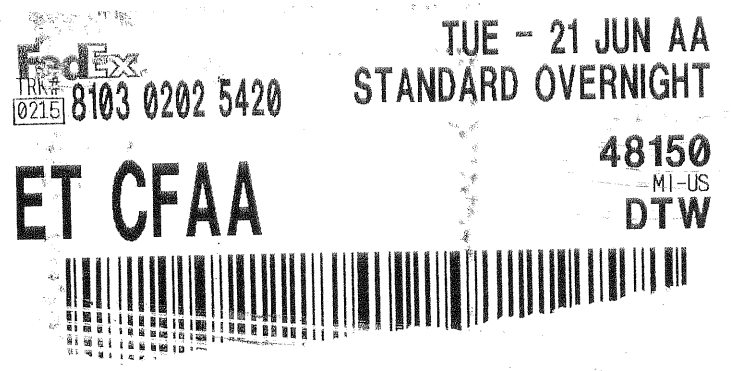
SEALS

Cooler #067
Cooler ID: BigBlu 15
Sample Temp Range: 2.2-5.2°C

Cooler #009

Cooler ID: RT 2 of 3

Sample Temp ~~3.2~~ KG
3.6 - 5.2°C



6/20/19

Cooler #070
Cooler ID AECOM 5
Temp Range: 0.2→6.0°C

FedEx
TRK# 0215 8103 0202 5410

TUE - 21 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 479551 20JUN16 WSHA 539C2/30BD/6A08

Cooler ID: Accom3
Cooler #: 071
Sample temp Range 2.6° - 6.0°C
4.2 KS

EALS

EALS

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero - B113

Work Order #: 1606829

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606829-001A	B113-LC02-01		6/21/2016 2:00 PM	6/23/2016 10:00 AM	Liquid
1606829-001B	B113-LC02-01		6/21/2016 2:00 PM	6/23/2016 10:00 AM	Liquid

RTI Laboratories - Case Narrative

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Ignitability - SW1010
- Metals, ICP/OES - SW6010C
- Reactivity, Cyanide - SW7.3.3.2
- Reactivity, Sulfide - SW7.3.4.2
- Mercury - SW7470A
- Volatile Organic Compounds - SW8260C
- Semi-Volatile Organic Compounds - SW8270D
- Solid pH Measured in Water at Reported Temperature - SW9045D

Analytical Comments for Test SW_7.3.3.2, Analytical RunNo 87203, Batch ID 40367:
- Sample LCS-40367: Recovery for Reactive Cyanide exceeded control limits.
- Sample LCSD-40367: Recovery for Reactive Cyanide exceeded control limits.

Analytical Comments for Test SW_7.3.4.2, Analytical RunNo 87366, Batch ID 40367:
- Sample LCS-R87366: Recovery for Reactive Sulfide exceeded control limits.
- Sample 1606829-001BMS: Recovery for Reactive Sulfide exceeded control limits.
- Sample 1606829-001BMSD: Recovery for Reactive Sulfide exceeded control limits.

Analytical Comments for Test SW_7.3.4.2, Analytical RunNo 87366, Batch ID R87366:
- Sample LCS-R87366: Recovery for Reactive Sulfide exceeded control limits.

Analytical Comments for Test SW_8270A, Analytical RunNo 87051, Batch ID 40283:
- Sample LCSD-40283: LCSD results for Pentachlorophenol exceeded control limit.

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/21/2016 2:00:00 PM
Project: Camp Hero - B113
Lab ID: 1606829-001 **Matrix:** Liquid
Client Sample ID: B113-LC02-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Reactivity, Corrosivity, Ignitability Reactivity, Cyanide			**Method: SW7.3.3.2**					**Analyst: EL**
Cyanide, Reactive	0.050	UQ	0.050	0.050	0.050	mg/Kg	1	7/7/2016 4:14 PM
TCLP: RCRA Metals, VOCs, SVOCs Metals, ICP/OES			**Method: SW6010C**		**SW3020A**			**Analyst: BSK**
Arsenic	10	J	7.3	20	40	µg/L	1	6/27/2016 3:42 PM
Barium	120	J	72	100	200	µg/L	1	6/27/2016 3:42 PM
Cadmium	1.0	U	0.67	1.0	5.0	µg/L	1	6/27/2016 3:42 PM
Chromium	8.0	U	1.8	8.0	10	µg/L	1	6/27/2016 3:42 PM
Lead	20	U	12	20	100	µg/L	1	6/27/2016 3:42 PM
Selenium	30	U	24	30	40	µg/L	1	6/27/2016 3:42 PM
Silver	10	U	5.1	10	20	µg/L	1	6/27/2016 3:42 PM
TCLP: RCRA Metals, VOCs, SVOCs Mercury			**Method: SW7470A**		**SW7470**			**Analyst: NK**
Mercury	0.10	U	0.052	0.10	0.20	µg/L	1	6/28/2016 12:13 PM
TCLP: RCRA Metals, VOCs, SVOCs Semi-Volatile Organic Compounds			**Method: SW8270D**		**SW3510C**			**Analyst: KAL**
2,4,5-Trichlorophenol	7.5	U	4.0	7.5	75	µg/L	3	6/29/2016 11:40 PM
2,4,6-Trichlorophenol	7.5	U	4.4	7.5	60	µg/L	3	6/29/2016 11:40 PM
2,4-Dinitrotoluene	7.5	U	3.8	7.5	75	µg/L	3	6/29/2016 11:40 PM
2-Methylphenol	7.5	U	2.9	7.5	75	µg/L	3	6/29/2016 11:40 PM
3/4 Methylphenol	15	U	5.8	15	150	µg/L	3	6/29/2016 11:40 PM
Hexachlorobenzene	7.5	U	3.8	7.5	15	µg/L	3	6/29/2016 11:40 PM
Hexachlorobutadiene	7.5	U	4.7	7.5	15	µg/L	3	6/29/2016 11:40 PM
Hexachloroethane	7.5	U	3.5	7.5	75	µg/L	3	6/29/2016 11:40 PM
Nitrobenzene	7.5	U	3.9	7.5	45	µg/L	3	6/29/2016 11:40 PM
Pentachlorophenol	38	UQ	25	38	75	µg/L	3	6/29/2016 11:40 PM
Pyridine	38	U	15	38	150	µg/L	3	6/29/2016 11:40 PM
Surr: 2,4,6-Tribromophenol	96.1	J		43-140		%Rec	3	6/29/2016 11:40 PM
Surr: 2-Fluorobiphenyl	85.8			44-119		%Rec	3	6/29/2016 11:40 PM
Surr: 2-Fluorophenol	62.0	J		19-119		%Rec	3	6/29/2016 11:40 PM
Surr: Nitrobenzene-d5	72.1			44-120		%Rec	3	6/29/2016 11:40 PM
Surr: Phenol-d5	66.2	J		30-130		%Rec	3	6/29/2016 11:40 PM
Surr: Terphenyl-d14	107			50-134		%Rec	3	6/29/2016 11:40 PM
TCLP: RCRA Metals, VOCs, SVOCs Volatile Organic Compounds			**Method: SW8260C**		**SW1311B**			**Analyst: AS1**
1,1-Dichloroethene	120	U	96	120	200	µg/L	200	7/1/2016 4:16 PM
1,2-Dichloroethane	120	U	56	120	200	µg/L	200	7/1/2016 4:16 PM
1,4-Dichlorobenzene	120	U	96	120	200	µg/L	200	7/1/2016 4:16 PM
Benzene	120	U	77	120	200	µg/L	200	7/1/2016 4:16 PM
Carbon tetrachloride	120	U	78	120	200	µg/L	200	7/1/2016 4:16 PM
Chlorobenzene	120	U	94	120	200	µg/L	200	7/1/2016 4:16 PM
Chloroform	120	U	92	120	200	µg/L	200	7/1/2016 4:16 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 2:00:00 PM
Project:	Camp Hero - B113		
Lab ID:	1606829-001	**Matrix:**	Liquid
Client Sample ID:	B113-LC02-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Methyl ethyl ketone	1,000	U	450	1,000	2,000	µg/L	200	7/1/2016 4:16 PM
Tetrachloroethene	120	U	110	120	200	µg/L	200	7/1/2016 4:16 PM
Trichloroethene	120	U	96	120	200	µg/L	200	7/1/2016 4:16 PM
Vinyl chloride	120	U	100	120	200	µg/L	200	7/1/2016 4:16 PM
Surr: 4-Bromofluorobenzene	92.8			85-114		%Rec	200	7/1/2016 4:16 PM
Surr: Dibromofluoromethane	94.8			80-119		%Rec	200	7/1/2016 4:16 PM
Surr: Toluene-d8	92.0			89-112		%Rec	200	7/1/2016 4:16 PM
Reactivity, Corrosivity, Ignitability Ignitability			**Method: SW1010**					**Analyst: EL**
Ignitability	70	U	70	70	70	°F	1	7/6/2016 4:00 PM
Reactivity, Corrosivity, Ignitability Reactivity, Sulfide			**Method: SW7.3.4.2**					**Analyst: STM**
Sulfide, Reactive	2.0	UX	2.0	2.0	2.0	mg/Kg	1	7/7/2016 9:15 AM
Reactivity, Corrosivity, Ignitability Solid pH Measured in Water at Reported Temperature			**Method: SW9045D**					**Analyst: STM**
Hydrogen Ion (pH)	8.25					pH Units	1	6/28/2016 1:05 PM

RTI Laboratories - DATES REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606829-001A	B113-LC02-01	6/21/2016 2:00 PM	Liquid				
				SW_7470A-Mercury	6/24/2016 1:43 PM	6/27/2016 8:02 AM	6/28/2016 12:13 PM
				SW_6010A-Metals, ICP/OES	6/24/2016 1:43 PM	6/27/2016 10:50 AM	6/27/2016 3:42 PM
				SW_8270A-Semi-Volatile Organic Compounds	6/24/2016 1:43 PM	6/28/2016 12:59 PM	6/29/2016 11:40 PM
				SW_8260A-Volatile Organic Compounds	6/24/2016 1:43 PM	6/24/2016 9:00 AM	7/1/2016 4:16 PM
1606829-001B	B113-LC02-01	6/21/2016 2:00 PM	Liquid				
				SW_1010-Ignitability		7/6/2016 4:00 PM	7/6/2016 4:00 PM
				SW_7.3.3.2-Reactivity, Cyanide		7/5/2016 9:45 AM	7/7/2016 4:14 PM
				SW_7.3.4.2-Reactivity, Sulfide		7/5/2016 9:45 AM	7/7/2016 9:15 AM
				SW_9045-Solid pH Measured in Water at Reported Temperature		6/28/2016 1:05 PM	6/28/2016 1:05 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113 **Batch ID: 40261**

Sample ID:	MB-40261	Samp Type:	MBLK	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86987
Client ID:	PBW	Batch ID:	40261	TestNo:	SW7470A	SW7470		Analysis Date:	6/28/2016	SeqNo:	1687750

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	0.20	0.20									U

Sample ID:	LCS-40261	Samp Type:	LCS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86987
Client ID:	LCSW	Batch ID:	40261	TestNo:	SW7470A	SW7470		Analysis Date:	6/28/2016	SeqNo:	1687751

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	1.0	0.20	1.000	0	100	82	119				

Sample ID:	1606451-025AMS	Samp Type:	MS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86987
Client ID:	ZZZZZZ	Batch ID:	40261	TestNo:	SW7470A	SW7470		Analysis Date:	6/28/2016	SeqNo:	1687753

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	0.96	0.20	1.000	0	95.6	82	119				

Sample ID:	1606451-025AMSD	Samp Type:	MSD	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	86987
Client ID:	ZZZZZZ	Batch ID:	40261	TestNo:	SW7470A	SW7470		Analysis Date:	6/28/2016	SeqNo:	1687754

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	0.97	0.20	1.000	0	96.7	82	119	0.9560	1.14	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113 **Batch ID: 40268**

Sample ID:	**MB-40268**	Samp Type:	**MBLK**	Test Code:	**SW_6010A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86970**
Client ID:	**PBW**	Batch ID:	**40268**	TestNo:	**SW6010B**	**SW3020A**		Analysis Date:	**6/27/2016**	SeqNo:	**1687488**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	40	40									U
Barium	200	200									U
Cadmium	5.0	5.0									U
Chromium	10	10									U
Lead	100	100									U
Selenium	40	40									U
Silver	20	20									U

Sample ID:	**LCS-40268**	Samp Type:	**LCS**	Test Code:	**SW_6010A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86970**
Client ID:	**LCSW**	Batch ID:	**40268**	TestNo:	**SW6010B**	**SW3020A**		Analysis Date:	**6/27/2016**	SeqNo:	**1687489**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	480	40	500.0	0	96.2	87	113				
Barium	500	200	500.0	0	99.7	88	113				
Cadmium	500	5.0	500.0	0	99.5	88	113				
Chromium	510	10	500.0	0	103	90	113				
Lead	520	100	500.0	0	104	86	113				
Selenium	490	40	500.0	0	98.4	83	114				
Silver	500	20	500.0	0	100	84	115				

Sample ID:	**1605808-005DMS**	Samp Type:	**MS**	Test Code:	**SW_6010A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86970**
Client ID:	**ZZZZZZ**	Batch ID:	**40268**	TestNo:	**SW6010B**	**SW3020A**		Analysis Date:	**6/27/2016**	SeqNo:	**1687491**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	510	40	500.0	0	101	87	113				
Barium	570	200	500.0	0	114	88	113				Q
Cadmium	510	5.0	500.0	0	102	88	113				
Chromium	530	10	500.0	3.569	105	90	113				
Lead	520	100	500.0	0	104	86	113				
Selenium	520	40	500.0	0	104	83	114				
Silver	520	20	500.0	0	103	84	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113 **Batch ID: 40268**

Sample ID:	**1605808-005DMSD**	Samp Type:	**MSD**	Test Code:	**SW_6010A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**86970**
Client ID:	**ZZZZZZ**	Batch ID:	**40268**	TestNo:	**SW6010B**	**SW3020A**		Analysis Date:	**6/27/2016**	SeqNo:	**1687492**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	510	40	500.0	0	101	87	113	505.9	0.139	20	
Barium	570	200	500.0	0	114	88	113	567.8	0.0429	20	Q
Cadmium	500	5.0	500.0	0	100	88	113	508.9	1.36	20	
Chromium	520	10	500.0	3.569	102	90	113	530.7	2.82	20	
Lead	500	100	500.0	0	101	86	113	518.6	2.81	20	
Selenium	520	40	500.0	0	103	83	114	522.2	1.07	20	
Silver	510	20	500.0	0	103	84	115	517.3	0.785	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113 **Batch ID: 40283**

Sample ID: **MB- 40283** Samp Type: **MBLK** Test Code: **SW_8270A** Units: **µg/L** Prep Date: **6/29/2016** RunNo: **87051**

Client ID: **PBW** Batch ID: **40283** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/29/2016** SeqNo: **1688768**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	15	15									U
2,4,6-Trichlorophenol	12	12									U
2,4-Dinitrotoluene	15	15									U
2-Methylphenol	15	15									U
3/4 Methylphenol	30	30									U
Hexachlorobenzene	3.0	3.0									U
Hexachlorobutadiene	3.0	3.0									U
Hexachloroethane	15	15									U
Nitrobenzene	9.0	9.0									U
Pentachlorophenol	15	15									U
Pyridine	30	30									U
Surr: 2,4,6-Tribromophenol	20		25.00		81.1	43	140				J
Surr: 2-Fluorobiphenyl	17		25.00		66.8	44	119				
Surr: 2-Fluorophenol	13		25.00		53.5	19	119				J
Surr: Nitrobenzene-d5	15		25.00		60.6	44	120				
Surr: Phenol-d5	14		25.00		55.0	30	130				J
Surr: Terphenyl-d14	21		25.00		85.4	50	134				

Sample ID: **LCS-40283** Samp Type: **LCS** Test Code: **SW_8270A** Units: **µg/L** Prep Date: **6/28/2016** RunNo: **87051**

Client ID: **LCSW** Batch ID: **40283** TestNo: **SW8270C** **SW3510C** Analysis Date: **6/29/2016** SeqNo: **1688769**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	90	75	100.0	0	89.6	53	123				
2,4,6-Trichlorophenol	82	60	100.0	0	82.0	50	125				
2,4-Dinitrotoluene	100	75	100.0	0	105	57	128				
2-Methylphenol	82	75	100.0	0	82.5	30	117				
3/4 Methylphenol	150	150	200.0	0	76.4	25	120				
Hexachlorobenzene	81	15	100.0	0	80.6	53	125				
Hexachlorobutadiene	38	15	100.0	0	38.1	22	124				
Hexachloroethane	38	75	100.0	0	38.2	21	115				J
Nitrobenzene	67	45	100.0	0	66.6	45	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113 **Batch ID: 40283**

Sample ID:	**LCS-40283**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/28/2016**	RunNo:	**87051**
Client ID:	**LCSW**	Batch ID:	**40283**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/29/2016**	SeqNo:	**1688769**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	130	75	100.0	0	128	35	138				
Pyridine	59	150	100.0	0	59.0	50	130				J
Surr: 2,4,6-Tribromophenol	140		125.0		111	43	140				J
Surr: 2-Fluorobiphenyl	100		125.0		80.4	44	119				
Surr: 2-Fluorophenol	83		125.0		66.1	19	119				J
Surr: Nitrobenzene-d5	96		125.0		76.4	44	120				
Surr: Phenol-d5	90		125.0		72.2	30	130				J
Surr: Terphenyl-d14	120		125.0		98.5	50	134				

Sample ID:	**LCSD-40283**	Samp Type:	**LCSD**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/28/2016**	RunNo:	**87051**
Client ID:	**LCSS02**	Batch ID:	**40283**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/29/2016**	SeqNo:	**1688770**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	98	75	100.0	0	98.4	53	123	89.55	9.42	25	
2,4,6-Trichlorophenol	91	60	100.0	0	90.8	50	125	82.05	10.1	25	
2,4-Dinitrotoluene	110	75	100.0	0	112	57	128	104.6	7.19	25	
2-Methylphenol	92	75	100.0	0	91.5	30	117	82.50	10.3	25	
3/4 Methylphenol	160	150	200.0	0	81.9	25	120	152.7	7.01	25	
Hexachlorobenzene	86	15	100.0	0	85.8	53	125	80.55	6.31	25	
Hexachlorobutadiene	41	15	100.0	0	41.0	22	124	38.10	7.21	25	
Hexachloroethane	41	75	100.0	0	41.0	21	115	38.25	6.82	25	J
Nitrobenzene	71	45	100.0	0	70.7	45	121	66.60	5.90	25	
Pentachlorophenol	150	75	100.0	0	148	35	138	128.4	14.2	25	Q
Pyridine	64	150	100.0	0	64.2	50	130	58.95	8.53	25	J
Surr: 2,4,6-Tribromophenol	150		125.0		122	43	140		0	25	
Surr: 2-Fluorobiphenyl	100		125.0		84.0	44	119		0	25	
Surr: 2-Fluorophenol	86		125.0		69.1	19	119		0	25	J
Surr: Nitrobenzene-d5	100		125.0		80.5	44	120		0	25	
Surr: Phenol-d5	96		125.0		76.4	30	130		0	25	J
Surr: Terphenyl-d14	130		125.0		108	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113 **Batch ID: 40333**

Sample ID:	VOA11B LCS-40333	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/1/2016	RunNo:	87131
Client ID:	LCSW	Batch ID:	40333	TestNo:	SW8260B	SW1311B		Analysis Date:	7/1/2016	SeqNo:	1690667

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1,900	200	2,000	0	93.0	71	131				
1,2-Dichloroethane	1,900	200	2,000	0	96.4	73	128				
1,4-Dichlorobenzene	1,800	200	2,000	0	91.9	79	118				
Benzene	1,900	200	2,000	0	92.7	79	120				
Carbon tetrachloride	1,800	200	2,000	0	91.3	72	136				
Chlorobenzene	1,800	200	2,000	0	88.5	82	118				
Chloroform	1,800	200	2,000	0	91.7	79	124				
Methyl ethyl ketone	1,800	2,000	2,000	0	91.5	56	143				J
Tetrachloroethene	1,700	200	2,000	0	86.7	74	129				
Trichloroethene	1,700	200	2,000	0	84.0	79	123				
Vinyl chloride	2,100	200	2,000	0	106	58	137				
Surr: 4-Bromofluorobenzene	11,000		12,000		93.7	85	114				
Surr: Dibromofluoromethane	12,000		12,000		98.9	80	119				
Surr: Toluene-d8	11,000		12,000		92.7	89	112				

Sample ID:	VOA11B MBLK-40333	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/1/2016	RunNo:	87131
Client ID:	PBW	Batch ID:	40333	TestNo:	SW8260B	SW1311B		Analysis Date:	7/1/2016	SeqNo:	1690670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	200	200									U
1,2-Dichloroethane	200	200									U
1,4-Dichlorobenzene	200	200									U
Benzene	200	200									U
Carbon tetrachloride	200	200									U
Chlorobenzene	200	200									U
Chloroform	200	200									U
Methyl ethyl ketone	2,000	2,000									U
Tetrachloroethene	200	200									U
Trichloroethene	200	200									U
Vinyl chloride	200	200									U
Surr: 4-Bromofluorobenzene	8,900		10,000		89.1	85	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113 **Batch ID: 40333**

Sample ID: **VOA11B MBLK-40333** Samp Type: **MBLK** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/1/2016** RunNo: **87131**

Client ID: **PBW** Batch ID: **40333** TestNo: **SW8260B** **SW1311B** Analysis Date: **7/1/2016** SeqNo: **1690670**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9,600		10,000		96.3	80	119				
Surr: Toluene-d8	9,100		10,000		91.1	89	112				

Sample ID: **1606829-001AMS** Samp Type: **MS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/1/2016** RunNo: **87131**

Client ID: **B113-LC02-01MS1** Batch ID: **40333** TestNo: **SW8260B** **SW1311B** Analysis Date: **7/1/2016** SeqNo: **1690676**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1,900	200	2,000	0	95.2	71	131				
1,2-Dichloroethane	2,000	200	2,000	0	101	73	128				
1,4-Dichlorobenzene	1,900	200	2,000	0	93.9	79	118				
Benzene	1,900	200	2,000	0	95.6	79	120				
Carbon tetrachloride	1,800	200	2,000	0	91.0	72	136				
Chlorobenzene	1,900	200	2,000	0	94.5	82	118				
Chloroform	1,900	200	2,000	0	97.0	79	124				
Methyl ethyl ketone	1,800	2,000	2,000	0	91.0	56	143				J
Tetrachloroethene	1,800	200	2,000	0	88.7	74	129				
Trichloroethene	1,800	200	2,000	0	91.1	79	123				
Vinyl chloride	2,300	200	2,000	0	113	58	137				
Surr: 4-Bromofluorobenzene	11,000		12,000		95.3	85	114				
Surr: Dibromofluoromethane	12,000		12,000		100	80	119				
Surr: Toluene-d8	11,000		12,000		95.3	89	112				

Sample ID: **1606829-001AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/1/2016** RunNo: **87131**

Client ID: **B113-LC02-01SD1** Batch ID: **40333** TestNo: **SW8260B** **SW1311B** Analysis Date: **7/1/2016** SeqNo: **1690677**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1,900	200	2,000	0	93.3	71	131	1,904	2.02	25	
1,2-Dichloroethane	2,000	200	2,000	0	102	73	128	2,026	0.591	25	
1,4-Dichlorobenzene	1,900	200	2,000	0	93.6	79	118	1,878	0.320	25	
Benzene	2,000	200	2,000	0	97.9	79	120	1,912	2.38	25	
Carbon tetrachloride	1,800	200	2,000	0	91.2	72	136	1,820	0.220	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113 **Batch ID: 40333**

Sample ID:	**1606829-001AMSD**	Samp Type:	**MSD**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**7/1/2016**	RunNo:	**87131**
Client ID:	**B113-LC02-01SD1**	Batch ID:	**40333**	TestNo:	**SW8260B**	**SW1311B**		Analysis Date:	**7/1/2016**	SeqNo:	**1690677**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chlorobenzene	1,900	200	2,000	0	94.4	82	118	1,890	0.106	25	
Chloroform	1,900	200	2,000	0	96.6	79	124	1,940	0.413	25	
Methyl ethyl ketone	2,000	2,000	2,000	0	98.4	56	143	1,820	7.81	25	J
Tetrachloroethene	1,800	200	2,000	0	88.0	74	129	1,774	0.792	25	
Trichloroethene	1,800	200	2,000	0	89.9	79	123	1,822	1.33	25	
Vinyl chloride	2,200	200	2,000	0	112	58	137	2,264	1.24	25	
Surr: 4-Bromofluorobenzene	12,000		12,000		96.1	85	114		0	25	
Surr: Dibromofluoromethane	12,000		12,000		99.8	80	119		0	25	
Surr: Toluene-d8	11,000		12,000		94.8	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113 **Batch ID:** 40367

Sample ID:	MB-40367	Samp Type:	MBLK	Test Code:	SW_7.3.3.2	Units:	mg/Kg	Prep Date:	7/7/2016	RunNo:	87203	
Client ID:	PBS	Batch ID:	40367	TestNo:	SW7.3.3.2			Analysis Date:	7/7/2016	SeqNo:	1692603	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Reactive	1.0	1.0									U	

Sample ID:	LCS-40367	Samp Type:	LCS	Test Code:	SW_7.3.3.2	Units:	mg/Kg	Prep Date:	7/7/2016	RunNo:	87203	
Client ID:	LCSS	Batch ID:	40367	TestNo:	SW7.3.3.2			Analysis Date:	7/7/2016	SeqNo:	1692604	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Reactive	1.0	1.0	0.1000	0	0	80	120				QU	

Sample ID:	LCSD-40367	Samp Type:	LCS	Test Code:	SW_7.3.3.2	Units:	mg/Kg	Prep Date:	7/7/2016	RunNo:	87203	
Client ID:	LCSS	Batch ID:	40367	TestNo:	SW7.3.3.2			Analysis Date:	7/7/2016	SeqNo:	1692606	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Reactive	1.0	1.0	0.1000	0	0	80	120				QU	

Sample ID:	1606829-001BDUP	Samp Type:	DUP	Test Code:	SW_7.3.3.2	Units:	mg/Kg	Prep Date:	7/5/2016	RunNo:	87203	
Client ID:	B113-LC02-01LR1	Batch ID:	40367	TestNo:	SW7.3.3.2			Analysis Date:	7/7/2016	SeqNo:	1692610	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Reactive	0.050	0.050						0	0	25	U	

Sample ID:	1606829-001BMS	Samp Type:	MS	Test Code:	SW_7.3.4.2	Units:	mg/Kg	Prep Date:	7/7/2016	RunNo:	87366	
Client ID:	B113-LC02-01MS1	Batch ID:	40367	TestNo:	SW7.3.4.2			Analysis Date:	7/7/2016	SeqNo:	1696001	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Sulfide, Reactive	0.30	2.0	0.3974	0	76.3	75	125				J	

Sample ID:	1606829-001BMSD	Samp Type:	MSD	Test Code:	SW_7.3.4.2	Units:	mg/Kg	Prep Date:	7/7/2016	RunNo:	87366	
Client ID:	B113-LC02-01SD1	Batch ID:	40367	TestNo:	SW7.3.4.2			Analysis Date:	7/7/2016	SeqNo:	1696002	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Sulfide, Reactive	0.27	2.0	0.3974	0	68.3	75	125	0.3034	11.1	25	JQ	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero - B113 **Batch ID:** **R87185**

Sample ID:	**LCS-R87185**	Samp Type:	**LCS**	Test Code:	**SW_1010**	Units:	**°F**	Prep Date:	**7/6/2016**	RunNo:	**87185**
Client ID:	**LCSS**	Batch ID:	**R87185**	TestNo:	**SW1010**			Analysis Date:	**7/6/2016**	SeqNo:	**1692129**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Ignitability	81	70	81.00	0	100	90	110				

RTI Laboratories - Definitions and Acronyms

WO#: 1606829

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1606829

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

PAGE 1 OF 1

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-07
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs ~~STAR GAS (8260B)~~ TCLP	VOCs STAR FUEL (8260B)	~~SVOC-PNA (8270D/8270D-SIM Mod)~~ TCLP	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020) TCLP	~~Lead (7420)~~ Reactivity/Corrosivity	~~Ignitability (1030)~~ Ignitability	Comment
Field QC	–	–	TB	1	TB-GW-062116-02	6/21/16	0810	WQ	3	6078	3										
B113-LC02	–	–	N	1	B113-LC02-01	6/21/16	1400	LC	8			3		2				1	1	1	
B113-WP01	–	–	N	1	B113-WP01-01	6/21/16	1500	WP	1								1				
B113-CC01	–	–	N	1	B113-CC01-01	6/21/16	1430	CC	1								1				

1. Relinquished By / Company	AECOM	6/22/16	1200	1. Received By / Company: Xfer to FedEx
2. Relinquished By / Company		Date	Time	2. Received By / Company: RTI
3. Relinquished By / Company		Date	Time	3. Received By / Company

Received	Date	Time
	6/22/16	1200
	6/23/16	1000
	Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5350

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

* 1 Vial rcvd Broken.

** B113-LC02-01 TCLP

210

FedEx
TRK# 0215 8103 0202 5350
THU - 23 JUN AA
STANDARD OVERNIGHT
48150
MI-US
DTW
ET CFAA
FID 552995 22JUN16 WSHA 539C2/30BD/6A0P

CUSTODY SEALS
Date 6/22/16
Signature Kris Turi

Cooler #078
Cooler ID: 210
Cooler Temp Blank. 3.4°C

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606833

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606833-001A	TB-GW-062016-03		6/20/2016 8:20 AM	6/23/2016 10:00 AM	Water
1606833-002A	TB-GW-062116-01		6/21/2016 8:00 AM	6/23/2016 10:00 AM	Water
1606833-003A	H17-SB03-GW		6/21/2016 9:30 AM	6/23/2016 10:00 AM	Groundwater
1606833-003B	H17-SB03-GW		6/21/2016 9:30 AM	6/23/2016 10:00 AM	Groundwater
1606833-003C	H17-SB03-GW		6/21/2016 9:30 AM	6/23/2016 10:00 AM	Groundwater
1606833-003D	H17-SB03-GW		6/21/2016 9:30 AM	6/23/2016 10:00 AM	Groundwater
1606833-004A	203-SB02-GW		6/20/2016 1:02 PM	6/23/2016 10:00 AM	Groundwater
1606833-004B	203-SB02-GW		6/20/2016 1:02 PM	6/23/2016 10:00 AM	Groundwater
1606833-004C	203-SB02-GW		6/20/2016 1:02 PM	6/23/2016 10:00 AM	Groundwater
1606833-004D	203-SB02-GW		6/20/2016 1:02 PM	6/23/2016 10:00 AM	Groundwater
1606833-005A	203-SB03-GW		6/20/2016 3:25 PM	6/23/2016 10:00 AM	Groundwater
1606833-005B	203-SB03-GW		6/20/2016 3:25 PM	6/23/2016 10:00 AM	Groundwater
1606833-005C	203-SB03-GW		6/20/2016 3:25 PM	6/23/2016 10:00 AM	Groundwater
1606833-005D	203-SB03-GW		6/20/2016 3:25 PM	6/23/2016 10:00 AM	Groundwater
1606833-006A	203-SB04-GW		6/20/2016 2:00 PM	6/23/2016 10:00 AM	Groundwater
1606833-006B	203-SB04-GW		6/20/2016 2:00 PM	6/23/2016 10:00 AM	Groundwater
1606833-006C	203-SB04-GW		6/20/2016 2:00 PM	6/23/2016 10:00 AM	Groundwater
1606833-007A	203-SB05-GW		6/20/2016 10:00 AM	6/23/2016 10:00 AM	Groundwater
1606833-007B	203-SB05-GW		6/20/2016 10:00 AM	6/23/2016 10:00 AM	Groundwater
1606833-007C	203-SB05-GW		6/20/2016 10:00 AM	6/23/2016 10:00 AM	Groundwater
1606833-008A	WDS-SB18-GW		6/20/2016 9:35 AM	6/23/2016 10:00 AM	Groundwater
1606833-008B	WDS-SB18-GW		6/20/2016 9:35 AM	6/23/2016 10:00 AM	Groundwater
1606833-008C	WDS-SB18-GW		6/20/2016 9:35 AM	6/23/2016 10:00 AM	Groundwater
1606833-008D	WDS-SB18-GW		6/20/2016 9:35 AM	6/23/2016 10:00 AM	Groundwater
1606833-009A	WDS-SB19-GW		6/20/2016 10:52 AM	6/23/2016 10:00 AM	Groundwater
1606833-009B	WDS-SB19-GW		6/20/2016 10:52 AM	6/23/2016 10:00 AM	Groundwater
1606833-009C	WDS-SB19-GW		6/20/2016 10:52 AM	6/23/2016 10:00 AM	Groundwater
1606833-009D	WDS-SB19-GW		6/20/2016 10:52 AM	6/23/2016 10:00 AM	Groundwater
1606833-010A	H14-SB01-GW		6/21/2016 12:30 PM	6/23/2016 10:00 AM	Groundwater
1606833-010B	H14-SB01-GW		6/21/2016 12:30 PM	6/23/2016 10:00 AM	Groundwater
1606833-011A	H14-SB03-GW		6/21/2016 12:00 PM	6/23/2016 10:00 AM	Groundwater
1606833-011B	H14-SB03-GW		6/21/2016 12:00 PM	6/23/2016 10:00 AM	Groundwater
1606833-012A	EB-062116-01		6/21/2016 4:00 PM	6/23/2016 10:00 AM	Groundwater
1606833-013A	TB-GW-062216-01		6/22/2016 8:00 AM	6/23/2016 10:00 AM	Water
1606833-014A	MP-SB03-GW		6/22/2016 9:35 AM	6/23/2016 10:00 AM	Groundwater
1606833-014B	MP-SB03-GW		6/22/2016 9:35 AM	6/23/2016 10:00 AM	Groundwater
1606833-014C	MP-SB03-GW		6/22/2016 9:35 AM	6/23/2016 10:00 AM	Groundwater
1606833-014D	MP-SB03-GW		6/22/2016 9:35 AM	6/23/2016 10:00 AM	Groundwater
1606833-015A	MP-MW01-01		6/22/2016 10:00 AM	6/23/2016 10:00 AM	Groundwater
1606833-015B	MP-MW01-01		6/22/2016 10:00 AM	6/23/2016 10:00 AM	Groundwater
1606833-015C	MP-MW01-01		6/22/2016 10:00 AM	6/23/2016 10:00 AM	Groundwater
1606833-015D	MP-MW01-01		6/22/2016 10:00 AM	6/23/2016 10:00 AM	Groundwater
1606833-015E	MP-MW01-01		6/22/2016 10:00 AM	6/23/2016 10:00 AM	Groundwater
1606833-016A	MP-SB03-GW DUP		6/22/2016 9:35 AM	6/23/2016 10:00 AM	Groundwater
1606833-017A	EFO-SB01-GW		6/22/2016 9:45 AM	6/23/2016 10:00 AM	Groundwater

RTI Laboratories - Case Narrative

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Metals, ICP/MS - 6020
Silver and/or Antimony, ICP/MS - 6020A-SA
Polychlorinated Biphenyls - 8082A
Volatile Organic Compounds - 8260C
Semi-Volatile Organic Compounds - 8270D-MOD
Semi-Volatile Organic Compounds - 8270D SIM
Explosives - 8330B

Analytical Comments for Test SW_8260A, Analytical Run No 87115, Batch ID R87115:
Sample VOA11B ICV 063016: ICV results for Bromoform exceeds the control criteria.
Sample VOA11B CCV 070116: CCV results for 1,2-Dibromo-3-chloropropane and Bromoform exceed the control criteria.
Sample VOA11B LCS 07011: Recoveries for Bromoform and Chlorodibromomethane exceeded control limits.
Sample VOA11B LCSD 0701: Recoveries for 1,2,3-Trichloropropane, 1,2-Dibromo-3-chloropropane, Bromoform, Chlorodibromomethane exceeded control limits.
Sample 1606833-007A: Surrogate recovery for 4-Bromofluorobenzene was outside control criteria.

Analytical Comments for Test SW_8260A, Analytical Run No 87161, Batch ID R87161:
Sample VOA11B ICV 063016: ICV result for Bromoform exceeded control criteria.
Sample VOA11B CCV070516: CCV result for 1,2-Dibromo-3-chloropropane exceeded control criteria.
Sample VOA11B MBLK2 070: Chloromethane detected in method Blank and the samples below LOQ.
Sample VOA11B LCS 07051: Recoveries for Bromoform and Chlorodibromomethane exceeded control limits.
Sample 1606905-005AMS: Recoveries for 1,2,3-Trichloropropane, 1,2-Dibromo-3-chloropropane, Bromoform and Chlorodibromomethane were outside control limits. Sample was not associated with work order.
Sample 1606905-005AMSD: Recoveries for Bromoform, Chlorodibromomethane, Chloroethane and Methylene chloride were outside control limits. The RPD percentage for 1,2-Dibromo-3-chloropropane was above control limit. Sample was not associated with work order.
Sample 1606833-014A: Surrogate recovery for Toluene-d8 was outside control criteria.
Sample VOA11B CCVE070516: Ending CCV result for Dichlorodifluoromethane exceeded control criteria.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87824, Batch ID 40256:
Sample LCSD-40256: The RPD percentage for Benzo(k)fluoranthene was above control limit.
Sample 1606833-007B: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside control criteria, possibly due to matrix interference. Sample was analyzed with further dilutions on 8/3/16 at a 20x and a 2,000x.
Sample 1606833-009B: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside control criteria.
Sample 1606833-010B: Surrogate recoveries for 2-Fluorobiphenyl, Nitrobenzene-d5 and Terphenyl-d14 were outside control criteria.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87381, Batch ID R87381:
Sample ICV S7 031416: ICV result for Bis(2-chloroisopropyl) ether exceeded control criteria.
Sample CCV S7 063016: CCV results for Benzoic acid and Bis(2-chloroisopropyl) ether exceeded control criteria.
Sample CCVE S7 063016: Ending CCV results for Benzoic acid and Pentachlorophenol exceeded control criteria.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87381, Batch ID 40262
Sample LCS-40262: Recoveries for Benzoic Acid, N-Nitrosodimethylamine and Phenol exceeded the control limits.
Sample MB-40262: Surrogate recovery for Phenol-d5 was outside control criteria.
Sample 1606833-008B: Surrogate recovery for Phenol-d5 exceeded control limits.
Sample 1606833-014B: Surrogate recovery for Phenol-d5 exceeded control limits.
Sample 1606833-014B: Surrogate recovery for Phenol-d5 exceeded control limits.
Sample 1606422-008BMS: Spike recoveries for 4-Bromophenyl phenyl ether, 4-Nitrophenol, Hexachlorobenzene, N-Nitrosodimethylamine and Phenol were outside control criteria. Surrogate recovery for Phenol-d5 was outside control limits. Sample was not associated with work order.
Sample 1606422-008BMSD: Spike recoveries for multiple analytes were outside control criteria. RPD percentage for N-Nitrosodimethylamine was above control limit. Surrogate recovery for Phenol-d5 was outside control limits. Sample was not associated with work order.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87828, Batch ID R87828:
Sample ICV S8 080216: ICV results for 4,6-Dinitro-2-methylphenol, Bis(2-chloroisopropyl) ether and exceeded QC limits.
Sample CCV S8 080316: CCV results for 4,6-Dinitro-2-methylphenol, Benzoic acid, Bis(2-chloroisopropyl) ether and Pentachlorophenol exceeded control limits.

Analytical Comments for Test SW_8270S-LL, Analytical Run No 87828, Batch ID 40262
Sample 1606833-006: Surrogate Phenol-d5, Nitrobenzene-d5, 2-Fluorobiphenyl exceeded control limit.

Analytical Comments for Test SW_6020A, Analytical Run No 87684, Batch ID 40440:
Sample 1606631-005DMS: Recoveries for Aluminum and Calcium were outside control criteria. Sample was not associated with the work order.
Sample 1606631-005DMSD: Recoveries for Aluminum, Calcium and Sodium were outside control criteria. Sample was not associated with the work order.

Analytical Comments for Test SW_8330A, Analytical Run No 87250, Batch ID 40253:
Sample MB-40253: RDX was detected in the Method Blank at a concentration >1/2 the LOQ.
Sample 1606833-014DMS: Recovery for 4-Amino-2,6-dinitrotoulene exceeded control limits.
Sample 1606833-014DMSD: Recovery for 4-Amino-2,6-dinitrotoulene exceeded control limits.

Analytical Comments for Test SW_8082A, Analytical Run No 87275, Batch ID 40329:
Sample 1606833-004C: Surrogate recovery for Decachlorobiphenyl exceeded control limits.
Sample 1606833-005C: Surrogate recovery for Decachlorobiphenyl exceeded control limits.

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 8:20:00 AM
Project: Camp Hero
Lab ID: 1606833-001 **Matrix:** Water
Client Sample ID: TB-GW-062016-03

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: KAL**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 10:51 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
1,2,3-Trichloropropane	0.60	UQ	0.31	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	7/1/2016 10:51 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/1/2016 10:51 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 10:51 AM
Acetone	5.2	J	0.56	0.60	10	µg/L	1	7/1/2016 10:51 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Bromoform	0.60	UYQZ	0.25	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 10:51 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Methylene chloride	0.63	J	0.27	0.60	5.0	µg/L	1	7/1/2016 10:51 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 10:51 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 10:51 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/1/2016 10:51 AM
Surr: 4-Bromofluorobenzene	90.0			85-114		%Rec	1	7/1/2016 10:51 AM
Surr: Dibromofluoromethane	97.3			80-119		%Rec	1	7/1/2016 10:51 AM
Surr: Toluene-d8	90.4			89-112		%Rec	1	7/1/2016 10:51 AM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606833-002	**Matrix:**	Water
Client Sample ID:	TB-GW-062116-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: KAL**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 11:16 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
1,2,3-Trichloropropane	0.60	UQ	0.31	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	7/1/2016 11:16 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/1/2016 11:16 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 11:16 AM
Acetone	1.5	J	0.56	0.60	10	µg/L	1	7/1/2016 11:16 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Bromoform	0.60	UYQZ	0.25	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 11:16 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Methylene chloride	0.68	J	0.27	0.60	5.0	µg/L	1	7/1/2016 11:16 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 11:16 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 11:16 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/1/2016 11:16 AM
Surr: 4-Bromofluorobenzene	89.5			85-114		%Rec	1	7/1/2016 11:16 AM
Surr: Dibromofluoromethane	96.3			80-119		%Rec	1	7/1/2016 11:16 AM
Surr: Toluene-d8	90.1			89-112		%Rec	1	7/1/2016 11:16 AM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/21/2016 9:30:00 AM
Project: Camp Hero
Lab ID: 1606833-003 **Matrix:** Groundwater
Client Sample ID: H17-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.043	U	0.034	0.043	0.11	µg/L	1	7/6/2016 11:56 PM
Aroclor 1221	0.043	U	0.032	0.043	0.11	µg/L	1	7/6/2016 11:56 PM
Aroclor 1232	0.044	U	0.044	0.044	0.22	µg/L	1	7/6/2016 11:56 PM
Aroclor 1242	0.043	U	0.040	0.043	0.22	µg/L	1	7/6/2016 11:56 PM
Aroclor 1248	0.043	U	0.033	0.043	0.11	µg/L	1	7/6/2016 11:56 PM
Aroclor 1254	0.043	U	0.043	0.043	0.22	µg/L	1	7/6/2016 11:56 PM
Aroclor 1260	0.043	U	0.038	0.043	0.22	µg/L	1	7/6/2016 11:56 PM
Aroclor 1262	0.11	U	0.055	0.11	0.22	µg/L	1	7/6/2016 11:56 PM
Aroclor 1268	0.043	U	0.030	0.043	0.11	µg/L	1	7/6/2016 11:56 PM
Surr: Tetrachloro-m-xylene	85.8			40-135		%Rec	1	7/6/2016 11:56 PM
Surr: Decachlorobiphenyl	65.1			40-135		%Rec	1	7/6/2016 11:56 PM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	36,000		14	25	500	µg/L	50	7/28/2016 5:58 PM
Arsenic	7.8		0.61	1.0	1.5	µg/L	5	7/28/2016 3:30 PM
Barium	440		0.18	0.50	25	µg/L	5	7/28/2016 3:30 PM
Beryllium	2.1	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:30 PM
Cadmium	0.57	J	0.27	0.50	1.0	µg/L	5	7/28/2016 3:30 PM
Calcium	9,200		450	620	5,000	µg/L	25	8/3/2016 1:02 PM
Chromium	180		1.5	2.5	50	µg/L	25	8/3/2016 1:02 PM
Cobalt	30		0.60	2.5	25	µg/L	25	8/3/2016 1:02 PM
Copper	85		1.2	2.5	25	µg/L	25	8/3/2016 1:02 PM
Iron	57,000		480	1,200	2,000	µg/L	50	7/28/2016 5:58 PM
Lead	28		0.24	0.50	1.0	µg/L	5	7/28/2016 3:30 PM
Magnesium	8,500		410	1,200	5,000	µg/L	50	7/28/2016 5:58 PM
Manganese	3,100		2.6	5.0	50	µg/L	50	7/28/2016 5:58 PM
Nickel	58	G	1.0	2.5	50	µg/L	25	8/3/2016 1:02 PM
Potassium	7,000		530	620	2,500	µg/L	25	8/3/2016 1:02 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/28/2016 3:30 PM
Sodium	16,000		580	1,200	5,000	µg/L	50	7/28/2016 5:58 PM
Thallium	0.82	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:30 PM
Vanadium	77		2.4	2.5	20	µg/L	25	8/3/2016 1:02 PM
Zinc	560		1.8	2.5	50	µg/L	5	7/28/2016 3:30 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	2.1	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:18 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 5:18 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	1.1	U	0.99	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
1,2-Dichlorobenzene	1.1	U	1.0	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
1,3-Dichlorobenzene	1.1	U	0.83	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
1,4-Dichlorobenzene	2.7	U	1.1	2.7	5.5	µg/L	1	6/30/2016 8:57 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/21/2016 9:30:00 AM
Project: Camp Hero
Lab ID: 1606833-003 **Matrix:** Groundwater
Client Sample ID: H17-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.7	U	1.2	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
2,4,6-Trichlorophenol	1.1	U	1.1	1.1	4.4	µg/L	1	6/30/2016 8:57 PM
2,4-Dichlorophenol	2.7	U	1.5	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
2,4-Dimethyl phenol	2.7	U	2.4	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
2,4-Dinitrophenol	11	U	5.5	11	27	µg/L	1	6/30/2016 8:57 PM
2,4-Dinitrotoluene	1.1	U	0.66	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
2,6-Dinitrotoluene	1.1	U	0.93	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
2-Chloronaphthalene	1.1	U	0.97	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
2-Chlorophenol	1.1	U	0.96	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
2-Methylphenol (o-Cresol)	1.1	U	1.1	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
2-Nitroaniline	1.1	U	0.96	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
2-Nitrophenol	2.7	U	1.4	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
3,3´-Dichlorobenzidine	2.7	U	1.8	2.7	22	µg/L	1	6/30/2016 8:57 PM
3-Nitroaniline	1.1	U	0.92	1.1	11	µg/L	1	6/30/2016 8:57 PM
3/4-Methylphenol [m/p-Cresol]	5.5	U	2.0	5.5	11	µg/L	1	6/30/2016 8:57 PM
4,6-Dinitro-2-methylphenol	1.1	U	0.98	1.1	11	µg/L	1	6/30/2016 8:57 PM
4-Bromophenyl phenyl ether	1.1	U	0.87	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
4-Chloro-3-methylphenol	2.7	U	1.4	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
4-Chloroaniline [p-Chloroaniline]	1.1	U	0.89	1.1	11	µg/L	1	6/30/2016 8:57 PM
4-Chlorophenyl phenyl ether	1.1	U	0.87	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
4-Nitroaniline	2.7	U	1.3	2.7	11	µg/L	1	6/30/2016 8:57 PM
4-Nitrophenol	2.7	U	1.5	2.7	27	µg/L	1	6/30/2016 8:57 PM
Benzoic acid	2.7	UYQ	2.2	2.7	27	µg/L	1	6/30/2016 8:57 PM
Benzyl alcohol	2.7	U	2.3	2.7	27	µg/L	1	6/30/2016 8:57 PM
Bis(2-chloroethoxy) methane	2.7	U	1.2	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
Bis(2-chloroethyl) ether	2.7	U	1.1	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
Bis(2-chloroisopropyl)ether	2.7	UYZ	1.2	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
Bis(2-ethylhexyl) phthalate	1.1	U	0.77	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
Butyl benzyl phthalate	2.7	U	1.1	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
Carbazole	1.1	U	0.67	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
Di-n-butyl phthalate	1.1	U	0.64	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
Di-n-octyl phthalate	2.7	U	1.3	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
Dibenzofuran	1.1	U	0.83	1.1	4.4	µg/L	1	6/30/2016 8:57 PM
Diethyl phthalate	1.3	J	0.68	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
Dimethyl phthalate	1.1	U	0.78	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
Hexachlorobenzene	1.1	U	0.67	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
Hexachlorobutadiene	1.1	U	0.94	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
Hexachloroethane	1.1	U	0.81	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
Isophorone	1.1	U	1.1	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
N-Nitrosodi-n-propylamine	2.7	U	1.2	2.7	5.5	µg/L	1	6/30/2016 8:57 PM
N-Nitrosodimethylamine	1.1	UQ	0.69	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
N-Nitrosodiphenylamine	1.1	U	0.73	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
Nitrobenzene	2.7	U	1.3	2.7	3.3	µg/L	1	6/30/2016 8:57 PM
Pentachlorophenol	1.1	U	1.0	1.1	5.5	µg/L	1	6/30/2016 8:57 PM
Phenol	1.1	UQ	0.66	1.1	5.5	µg/L	1	6/30/2016 8:57 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 9:30:00 AM
Project:	Camp Hero		
Lab ID:	1606833-003	**Matrix:**	Groundwater
Client Sample ID:	H17-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	132			43-140		%Rec	1	6/30/2016 8:57 PM
Surr: 2-Fluorobiphenyl	80.2			44-119		%Rec	1	6/30/2016 8:57 PM
Surr: 2-Fluorophenol	51.7			19-119		%Rec	1	6/30/2016 8:57 PM
Surr: Nitrobenzene-d5	75.5			44-120		%Rec	1	6/30/2016 8:57 PM
Surr: Phenol-d5	38.7			30-130		%Rec	1	6/30/2016 8:57 PM
Surr: Terphenyl-d14	95.5			50-134		%Rec	1	6/30/2016 8:57 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
2-Methylnaphthalene	0.022	UG	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Acenaphthene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Acenaphthylene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Anthracene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Benz(a)anthracene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Benzo(a)pyrene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Benzo(b)fluoranthene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Benzo(g,h,i)perylene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Benzo(k)fluoranthene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Chrysene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Dibenzo(a,h)anthracene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Fluoranthene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Fluorene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Indeno(1,2,3-cd)pyrene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Naphthalene	0.022	UG	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Phenanthrene	0.022	UG	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Pyrene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 4:02 PM
Surr: 2-Fluorobiphenyl	67.3			53-106		%Rec	1	7/13/2016 4:02 PM
Surr: Nitrobenzene-d5	74.0			55-111		%Rec	1	7/13/2016 4:02 PM
Surr: Terphenyl-d14	91.4			58-132		%Rec	1	7/13/2016 4:02 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: KAL**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 11:41 AM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
1,2,3-Trichloropropane	0.60	UQ	0.31	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	7/1/2016 11:41 AM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/1/2016 11:41 AM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 11:41 AM

RTI Laboratories - Analytical Report

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Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/21/2016 9:30:00 AM
Project: Camp Hero
Lab ID: 1606833-003 **Matrix:** Groundwater
Client Sample ID: H17-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Acetone	1.5	J	0.56	0.60	10	µg/L	1	7/1/2016 11:41 AM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Bromoform	0.60	UY QZ	0.25	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 11:41 AM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Methylene chloride	0.51	J	0.27	0.60	5.0	µg/L	1	7/1/2016 11:41 AM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 11:41 AM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 11:41 AM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/1/2016 11:41 AM
Surr: 4-Bromofluorobenzene	89.3			85-114		%Rec	1	7/1/2016 11:41 AM
Surr: Dibromofluoromethane	96.3			80-119		%Rec	1	7/1/2016 11:41 AM
Surr: Toluene-d8	91.7			89-112		%Rec	1	7/1/2016 11:41 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 1:02:00 PM
Project: Camp Hero
Lab ID: 1606833-004 **Matrix:** Groundwater
Client Sample ID: 203-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.040	U	0.032	0.040	0.10	µg/L	1	7/7/2016 12:20 AM
Aroclor 1221	0.040	U	0.030	0.040	0.10	µg/L	1	7/7/2016 12:20 AM
Aroclor 1232	0.041	U	0.041	0.041	0.20	µg/L	1	7/7/2016 12:20 AM
Aroclor 1242	0.040	U	0.037	0.040	0.20	µg/L	1	7/7/2016 12:20 AM
Aroclor 1248	0.040	U	0.031	0.040	0.10	µg/L	1	7/7/2016 12:20 AM
Aroclor 1254	0.040	U	0.040	0.040	0.20	µg/L	1	7/7/2016 12:20 AM
Aroclor 1260	0.040	U	0.035	0.040	0.20	µg/L	1	7/7/2016 12:20 AM
Aroclor 1262	0.10	U	0.051	0.10	0.20	µg/L	1	7/7/2016 12:20 AM
Aroclor 1268	0.040	U	0.028	0.040	0.10	µg/L	1	7/7/2016 12:20 AM
Surr: Tetrachloro-m-xylene	82.5			40-135		%Rec	1	7/7/2016 12:20 AM
Surr: Decachlorobiphenyl	21.4	Q		40-135		%Rec	1	7/7/2016 12:20 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	49,000		14	25	500	µg/L	50	7/28/2016 5:59 PM
Arsenic	4.9		0.61	1.0	1.5	µg/L	5	7/28/2016 3:32 PM
Barium	490		0.18	0.50	25	µg/L	5	7/28/2016 3:32 PM
Beryllium	2.2	G	0.25	0.50	1.0	µg/L	5	7/28/2016 3:32 PM
Cadmium	0.90	J	0.27	0.50	1.0	µg/L	5	7/28/2016 3:32 PM
Calcium	15,000		900	1,200	10,000	µg/L	50	7/28/2016 5:59 PM
Chromium	100		1.5	2.5	50	µg/L	25	8/3/2016 1:06 PM
Cobalt	32		0.60	2.5	25	µg/L	25	8/3/2016 1:06 PM
Copper	80		1.2	2.5	25	µg/L	25	8/3/2016 1:06 PM
Iron	62,000		480	1,200	2,000	µg/L	50	7/28/2016 5:59 PM
Lead	17		0.24	0.50	1.0	µg/L	5	7/28/2016 3:32 PM
Magnesium	26,000		410	1,200	5,000	µg/L	50	7/28/2016 5:59 PM
Manganese	1,100		2.6	5.0	50	µg/L	50	7/28/2016 5:59 PM
Nickel	75	G	1.0	2.5	50	µg/L	25	8/3/2016 1:06 PM
Potassium	20,000		530	620	2,500	µg/L	25	8/3/2016 1:06 PM
Selenium	2.5	U	1.5	2.5	5.0	µg/L	5	7/28/2016 3:32 PM
Sodium	27,000		580	1,200	5,000	µg/L	50	7/28/2016 5:59 PM
Thallium	0.89	J	0.16	0.50	2.0	µg/L	5	7/28/2016 3:32 PM
Vanadium	140		2.4	2.5	20	µg/L	25	8/3/2016 1:06 PM
Zinc	180		1.8	2.5	50	µg/L	5	7/28/2016 3:32 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.1	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:19 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 5:19 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.94	U	0.85	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
1,2-Dichlorobenzene	0.94	U	0.87	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
1,3-Dichlorobenzene	0.94	U	0.71	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
1,4-Dichlorobenzene	2.4	U	0.98	2.4	4.7	µg/L	1	6/30/2016 9:22 PM

RTI Laboratories - Analytical Report

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Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 1:02:00 PM
Project: Camp Hero
Lab ID: 1606833-004 **Matrix:** Groundwater
Client Sample ID: 203-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.4	U	1.0	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
2,4,6-Trichlorophenol	0.94	U	0.91	0.94	3.8	µg/L	1	6/30/2016 9:22 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
2,4-Dinitrophenol	9.4	U	4.8	9.4	24	µg/L	1	6/30/2016 9:22 PM
2,4-Dinitrotoluene	0.94	U	0.57	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
2,6-Dinitrotoluene	0.94	U	0.80	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
2-Chloronaphthalene	0.94	U	0.83	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
2-Chlorophenol	0.94	U	0.82	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
2-Methylphenol (o-Cresol)	0.94	U	0.94	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
2-Nitroaniline	0.94	U	0.83	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
3,3´-Dichlorobenzidine	2.4	U	1.5	2.4	19	µg/L	1	6/30/2016 9:22 PM
3-Nitroaniline	0.94	U	0.79	0.94	9.4	µg/L	1	6/30/2016 9:22 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.4	µg/L	1	6/30/2016 9:22 PM
4,6-Dinitro-2-methylphenol	0.94	U	0.84	0.94	9.4	µg/L	1	6/30/2016 9:22 PM
4-Bromophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
4-Chloroaniline [p-Chloroaniline]	0.94	U	0.76	0.94	9.4	µg/L	1	6/30/2016 9:22 PM
4-Chlorophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.4	µg/L	1	6/30/2016 9:22 PM
4-Nitrophenol	2.4	U	1.3	2.4	24	µg/L	1	6/30/2016 9:22 PM
Benzoic acid	2.4	UYQ	1.9	2.4	24	µg/L	1	6/30/2016 9:22 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/30/2016 9:22 PM
Bis(2-chloroethoxy) methane	2.4	U	0.99	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
Bis(2-chloroethyl) ether	2.4	U	0.97	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
Bis(2-chloroisopropyl)ether	2.4	UYZ	1.1	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
Bis(2-ethylhexyl) phthalate	0.94	U	0.66	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
Butyl benzyl phthalate	2.4	U	0.97	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
Carbazole	0.94	U	0.57	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
Di-n-butyl phthalate	0.94	U	0.55	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
Dibenzofuran	0.94	U	0.71	0.94	3.8	µg/L	1	6/30/2016 9:22 PM
Diethyl phthalate	0.94	U	0.58	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
Dimethyl phthalate	0.94	U	0.67	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
Hexachlorobenzene	0.94	U	0.58	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
Hexachlorobutadiene	0.94	U	0.81	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
Hexachloroethane	0.94	U	0.69	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
Isophorone	0.94	U	0.91	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
N-Nitrosodi-n-propylamine	2.4	U	1.1	2.4	4.7	µg/L	1	6/30/2016 9:22 PM
N-Nitrosodimethylamine	0.94	UQ	0.60	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
N-Nitrosodiphenylamine	0.94	U	0.62	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
Nitrobenzene	2.4	U	1.2	2.4	2.8	µg/L	1	6/30/2016 9:22 PM
Pentachlorophenol	0.94	U	0.87	0.94	4.7	µg/L	1	6/30/2016 9:22 PM
Phenol	0.94	UQ	0.57	0.94	4.7	µg/L	1	6/30/2016 9:22 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 1:02:00 PM
Project: Camp Hero
Lab ID: 1606833-004 **Matrix:** Groundwater
Client Sample ID: 203-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	111			43-140		%Rec	1	6/30/2016 9:22 PM
Surr: 2-Fluorobiphenyl	67.9			44-119		%Rec	1	6/30/2016 9:22 PM
Surr: 2-Fluorophenol	41.4			19-119		%Rec	1	6/30/2016 9:22 PM
Surr: Nitrobenzene-d5	64.0			44-120		%Rec	1	6/30/2016 9:22 PM
Surr: Phenol-d5	31.0			30-130		%Rec	1	6/30/2016 9:22 PM
Surr: Terphenyl-d14	62.6			50-134		%Rec	1	6/30/2016 9:22 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
2-Methylnaphthalene	0.019	UG	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Benzo(b)fluoranthene	0.019		0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Chrysene	0.027		0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Fluoranthene	0.027		0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Naphthalene	0.022	G	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Phenanthrene	0.057	G	0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Pyrene	0.025		0.019	0.019	0.019	µg/L	1	7/13/2016 4:32 PM
Surr: 2-Fluorobiphenyl	65.4			53-106		%Rec	1	7/13/2016 4:32 PM
Surr: Nitrobenzene-d5	73.0			55-111		%Rec	1	7/13/2016 4:32 PM
Surr: Terphenyl-d14	64.6			58-132		%Rec	1	7/13/2016 4:32 PM
TCL for VOA Volatile Organic Compounds			**Method: 8260C**					**Analyst: KAL**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 12:06 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
1,2,3-Trichloropropane	0.60	UQ	0.31	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	7/1/2016 12:06 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/1/2016 12:06 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 12:06 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/20/2016 1:02:00 PM
Project:	Camp Hero		
Lab ID:	1606833-004	**Matrix:**	Groundwater
Client Sample ID:	203-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Acetone	2.5	J	0.56	0.60	10	µg/L	1	7/1/2016 12:06 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Bromoform	0.60	UY QZ	0.25	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 12:06 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Methylene chloride	0.59	J	0.27	0.60	5.0	µg/L	1	7/1/2016 12:06 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 12:06 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 12:06 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/1/2016 12:06 PM
Surr: 4-Bromofluorobenzene	88.1			85-114		%Rec	1	7/1/2016 12:06 PM
Surr: Dibromofluoromethane	97.7			80-119		%Rec	1	7/1/2016 12:06 PM
Surr: Toluene-d8	90.3			89-112		%Rec	1	7/1/2016 12:06 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 3:25:00 PM
Project: Camp Hero
Lab ID: 1606833-005 **Matrix:** Groundwater
Client Sample ID: 203-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.041	U	0.033	0.041	0.10	µg/L	1	7/7/2016 12:45 AM
Aroclor 1221	0.041	U	0.031	0.041	0.10	µg/L	1	7/7/2016 12:45 AM
Aroclor 1232	0.042	U	0.042	0.042	0.20	µg/L	1	7/7/2016 12:45 AM
Aroclor 1242	0.041	U	0.038	0.041	0.20	µg/L	1	7/7/2016 12:45 AM
Aroclor 1248	0.041	U	0.032	0.041	0.10	µg/L	1	7/7/2016 12:45 AM
Aroclor 1254	0.041	U	0.041	0.041	0.20	µg/L	1	7/7/2016 12:45 AM
Aroclor 1260	0.041	U	0.036	0.041	0.20	µg/L	1	7/7/2016 12:45 AM
Aroclor 1262	0.10	U	0.052	0.10	0.20	µg/L	1	7/7/2016 12:45 AM
Aroclor 1268	0.041	U	0.029	0.041	0.10	µg/L	1	7/7/2016 12:45 AM
Surr: Tetrachloro-m-xylene	78.7			40-135		%Rec	1	7/7/2016 12:45 AM
Surr: Decachlorobiphenyl	36.8	Q		40-135		%Rec	1	7/7/2016 12:45 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	4,700		1.4	2.5	50	µg/L	5	7/28/2016 4:15 PM
Arsenic	1.7		0.61	1.0	1.5	µg/L	5	7/28/2016 4:15 PM
Barium	85		0.18	0.50	25	µg/L	5	7/28/2016 4:15 PM
Beryllium	0.42	JG	0.25	0.50	1.0	µg/L	5	7/28/2016 4:15 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 4:15 PM
Calcium	17,000		90	120	1,000	µg/L	5	7/28/2016 4:15 PM
Chromium	8.1	J	0.30	0.50	10	µg/L	5	7/28/2016 4:15 PM
Cobalt	2.9	J	0.12	0.50	5.0	µg/L	5	7/28/2016 4:15 PM
Copper	8.1	G	0.24	0.50	5.0	µg/L	5	7/28/2016 4:15 PM
Iron	5,200		48	120	200	µg/L	5	7/28/2016 4:15 PM
Lead	2.4		0.24	0.50	1.0	µg/L	5	7/28/2016 4:15 PM
Magnesium	14,000		41	120	500	µg/L	5	7/28/2016 4:15 PM
Manganese	400	G	0.26	0.50	5.0	µg/L	5	7/28/2016 4:15 PM
Nickel	6.4	J	0.20	0.50	10	µg/L	5	7/28/2016 4:15 PM
Potassium	5,500		110	120	500	µg/L	5	7/28/2016 4:15 PM
Selenium	2.2	JG	1.5	2.5	5.0	µg/L	5	7/28/2016 4:15 PM
Sodium	38,000		58	120	500	µg/L	5	7/28/2016 4:15 PM
Thallium	0.70	JG	0.16	0.50	2.0	µg/L	5	7/28/2016 4:15 PM
Vanadium	13		0.49	0.50	4.0	µg/L	5	7/28/2016 4:15 PM
Zinc	20	J	1.8	2.5	50	µg/L	5	7/28/2016 4:15 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.40	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:20 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 5:20 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.94	U	0.85	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
1,2-Dichlorobenzene	0.94	U	0.87	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
1,3-Dichlorobenzene	0.94	U	0.71	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
1,4-Dichlorobenzene	2.4	U	0.98	2.4	4.7	µg/L	1	6/30/2016 9:48 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 3:25:00 PM
Project: Camp Hero
Lab ID: 1606833-005 **Matrix:** Groundwater
Client Sample ID: 203-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.4	U	1.0	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
2,4,6-Trichlorophenol	0.94	U	0.91	0.94	3.8	µg/L	1	6/30/2016 9:48 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
2,4-Dinitrophenol	9.4	U	4.8	9.4	24	µg/L	1	6/30/2016 9:48 PM
2,4-Dinitrotoluene	0.94	U	0.57	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
2,6-Dinitrotoluene	0.94	U	0.80	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
2-Chloronaphthalene	0.94	U	0.83	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
2-Chlorophenol	0.94	U	0.82	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
2-Methylphenol (o-Cresol)	0.94	U	0.94	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
2-Nitroaniline	0.94	U	0.83	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
3,3´-Dichlorobenzidine	2.4	U	1.5	2.4	19	µg/L	1	6/30/2016 9:48 PM
3-Nitroaniline	0.94	U	0.79	0.94	9.4	µg/L	1	6/30/2016 9:48 PM
3/4-Methylphenol [m/p-Cresol]	4.7	U	1.7	4.7	9.4	µg/L	1	6/30/2016 9:48 PM
4,6-Dinitro-2-methylphenol	0.94	U	0.84	0.94	9.4	µg/L	1	6/30/2016 9:48 PM
4-Bromophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
4-Chloroaniline [p-Chloroaniline]	0.94	U	0.76	0.94	9.4	µg/L	1	6/30/2016 9:48 PM
4-Chlorophenyl phenyl ether	0.94	U	0.74	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.4	µg/L	1	6/30/2016 9:48 PM
4-Nitrophenol	2.4	U	1.3	2.4	24	µg/L	1	6/30/2016 9:48 PM
Benzoic acid	5.3	JYQ	1.9	2.4	24	µg/L	1	6/30/2016 9:48 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/30/2016 9:48 PM
Bis(2-chloroethoxy) methane	2.4	U	0.99	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
Bis(2-chloroethyl) ether	2.4	U	0.97	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
Bis(2-chloroisopropyl)ether	2.4	UYZ	1.1	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
Bis(2-ethylhexyl) phthalate	0.94	U	0.66	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
Butyl benzyl phthalate	2.4	U	0.97	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
Carbazole	0.94	U	0.57	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
Di-n-butyl phthalate	0.94	U	0.55	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
Dibenzofuran	0.94	U	0.71	0.94	3.8	µg/L	1	6/30/2016 9:48 PM
Diethyl phthalate	0.94	U	0.58	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
Dimethyl phthalate	0.94	U	0.67	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
Hexachlorobenzene	0.94	U	0.58	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
Hexachlorobutadiene	0.94	U	0.81	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
Hexachloroethane	0.94	U	0.69	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
Isophorone	0.94	U	0.91	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
N-Nitrosodi-n-propylamine	2.4	U	1.1	2.4	4.7	µg/L	1	6/30/2016 9:48 PM
N-Nitrosodimethylamine	0.94	UQ	0.60	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
N-Nitrosodiphenylamine	0.94	U	0.62	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
Nitrobenzene	2.4	U	1.2	2.4	2.8	µg/L	1	6/30/2016 9:48 PM
Pentachlorophenol	0.94	U	0.87	0.94	4.7	µg/L	1	6/30/2016 9:48 PM
Phenol	0.94	UQ	0.57	0.94	4.7	µg/L	1	6/30/2016 9:48 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/20/2016 3:25:00 PM
Project:	Camp Hero		
Lab ID:	1606833-005	**Matrix:**	Groundwater
Client Sample ID:	203-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	131			43-140		%Rec	1	6/30/2016 9:48 PM
Surr: 2-Fluorobiphenyl	72.4			44-119		%Rec	1	6/30/2016 9:48 PM
Surr: 2-Fluorophenol	43.9			19-119		%Rec	1	6/30/2016 9:48 PM
Surr: Nitrobenzene-d5	66.9			44-120		%Rec	1	6/30/2016 9:48 PM
Surr: Phenol-d5	30.4			30-130		%Rec	1	6/30/2016 9:48 PM
Surr: Terphenyl-d14	100			50-134		%Rec	1	6/30/2016 9:48 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
2-Methylnaphthalene	0.035	G	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Naphthalene	0.028	G	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Phenanthrene	0.030	G	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 5:00 PM
Surr: 2-Fluorobiphenyl	59.6			53-106		%Rec	1	7/13/2016 5:00 PM
Surr: Nitrobenzene-d5	69.6			55-111		%Rec	1	7/13/2016 5:00 PM
Surr: Terphenyl-d14	78.2			58-132		%Rec	1	7/13/2016 5:00 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: KAL**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 12:31 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
1,2,3-Trichloropropane	0.60	UQ	0.31	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	7/1/2016 12:31 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/1/2016 12:31 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 12:31 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/20/2016 3:25:00 PM
Project:	Camp Hero		
Lab ID:	1606833-005	**Matrix:**	Groundwater
Client Sample ID:	203-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Acetone	5.4	J	0.56	0.60	10	µg/L	1	7/1/2016 12:31 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Bromoform	0.60	UY QZ	0.25	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 12:31 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Methylene chloride	0.59	J	0.27	0.60	5.0	µg/L	1	7/1/2016 12:31 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 12:31 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 12:31 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/1/2016 12:31 PM
Surr: 4-Bromofluorobenzene	89.0			85-114		%Rec	1	7/1/2016 12:31 PM
Surr: Dibromofluoromethane	98.1			80-119		%Rec	1	7/1/2016 12:31 PM
Surr: Toluene-d8	91.4			89-112		%Rec	1	7/1/2016 12:31 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606833-006 **Matrix:** Groundwater
Client Sample ID: 203-SB04-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte List Metals			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Metals, ICP/MS								
Aluminum	590		1.4	2.5	50	µg/L	5	7/28/2016 4:18 PM
Arsenic	2.1		0.61	1.0	1.5	µg/L	5	7/28/2016 4:18 PM
Barium	76		0.18	0.50	25	µg/L	5	7/28/2016 4:18 PM
Beryllium	0.50	UG	0.25	0.50	1.0	µg/L	5	7/28/2016 4:18 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 4:18 PM
Calcium	22,000		90	120	1,000	µg/L	5	7/28/2016 4:18 PM
Chromium	1.8	J	0.30	0.50	10	µg/L	5	7/28/2016 4:18 PM
Cobalt	0.66	J	0.12	0.50	5.0	µg/L	5	7/28/2016 4:18 PM
Copper	1.8	JG	0.24	0.50	5.0	µg/L	5	7/28/2016 4:18 PM
Iron	950		48	120	200	µg/L	5	7/28/2016 4:18 PM
Lead	0.52	J	0.24	0.50	1.0	µg/L	5	7/28/2016 4:18 PM
Magnesium	22,000		41	120	500	µg/L	5	7/28/2016 4:18 PM
Manganese	470	G	0.26	0.50	5.0	µg/L	5	7/28/2016 4:18 PM
Nickel	2.2	J	0.20	0.50	10	µg/L	5	7/28/2016 4:18 PM
Potassium	4,700		110	120	500	µg/L	5	7/28/2016 4:18 PM
Selenium	3.4	JG	1.5	2.5	5.0	µg/L	5	7/28/2016 4:18 PM
Sodium	52,000		580	1,200	5,000	µg/L	50	7/28/2016 6:13 PM
Thallium	0.50	UG	0.16	0.50	2.0	µg/L	5	7/28/2016 4:18 PM
Vanadium	2.7	J	0.49	0.50	4.0	µg/L	5	7/28/2016 4:18 PM
Zinc	6.2	J	1.8	2.5	50	µg/L	5	7/28/2016 4:18 PM
Target Analyte List Metals			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Silver and/or Antimony, ICP/MS								
Antimony	0.25	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:20 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 5:20 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	1.1	U	1.0	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
1,2-Dichlorobenzene	1.1	U	1.1	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
1,3-Dichlorobenzene	1.1	U	0.87	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
1,4-Dichlorobenzene	2.9	U	1.2	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
2,4,5-Trichlorophenol	2.9	U	1.3	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
2,4,6-Trichlorophenol	1.1	U	1.1	1.1	4.6	µg/L	1	6/30/2016 10:14 PM
2,4-Dichlorophenol	2.9	U	1.6	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
2,4-Dimethyl phenol	2.9	U	2.6	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
2,4-Dinitrophenol	11	U	5.8	11	29	µg/L	1	6/30/2016 10:14 PM
2,4-Dinitrotoluene	1.1	U	0.69	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
2,6-Dinitrotoluene	1.1	U	0.98	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
2-Chloronaphthalene	1.1	U	1.0	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
2-Chlorophenol	1.1	U	1.0	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
2-Methylphenol (o-Cresol)	1.1	U	1.1	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
2-Nitroaniline	1.1	U	1.0	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
2-Nitrophenol	2.9	U	1.4	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
3,3´-Dichlorobenzidine	2.9	U	1.9	2.9	23	µg/L	1	6/30/2016 10:14 PM
3-Nitroaniline	1.1	U	0.96	1.1	11	µg/L	1	6/30/2016 10:14 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606833-006 **Matrix:** Groundwater
Client Sample ID: 203-SB04-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	5.7	U	2.1	5.7	11	µg/L	1	6/30/2016 10:14 PM
4,6-Dinitro-2-methylphenol	1.1	U	1.0	1.1	11	µg/L	1	6/30/2016 10:14 PM
4-Bromophenyl phenyl ether	1.1	U	0.91	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
4-Chloro-3-methylphenol	2.9	U	1.5	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
4-Chloroaniline [p-Chloroaniline]	1.1	U	0.93	1.1	11	µg/L	1	6/30/2016 10:14 PM
4-Chlorophenyl phenyl ether	1.1	U	0.91	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
4-Nitroaniline	2.9	U	1.4	2.9	11	µg/L	1	6/30/2016 10:14 PM
4-Nitrophenol	2.9	U	1.6	2.9	29	µg/L	1	6/30/2016 10:14 PM
Benzoic acid	2.9	UYQ	2.3	2.9	29	µg/L	1	6/30/2016 10:14 PM
Benzyl alcohol	2.9	U	2.5	2.9	29	µg/L	1	6/30/2016 10:14 PM
Bis(2-chloroethoxy) methane	2.9	U	1.2	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
Bis(2-chloroethyl) ether	2.9	U	1.2	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
Bis(2-chloroisopropyl)ether	2.9	UYZ	1.3	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
Bis(2-ethylhexyl) phthalate	1.1	U	0.81	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Butyl benzyl phthalate	2.9	U	1.2	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
Carbazole	1.1	U	0.70	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Di-n-butyl phthalate	1.1	U	0.67	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Di-n-octyl phthalate	2.9	U	1.3	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
Dibenzofuran	1.1	U	0.86	1.1	4.6	µg/L	1	6/30/2016 10:14 PM
Diethyl phthalate	0.86	J	0.71	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Dimethyl phthalate	1.1	U	0.82	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Hexachlorobenzene	1.1	U	0.70	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Hexachlorobutadiene	1.1	U	0.98	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Hexachloroethane	1.1	U	0.85	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Isophorone	1.1	U	1.1	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
N-Nitrosodi-n-propylamine	2.9	U	1.3	2.9	5.7	µg/L	1	6/30/2016 10:14 PM
N-Nitrosodimethylamine	1.1	UQ	0.73	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
N-Nitrosodiphenylamine	1.1	U	0.76	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Nitrobenzene	2.9	U	1.4	2.9	3.4	µg/L	1	6/30/2016 10:14 PM
Pentachlorophenol	1.1	U	1.1	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Phenol	1.1	UQ	0.69	1.1	5.7	µg/L	1	6/30/2016 10:14 PM
Surr: 2,4,6-Tribromophenol	63.8			43-140		%Rec	1	6/30/2016 10:14 PM
Surr: 2-Fluorobiphenyl	34.4	Q		44-119		%Rec	1	6/30/2016 10:14 PM
Surr: 2-Fluorophenol	24.6			19-119		%Rec	1	6/30/2016 10:14 PM
Surr: Nitrobenzene-d5	28.2	Q		44-120		%Rec	1	6/30/2016 10:14 PM
Surr: Phenol-d5	19.3	JQ		30-130		%Rec	1	6/30/2016 10:14 PM
Surr: Terphenyl-d14	76.3			50-134		%Rec	1	6/30/2016 10:14 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.029		0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
2-Methylnaphthalene	0.042	G	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Acenaphthene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM

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WO#: 1606833

Date Reported: 8/25/2016
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Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 2:00:00 PM
Project: Camp Hero
Lab ID: 1606833-006 **Matrix:** Groundwater
Client Sample ID: 203-SB04-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Benzo(b)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Fluorene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Naphthalene	0.029	G	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Phenanthrene	0.027	G	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 5:29 PM
Surr: 2-Fluorobiphenyl	53.9			53-106		%Rec	1	7/13/2016 5:29 PM
Surr: Nitrobenzene-d5	59.4			55-111		%Rec	1	7/13/2016 5:29 PM
Surr: Terphenyl-d14	73.9			58-132		%Rec	1	7/13/2016 5:29 PM
TCL for VOA			**Method: 8260C**					**Analyst: KAL**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 12:56 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
1,2,3-Trichloropropane	0.60	UQ	0.31	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	7/1/2016 12:56 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
2-Butanone [MEK]	3.8	J	2.3	5.0	10	µg/L	1	7/1/2016 12:56 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 12:56 PM
Acetone	9.5	J	0.56	0.60	10	µg/L	1	7/1/2016 12:56 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Bromoform	0.60	UYQZ	0.25	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 12:56 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 12:56 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/20/2016 2:00:00 PM
Project:	Camp Hero		
Lab ID:	1606833-006	**Matrix:**	Groundwater
Client Sample ID:	203-SB04-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Methylene chloride	0.47	J	0.27	0.60	5.0	µg/L	1	7/1/2016 12:56 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 12:56 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 12:56 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/1/2016 12:56 PM
Surr: 4-Bromofluorobenzene	89.9			85-114		%Rec	1	7/1/2016 12:56 PM
Surr: Dibromofluoromethane	97.8			80-119		%Rec	1	7/1/2016 12:56 PM
Surr: Toluene-d8	91.6			89-112		%Rec	1	7/1/2016 12:56 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606833-007 **Matrix:** Groundwater
Client Sample ID: 203-SB05-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte List Metals			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Metals, ICP/MS								
Aluminum	4,100		1.4	2.5	50	µg/L	5	7/28/2016 4:20 PM
Arsenic	5.3		0.61	1.0	1.5	µg/L	5	7/28/2016 4:20 PM
Barium	100		0.18	0.50	25	µg/L	5	7/28/2016 4:20 PM
Beryllium	0.35	JG	0.25	0.50	1.0	µg/L	5	7/28/2016 4:20 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 4:20 PM
Calcium	52,000		900	1,200	10,000	µg/L	50	7/28/2016 6:14 PM
Chromium	6.9	J	0.30	0.50	10	µg/L	5	7/28/2016 4:20 PM
Cobalt	3.4	J	0.12	0.50	5.0	µg/L	5	7/28/2016 4:20 PM
Copper	5.9	G	0.24	0.50	5.0	µg/L	5	7/28/2016 4:20 PM
Iron	59,000		480	1,200	2,000	µg/L	50	7/28/2016 6:14 PM
Lead	2.6		0.24	0.50	1.0	µg/L	5	7/28/2016 4:20 PM
Magnesium	39,000		41	120	500	µg/L	5	7/28/2016 4:20 PM
Manganese	6,000		2.6	5.0	50	µg/L	50	7/28/2016 6:14 PM
Nickel	6.9	J	0.20	0.50	10	µg/L	5	7/28/2016 4:20 PM
Potassium	5,600		110	120	500	µg/L	5	7/28/2016 4:20 PM
Selenium	2.5	UG	1.5	2.5	5.0	µg/L	5	7/28/2016 4:20 PM
Sodium	25,000		58	120	500	µg/L	5	7/28/2016 4:20 PM
Thallium	0.50	UG	0.16	0.50	2.0	µg/L	5	7/28/2016 4:20 PM
Vanadium	10		0.49	0.50	4.0	µg/L	5	7/28/2016 4:20 PM
Zinc	25	J	1.8	2.5	50	µg/L	5	7/28/2016 4:20 PM
Target Analyte List Metals			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Silver and/or Antimony, ICP/MS								
Antimony	0.24	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:21 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 5:21 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	1.7	U	1.6	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
1,2-Dichlorobenzene	1.7	U	1.6	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
1,3-Dichlorobenzene	1.7	U	1.3	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
1,4-Dichlorobenzene	4.3	U	1.8	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
2,4,5-Trichlorophenol	4.3	U	1.9	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
2,4,6-Trichlorophenol	1.7	U	1.7	1.7	6.9	µg/L	1	6/30/2016 10:39 PM
2,4-Dichlorophenol	4.3	U	2.4	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
2,4-Dimethyl phenol	4.3	U	3.8	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
2,4-Dinitrophenol	17	U	8.7	17	43	µg/L	1	6/30/2016 10:39 PM
2,4-Dinitrotoluene	1.7	U	1.0	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
2,6-Dinitrotoluene	1.7	U	1.5	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
2-Chloronaphthalene	1.7	U	1.5	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
2-Chlorophenol	1.7	U	1.5	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
2-Methylphenol (o-Cresol)	1.7	U	1.7	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
2-Nitroaniline	1.7	U	1.5	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
2-Nitrophenol	4.3	U	2.2	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
3,3´-Dichlorobenzidine	4.3	U	2.8	4.3	34	µg/L	1	6/30/2016 10:39 PM
3-Nitroaniline	1.7	U	1.4	1.7	17	µg/L	1	6/30/2016 10:39 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606833-007 **Matrix:** Groundwater
Client Sample ID: 203-SB05-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
3/4-Methylphenol [m/p-Cresol]	8.6	U	3.2	8.6	17	µg/L	1	6/30/2016 10:39 PM
4,6-Dinitro-2-methylphenol	1.7	U	1.5	1.7	17	µg/L	1	6/30/2016 10:39 PM
4-Bromophenyl phenyl ether	1.7	U	1.4	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
4-Chloro-3-methylphenol	4.3	U	2.2	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
4-Chloroaniline [p-Chloroaniline]	1.7	U	1.4	1.7	17	µg/L	1	6/30/2016 10:39 PM
4-Chlorophenyl phenyl ether	1.7	U	1.4	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
4-Nitroaniline	4.3	U	2.0	4.3	17	µg/L	1	6/30/2016 10:39 PM
4-Nitrophenol	4.3	U	2.4	4.3	43	µg/L	1	6/30/2016 10:39 PM
Benzoic acid	4.3	UYQ	3.5	4.3	43	µg/L	1	6/30/2016 10:39 PM
Benzyl alcohol	4.3	U	3.7	4.3	43	µg/L	1	6/30/2016 10:39 PM
Bis(2-chloroethoxy) methane	4.3	U	1.8	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
Bis(2-chloroethyl) ether	4.3	U	1.8	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
Bis(2-chloroisopropyl)ether	4.3	UYZ	1.9	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
Bis(2-ethylhexyl) phthalate	1.7	U	1.2	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Butyl benzyl phthalate	4.3	U	1.8	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
Carbazole	13		1.0	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Di-n-butyl phthalate	1.7	U	1.0	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Di-n-octyl phthalate	4.3	U	2.0	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
Dibenzofuran	1.7	U	1.3	1.7	6.9	µg/L	1	6/30/2016 10:39 PM
Diethyl phthalate	1.7	U	1.1	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Dimethyl phthalate	1.7	U	1.2	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Hexachlorobenzene	1.7	U	1.1	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Hexachlorobutadiene	1.7	U	1.5	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Hexachloroethane	1.7	U	1.3	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Isophorone	1.7	U	1.7	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
N-Nitrosodi-n-propylamine	4.3	U	1.9	4.3	8.6	µg/L	1	6/30/2016 10:39 PM
N-Nitrosodimethylamine	1.7	UQ	1.1	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
N-Nitrosodiphenylamine	1.7	U	1.1	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Nitrobenzene	4.3	U	2.1	4.3	5.2	µg/L	1	6/30/2016 10:39 PM
Pentachlorophenol	1.7	U	1.6	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Phenol	1.7	UQ	1.0	1.7	8.6	µg/L	1	6/30/2016 10:39 PM
Surr: 2,4,6-Tribromophenol	135			43-140		%Rec	1	6/30/2016 10:39 PM
Surr: 2-Fluorobiphenyl	78.6			44-119		%Rec	1	6/30/2016 10:39 PM
Surr: 2-Fluorophenol	76.3			19-119		%Rec	1	6/30/2016 10:39 PM
Surr: Nitrobenzene-d5	90.0			44-120		%Rec	1	6/30/2016 10:39 PM
Surr: Phenol-d5	61.7			30-130		%Rec	1	6/30/2016 10:39 PM
Surr: Terphenyl-d14	95.3			50-134		%Rec	1	6/30/2016 10:39 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	780		40	40	40	µg/L	2000	8/3/2016 4:43 PM
2-Methylnaphthalene	710		40	40	40	µg/L	2000	8/3/2016 4:43 PM
Acenaphthene	0.22		0.020	0.020	0.020	µg/L	1	7/13/2016 5:58 PM
Acenaphthylene	9.7		0.40	0.40	0.40	µg/L	20	8/3/2016 3:48 PM
Anthracene	0.21		0.020	0.020	0.020	µg/L	1	7/13/2016 5:58 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606833-007 **Matrix:** Groundwater
Client Sample ID: 203-SB05-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Benz(a)anthracene	3.4		0.40	0.40	0.40	µg/L	20	8/3/2016 3:48 PM
Benzo(a)pyrene	0.93		0.020	0.020	0.020	µg/L	1	7/13/2016 5:58 PM
Benzo(b)fluoranthene	2.7		0.40	0.40	0.40	µg/L	20	8/3/2016 3:48 PM
Benzo(g,h,i)perylene	0.48		0.020	0.020	0.020	µg/L	1	7/13/2016 5:58 PM
Benzo(k)fluoranthene	0.57		0.020	0.020	0.020	µg/L	1	7/13/2016 5:58 PM
Chrysene	2.3		0.40	0.40	0.40	µg/L	20	8/3/2016 3:48 PM
Dibenzo(a,h)anthracene	0.22		0.020	0.020	0.020	µg/L	1	7/13/2016 5:58 PM
Fluoranthene	10		0.40	0.40	0.40	µg/L	20	8/3/2016 3:48 PM
Fluorene	120		40	40	40	µg/L	2000	8/3/2016 4:43 PM
Indeno(1,2,3-cd)pyrene	0.40		0.020	0.020	0.020	µg/L	1	7/13/2016 5:58 PM
Naphthalene	450		40	40	40	µg/L	2000	8/3/2016 4:43 PM
Phenanthrene	220		40	40	40	µg/L	2000	8/3/2016 4:43 PM
Pyrene	16		0.40	0.40	0.40	µg/L	20	8/3/2016 3:48 PM
Surr: 2-Fluorobiphenyl	19.7	Q		53-106		%Rec	1	7/13/2016 5:58 PM
Surr: Nitrobenzene-d5	708	JQ		55-111		%Rec	1	7/13/2016 5:58 PM
Surr: Terphenyl-d14	7.27	Q		58-132		%Rec	1	7/13/2016 5:58 PM
TCL for VOA			**Method: 8260C**					**Analyst: KAL**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 1:21 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
1,2,3-Trichloropropane	0.60	UQ	0.31	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
1,2-Dibromo-3-chloropropane	2.0	UYQ	1.0	2.0	5.0	µg/L	1	7/1/2016 1:21 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
2-Butanone [MEK]	16		2.3	5.0	10	µg/L	1	7/1/2016 1:21 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 1:21 PM
Acetone	33		0.56	0.60	10	µg/L	1	7/1/2016 1:21 PM
Benzene	23		0.38	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Bromoform	0.60	UYQZ	0.25	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 1:21 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
cis-1,2-Dichloroethene	6.0		0.44	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 1:21 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/20/2016 10:00:00 AM
Project:	Camp Hero		
Lab ID:	1606833-007	**Matrix:**	Groundwater
Client Sample ID:	203-SB05-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Ethylbenzene	70		0.43	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Methylene chloride	0.31	J	0.27	0.60	5.0	µg/L	1	7/1/2016 1:21 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 1:21 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 1:21 PM
Xylene (total)	47		1.3	1.8	3.0	µg/L	1	7/1/2016 1:21 PM
Surr: 4-Bromofluorobenzene	141	Q		85-114		%Rec	1	7/1/2016 1:21 PM
Surr: Dibromofluoromethane	95.3			80-119		%Rec	1	7/1/2016 1:21 PM
Surr: Toluene-d8	96.2			89-112		%Rec	1	7/1/2016 1:21 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 9:35:00 AM
Project: Camp Hero
Lab ID: 1606833-008 **Matrix:** Groundwater
Client Sample ID: WDS-SB18-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.040	U	0.032	0.040	0.10	µg/L	1	7/7/2016 1:09 AM
Aroclor 1221	0.040	U	0.030	0.040	0.10	µg/L	1	7/7/2016 1:09 AM
Aroclor 1232	0.041	U	0.041	0.041	0.20	µg/L	1	7/7/2016 1:09 AM
Aroclor 1242	0.040	U	0.037	0.040	0.20	µg/L	1	7/7/2016 1:09 AM
Aroclor 1248	0.040	U	0.031	0.040	0.10	µg/L	1	7/7/2016 1:09 AM
Aroclor 1254	0.040	U	0.040	0.040	0.20	µg/L	1	7/7/2016 1:09 AM
Aroclor 1260	0.040	U	0.035	0.040	0.20	µg/L	1	7/7/2016 1:09 AM
Aroclor 1262	0.10	U	0.052	0.10	0.20	µg/L	1	7/7/2016 1:09 AM
Aroclor 1268	0.040	U	0.028	0.040	0.10	µg/L	1	7/7/2016 1:09 AM
Surr: Tetrachloro-m-xylene	77.1			40-135		%Rec	1	7/7/2016 1:09 AM
Surr: Decachlorobiphenyl	79.4			40-135		%Rec	1	7/7/2016 1:09 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	1,700		1.4	2.5	50	µg/L	5	7/28/2016 4:22 PM
Arsenic	1.0	U	0.61	1.0	1.5	µg/L	5	7/28/2016 4:22 PM
Barium	67		0.18	0.50	25	µg/L	5	7/28/2016 4:22 PM
Beryllium	0.50	UG	0.25	0.50	1.0	µg/L	5	7/28/2016 4:22 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 4:22 PM
Calcium	13,000		90	120	1,000	µg/L	5	7/28/2016 4:22 PM
Chromium	4.2	J	0.30	0.50	10	µg/L	5	7/28/2016 4:22 PM
Cobalt	4.2	J	0.12	0.50	5.0	µg/L	5	7/28/2016 4:22 PM
Copper	4.6	JG	0.24	0.50	5.0	µg/L	5	7/28/2016 4:22 PM
Iron	3,200		48	120	200	µg/L	5	7/28/2016 4:22 PM
Lead	1.3		0.24	0.50	1.0	µg/L	5	7/28/2016 4:22 PM
Magnesium	6,800		41	120	500	µg/L	5	7/28/2016 4:22 PM
Manganese	780	G	0.26	0.50	5.0	µg/L	5	7/28/2016 4:22 PM
Nickel	11		0.20	0.50	10	µg/L	5	7/28/2016 4:22 PM
Potassium	3,500		110	120	500	µg/L	5	7/28/2016 4:22 PM
Selenium	2.5	UG	1.5	2.5	5.0	µg/L	5	7/28/2016 4:22 PM
Sodium	18,000		58	120	500	µg/L	5	7/28/2016 4:22 PM
Thallium	0.50	UG	0.16	0.50	2.0	µg/L	5	7/28/2016 4:22 PM
Vanadium	3.6	J	0.49	0.50	4.0	µg/L	5	7/28/2016 4:22 PM
Zinc	160		1.8	2.5	50	µg/L	5	7/28/2016 4:22 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.35	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:22 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 5:22 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	1.0	U	0.91	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
1,2-Dichlorobenzene	1.0	U	0.93	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
1,3-Dichlorobenzene	1.0	U	0.76	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
1,4-Dichlorobenzene	2.5	U	1.0	2.5	5.1	µg/L	1	6/30/2016 11:05 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 9:35:00 AM
Project: Camp Hero
Lab ID: 1606833-008 **Matrix:** Groundwater
Client Sample ID: WDS-SB18-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.5	U	1.1	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
2,4,6-Trichlorophenol	1.0	U	0.97	1.0	4.0	µg/L	1	6/30/2016 11:05 PM
2,4-Dichlorophenol	2.5	U	1.4	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
2,4-Dimethyl phenol	2.5	U	2.2	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
2,4-Dinitrophenol	10	U	5.1	10	25	µg/L	1	6/30/2016 11:05 PM
2,4-Dinitrotoluene	1.0	U	0.61	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
2,6-Dinitrotoluene	1.0	U	0.86	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
2-Chloronaphthalene	1.0	U	0.89	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
2-Chlorophenol	1.0	U	0.88	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
2-Methylphenol (o-Cresol)	1.0	U	1.0	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
2-Nitroaniline	1.0	U	0.89	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
2-Nitrophenol	2.5	U	1.3	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
3,3´-Dichlorobenzidine	2.5	U	1.7	2.5	20	µg/L	1	6/30/2016 11:05 PM
3-Nitroaniline	1.0	U	0.84	1.0	10	µg/L	1	6/30/2016 11:05 PM
3/4-Methylphenol [m/p-Cresol]	5.1	U	1.9	5.1	10	µg/L	1	6/30/2016 11:05 PM
4,6-Dinitro-2-methylphenol	1.0	U	0.90	1.0	10	µg/L	1	6/30/2016 11:05 PM
4-Bromophenyl phenyl ether	1.0	U	0.80	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
4-Chloro-3-methylphenol	2.5	U	1.3	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
4-Chloroaniline [p-Chloroaniline]	1.0	U	0.82	1.0	10	µg/L	1	6/30/2016 11:05 PM
4-Chlorophenyl phenyl ether	1.0	U	0.80	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
4-Nitroaniline	2.5	U	1.2	2.5	10	µg/L	1	6/30/2016 11:05 PM
4-Nitrophenol	2.5	U	1.4	2.5	25	µg/L	1	6/30/2016 11:05 PM
Benzoic acid	2.5	UYQ	2.1	2.5	25	µg/L	1	6/30/2016 11:05 PM
Benzyl alcohol	2.5	U	2.2	2.5	25	µg/L	1	6/30/2016 11:05 PM
Bis(2-chloroethoxy) methane	2.5	U	1.1	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
Bis(2-chloroethyl) ether	2.5	U	1.0	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
Bis(2-chloroisopropyl)ether	2.5	UYZ	1.1	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
Bis(2-ethylhexyl) phthalate	1.0	U	0.71	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
Butyl benzyl phthalate	2.5	U	1.0	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
Carbazole	1.0	U	0.62	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
Di-n-butyl phthalate	1.0	U	0.59	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
Di-n-octyl phthalate	2.5	U	1.2	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
Dibenzofuran	1.0	U	0.76	1.0	4.0	µg/L	1	6/30/2016 11:05 PM
Diethyl phthalate	1.0	U	0.62	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
Dimethyl phthalate	1.0	U	0.72	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
Hexachlorobenzene	1.0	U	0.62	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
Hexachlorobutadiene	1.0	U	0.86	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
Hexachloroethane	1.0	U	0.74	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
Isophorone	1.0	U	0.97	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
N-Nitrosodi-n-propylamine	2.5	U	1.1	2.5	5.1	µg/L	1	6/30/2016 11:05 PM
N-Nitrosodimethylamine	1.0	UQ	0.64	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
N-Nitrosodiphenylamine	1.0	U	0.67	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
Nitrobenzene	2.5	U	1.2	2.5	3.0	µg/L	1	6/30/2016 11:05 PM
Pentachlorophenol	1.0	U	0.93	1.0	5.1	µg/L	1	6/30/2016 11:05 PM
Phenol	1.0	UQ	0.61	1.0	5.1	µg/L	1	6/30/2016 11:05 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 9:35:00 AM
Project: Camp Hero
Lab ID: 1606833-008 **Matrix:** Groundwater
Client Sample ID: WDS-SB18-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	114			43-140		%Rec	1	6/30/2016 11:05 PM
Surr: 2-Fluorobiphenyl	62.2			44-119		%Rec	1	6/30/2016 11:05 PM
Surr: 2-Fluorophenol	43.0			19-119		%Rec	1	6/30/2016 11:05 PM
Surr: Nitrobenzene-d5	59.4			44-120		%Rec	1	6/30/2016 11:05 PM
Surr: Phenol-d5	29.9	Q		30-130		%Rec	1	6/30/2016 11:05 PM
Surr: Terphenyl-d14	94.4			50-134		%Rec	1	6/30/2016 11:05 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.047		0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
2-Methylnaphthalene	0.11	G	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Acenaphthene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Acenaphthylene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Benz(a)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Benzo(a)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Benzo(b)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Benzo(g,h,i)perylene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Benzo(k)fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Chrysene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Dibenzo(a,h)anthracene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Fluoranthene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Fluorene	0.030		0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Indeno(1,2,3-cd)pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Naphthalene	0.040	G	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Phenanthrene	0.044	G	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Pyrene	0.020	U	0.020	0.020	0.020	µg/L	1	7/13/2016 6:27 PM
Surr: 2-Fluorobiphenyl	65.6			53-106		%Rec	1	7/13/2016 6:27 PM
Surr: Nitrobenzene-d5	74.2			55-111		%Rec	1	7/13/2016 6:27 PM
Surr: Terphenyl-d14	87.4			58-132		%Rec	1	7/13/2016 6:27 PM
TCL for VOA Volatile Organic Compounds			**Method: 8260C**					**Analyst: KAL**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 1:46 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
1,2,3-Trichloropropane	0.60	UQ	0.31	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
1,2-Dibromo-3-chloropropane	2.0	UY Q	1.0	2.0	5.0	µg/L	1	7/1/2016 1:46 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/1/2016 1:46 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 1:46 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 9:35:00 AM
Project: Camp Hero
Lab ID: 1606833-008 **Matrix:** Groundwater
Client Sample ID: WDS-SB18-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Acetone	7.3	J	0.56	0.60	10	µg/L	1	7/1/2016 1:46 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Bromoform	0.60	UY QZ	0.25	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 1:46 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Methylene chloride	0.47	J	0.27	0.60	5.0	µg/L	1	7/1/2016 1:46 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 1:46 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 1:46 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/1/2016 1:46 PM
Surr: 4-Bromofluorobenzene	93.2			85-114		%Rec	1	7/1/2016 1:46 PM
Surr: Dibromofluoromethane	95.6			80-119		%Rec	1	7/1/2016 1:46 PM
Surr: Toluene-d8	91.3			89-112		%Rec	1	7/1/2016 1:46 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 10:52:00 AM
Project: Camp Hero
Lab ID: 1606833-009 **Matrix:** Groundwater
Client Sample ID: WDS-SB19-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.043	U	0.034	0.043	0.11	µg/L	1	7/7/2016 1:33 AM
Aroclor 1221	0.043	U	0.032	0.043	0.11	µg/L	1	7/7/2016 1:33 AM
Aroclor 1232	0.044	U	0.044	0.044	0.21	µg/L	1	7/7/2016 1:33 AM
Aroclor 1242	0.043	U	0.039	0.043	0.21	µg/L	1	7/7/2016 1:33 AM
Aroclor 1248	0.043	U	0.033	0.043	0.11	µg/L	1	7/7/2016 1:33 AM
Aroclor 1254	0.043	U	0.043	0.043	0.21	µg/L	1	7/7/2016 1:33 AM
Aroclor 1260	0.043	U	0.037	0.043	0.21	µg/L	1	7/7/2016 1:33 AM
Aroclor 1262	0.11	U	0.054	0.11	0.21	µg/L	1	7/7/2016 1:33 AM
Aroclor 1268	0.043	U	0.030	0.043	0.11	µg/L	1	7/7/2016 1:33 AM
Surr: Tetrachloro-m-xylene	88.8			40-135		%Rec	1	7/7/2016 1:33 AM
Surr: Decachlorobiphenyl	40.6			40-135		%Rec	1	7/7/2016 1:33 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	26,000		14	25	500	µg/L	50	7/28/2016 6:16 PM
Arsenic	6.7		0.61	1.0	1.5	µg/L	5	7/28/2016 4:24 PM
Barium	290		0.18	0.50	25	µg/L	5	7/28/2016 4:24 PM
Beryllium	1.2	G	0.25	0.50	1.0	µg/L	5	7/28/2016 4:24 PM
Cadmium	0.40	J	0.27	0.50	1.0	µg/L	5	7/28/2016 4:24 PM
Calcium	21,000		90	120	1,000	µg/L	5	7/28/2016 4:24 PM
Chromium	43		0.30	0.50	10	µg/L	5	7/28/2016 4:24 PM
Cobalt	20		0.12	0.50	5.0	µg/L	5	7/28/2016 4:24 PM
Copper	34	G	0.24	0.50	5.0	µg/L	5	7/28/2016 4:24 PM
Iron	38,000		48	120	200	µg/L	5	7/28/2016 4:24 PM
Lead	25		0.24	0.50	1.0	µg/L	5	7/28/2016 4:24 PM
Magnesium	19,000		41	120	500	µg/L	5	7/28/2016 4:24 PM
Manganese	1,100	G	0.26	0.50	5.0	µg/L	5	7/28/2016 4:24 PM
Nickel	35		0.20	0.50	10	µg/L	5	7/28/2016 4:24 PM
Potassium	8,900		110	120	500	µg/L	5	7/28/2016 4:24 PM
Selenium	2.5	UG	1.5	2.5	5.0	µg/L	5	7/28/2016 4:24 PM
Sodium	25,000		58	120	500	µg/L	5	7/28/2016 4:24 PM
Thallium	0.52	JG	0.16	0.50	2.0	µg/L	5	7/28/2016 4:24 PM
Vanadium	58		0.49	0.50	4.0	µg/L	5	7/28/2016 4:24 PM
Zinc	100		1.8	2.5	50	µg/L	5	7/28/2016 4:24 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.48	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:23 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 5:23 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	1.0	U	0.94	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
1,2-Dichlorobenzene	1.0	U	0.96	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
1,3-Dichlorobenzene	1.0	U	0.79	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
1,4-Dichlorobenzene	2.6	U	1.1	2.6	5.2	µg/L	1	6/30/2016 11:31 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 10:52:00 AM
Project: Camp Hero
Lab ID: 1606833-009 **Matrix:** Groundwater
Client Sample ID: WDS-SB19-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.6	U	1.2	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
2,4,6-Trichlorophenol	1.0	U	1.0	1.0	4.2	µg/L	1	6/30/2016 11:31 PM
2,4-Dichlorophenol	2.6	U	1.5	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
2,4-Dimethyl phenol	2.6	U	2.3	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
2,4-Dinitrophenol	10	U	5.3	10	26	µg/L	1	6/30/2016 11:31 PM
2,4-Dinitrotoluene	1.0	U	0.62	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
2,6-Dinitrotoluene	1.0	U	0.89	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
2-Chloronaphthalene	1.0	U	0.92	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
2-Chlorophenol	1.0	U	0.91	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
2-Methylphenol (o-Cresol)	1.0	U	1.0	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
2-Nitroaniline	1.0	U	0.91	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
2-Nitrophenol	2.6	U	1.3	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
3,3´-Dichlorobenzidine	2.6	U	1.7	2.6	21	µg/L	1	6/30/2016 11:31 PM
3-Nitroaniline	1.0	U	0.87	1.0	10	µg/L	1	6/30/2016 11:31 PM
3/4-Methylphenol [m/p-Cresol]	5.2	U	1.9	5.2	10	µg/L	1	6/30/2016 11:31 PM
4,6-Dinitro-2-methylphenol	1.0	U	0.92	1.0	10	µg/L	1	6/30/2016 11:31 PM
4-Bromophenyl phenyl ether	1.0	U	0.82	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
4-Chloro-3-methylphenol	2.6	U	1.3	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
4-Chloroaniline [p-Chloroaniline]	1.0	U	0.84	1.0	10	µg/L	1	6/30/2016 11:31 PM
4-Chlorophenyl phenyl ether	1.0	U	0.82	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
4-Nitroaniline	2.6	U	1.2	2.6	10	µg/L	1	6/30/2016 11:31 PM
4-Nitrophenol	2.6	U	1.5	2.6	26	µg/L	1	6/30/2016 11:31 PM
Benzoic acid	2.6	UYQ	2.1	2.6	26	µg/L	1	6/30/2016 11:31 PM
Benzyl alcohol	2.6	U	2.2	2.6	26	µg/L	1	6/30/2016 11:31 PM
Bis(2-chloroethoxy) methane	2.6	U	1.1	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
Bis(2-chloroethyl) ether	2.6	U	1.1	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
Bis(2-chloroisopropyl)ether	2.6	UYZ	1.2	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
Bis(2-ethylhexyl) phthalate	1.0	U	0.73	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
Butyl benzyl phthalate	2.6	U	1.1	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
Carbazole	1.0	U	0.63	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
Di-n-butyl phthalate	1.0	U	0.61	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
Di-n-octyl phthalate	2.6	U	1.2	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
Dibenzofuran	1.0	U	0.78	1.0	4.2	µg/L	1	6/30/2016 11:31 PM
Diethyl phthalate	1.0	U	0.64	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
Dimethyl phthalate	1.0	U	0.74	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
Hexachlorobenzene	1.0	U	0.64	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
Hexachlorobutadiene	1.0	U	0.89	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
Hexachloroethane	1.0	U	0.77	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
Isophorone	1.0	U	1.0	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
N-Nitrosodi-n-propylamine	2.6	U	1.2	2.6	5.2	µg/L	1	6/30/2016 11:31 PM
N-Nitrosodimethylamine	1.0	UQ	0.66	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
N-Nitrosodiphenylamine	1.0	U	0.69	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
Nitrobenzene	2.6	U	1.3	2.6	3.1	µg/L	1	6/30/2016 11:31 PM
Pentachlorophenol	1.0	U	0.96	1.0	5.2	µg/L	1	6/30/2016 11:31 PM
Phenol	1.0	UQ	0.63	1.0	5.2	µg/L	1	6/30/2016 11:31 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 10:52:00 AM
Project: Camp Hero
Lab ID: 1606833-009 **Matrix:** Groundwater
Client Sample ID: WDS-SB19-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: 2,4,6-Tribromophenol	119			43-140		%Rec	1	6/30/2016 11:31 PM
Surr: 2-Fluorobiphenyl	72.7			44-119		%Rec	1	6/30/2016 11:31 PM
Surr: 2-Fluorophenol	50.8			19-119		%Rec	1	6/30/2016 11:31 PM
Surr: Nitrobenzene-d5	71.6			44-120		%Rec	1	6/30/2016 11:31 PM
Surr: Phenol-d5	35.4			30-130		%Rec	1	6/30/2016 11:31 PM
Surr: Terphenyl-d14	94.1			50-134		%Rec	1	6/30/2016 11:31 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.057		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
2-Methylnaphthalene	0.081	G	0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Acenaphthene	0.093		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Anthracene	0.058		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Benz(a)anthracene	0.11		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Benzo(a)pyrene	0.067		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Benzo(b)fluoranthene	0.10		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Benzo(g,h,i)perylene	0.051		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Benzo(k)fluoranthene	0.034		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Chrysene	0.062		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Fluoranthene	0.19		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Fluorene	0.069		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Indeno(1,2,3-cd)pyrene	0.043		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Naphthalene	0.29	G	0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Phenanthrene	0.33	G	0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Pyrene	0.18		0.019	0.019	0.019	µg/L	1	7/13/2016 6:55 PM
Surr: 2-Fluorobiphenyl	41.1	Q		53-106		%Rec	1	7/13/2016 6:55 PM
Surr: Nitrobenzene-d5	46.4	Q		55-111		%Rec	1	7/13/2016 6:55 PM
Surr: Terphenyl-d14	54.7	Q		58-132		%Rec	1	7/13/2016 6:55 PM
TCL for VOA Volatile Organic Compounds			**Method: 8260C**					**Analyst: KAL**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 2:11 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
1,2,3-Trichloropropane	0.60	UQ	0.31	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
1,2-Dibromo-3-chloropropane	2.0	UY Q	1.0	2.0	5.0	µg/L	1	7/1/2016 2:11 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
2-Butanone [MEK]	6.6	J	2.3	5.0	10	µg/L	1	7/1/2016 2:11 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 2:11 PM

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WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/20/2016 10:52:00 AM
Project: Camp Hero
Lab ID: 1606833-009 **Matrix:** Groundwater
Client Sample ID: WDS-SB19-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Acetone	8.9	J	0.56	0.60	10	µg/L	1	7/1/2016 2:11 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Bromoform	0.60	UY QZ	0.25	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 2:11 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Methylene chloride	0.41	J	0.27	0.60	5.0	µg/L	1	7/1/2016 2:11 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 2:11 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 2:11 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/1/2016 2:11 PM
Surr: 4-Bromofluorobenzene	93.7			85-114		%Rec	1	7/1/2016 2:11 PM
Surr: Dibromofluoromethane	94.2			80-119		%Rec	1	7/1/2016 2:11 PM
Surr: Toluene-d8	92.7			89-112		%Rec	1	7/1/2016 2:11 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606833-010	**Matrix:**	Groundwater
Client Sample ID:	H14-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte List Metals			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Metals, ICP/MS								
Aluminum	5,000		1.4	2.5	50	µg/L	5	7/28/2016 4:26 PM
Arsenic	1.5		0.61	1.0	1.5	µg/L	5	7/28/2016 4:26 PM
Barium	54		0.18	0.50	25	µg/L	5	7/28/2016 4:26 PM
Beryllium	0.46	JG	0.25	0.50	1.0	µg/L	5	7/28/2016 4:26 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 4:26 PM
Calcium	7,000		90	120	1,000	µg/L	5	7/28/2016 4:26 PM
Chromium	11		0.30	0.50	10	µg/L	5	7/28/2016 4:26 PM
Cobalt	6.8		0.12	0.50	5.0	µg/L	5	7/28/2016 4:26 PM
Copper	6.3	G	0.24	0.50	5.0	µg/L	5	7/28/2016 4:26 PM
Iron	8,200		48	120	200	µg/L	5	7/28/2016 4:26 PM
Lead	3.2		0.24	0.50	1.0	µg/L	5	7/28/2016 4:26 PM
Magnesium	5,100		41	120	500	µg/L	5	7/28/2016 4:26 PM
Manganese	2,000	G	0.26	0.50	5.0	µg/L	5	7/28/2016 4:26 PM
Nickel	10		0.20	0.50	10	µg/L	5	7/28/2016 4:26 PM
Potassium	3,500		110	120	500	µg/L	5	7/28/2016 4:26 PM
Selenium	1.7	JG	1.5	2.5	5.0	µg/L	5	7/28/2016 4:26 PM
Sodium	22,000		58	120	500	µg/L	5	7/28/2016 4:26 PM
Thallium	0.17	JG	0.16	0.50	2.0	µg/L	5	7/28/2016 4:26 PM
Vanadium	10		0.49	0.50	4.0	µg/L	5	7/28/2016 4:26 PM
Zinc	13	J	1.8	2.5	50	µg/L	5	7/28/2016 4:26 PM
Target Analyte List Metals			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Silver and/or Antimony, ICP/MS								
Antimony	0.75	UG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:24 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 5:24 PM
Poylnuclear Hydrocarbons - SIM			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
Semi-Volatile Organic Compounds								
1-Methylnaphthalene	0.039		0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
2-Methylnaphthalene	0.048	G	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Acenaphthene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Acenaphthylene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Anthracene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Benz(a)anthracene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Benzo(a)pyrene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Benzo(b)fluoranthene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Benzo(g,h,i)perylene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Benzo(k)fluoranthene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Chrysene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Dibenzo(a,h)anthracene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Fluoranthene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Fluorene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Indeno(1,2,3-cd)pyrene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Naphthalene	0.039	G	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Phenanthrene	0.021	UG	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM

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Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1606833-010	**Matrix:**	Groundwater
Client Sample ID:	H14-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.021	U	0.021	0.021	0.021	µg/L	1	7/13/2016 7:23 PM
Surr: 2-Fluorobiphenyl	39.7	Q		53-106		%Rec	1	7/13/2016 7:23 PM
Surr: Nitrobenzene-d5	46.1	Q		55-111		%Rec	1	7/13/2016 7:23 PM
Surr: Terphenyl-d14	48.9	Q		58-132		%Rec	1	7/13/2016 7:23 PM

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WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 12:00:00 PM
Project:	Camp Hero		
Lab ID:	1606833-011	**Matrix:**	Groundwater
Client Sample ID:	H14-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	3,200		1.4	2.5	50	µg/L	5	7/28/2016 4:28 PM
Arsenic	0.73	J	0.61	1.0	1.5	µg/L	5	7/28/2016 4:28 PM
Barium	57		0.18	0.50	25	µg/L	5	7/28/2016 4:28 PM
Beryllium	0.50	UG	0.25	0.50	1.0	µg/L	5	7/28/2016 4:28 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 4:28 PM
Calcium	9,600		90	120	1,000	µg/L	5	7/28/2016 4:28 PM
Chromium	13		0.30	0.50	10	µg/L	5	7/28/2016 4:28 PM
Cobalt	2.5	J	0.12	0.50	5.0	µg/L	5	7/28/2016 4:28 PM
Copper	6.3	G	0.24	0.50	5.0	µg/L	5	7/28/2016 4:28 PM
Iron	4,800		48	120	200	µg/L	5	7/28/2016 4:28 PM
Lead	1.6		0.24	0.50	1.0	µg/L	5	7/28/2016 4:28 PM
Magnesium	6,500		41	120	500	µg/L	5	7/28/2016 4:28 PM
Manganese	420	G	0.26	0.50	5.0	µg/L	5	7/28/2016 4:28 PM
Nickel	6.2	J	0.20	0.50	10	µg/L	5	7/28/2016 4:28 PM
Potassium	4,800		110	120	500	µg/L	5	7/28/2016 4:28 PM
Selenium	2.5	UG	1.5	2.5	5.0	µg/L	5	7/28/2016 4:28 PM
Sodium	31,000		58	120	500	µg/L	5	7/28/2016 4:28 PM
Thallium	0.50	UG	0.16	0.50	2.0	µg/L	5	7/28/2016 4:28 PM
Vanadium	7.5		0.49	0.50	4.0	µg/L	5	7/28/2016 4:28 PM
Zinc	20	J	1.8	2.5	50	µg/L	5	7/28/2016 4:28 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.75	UG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:24 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 5:24 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
2-Methylnaphthalene	0.032	G	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Acenaphthene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Acenaphthylene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Anthracene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Benz(a)anthracene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Benzo(a)pyrene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Benzo(b)fluoranthene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Benzo(g,h,i)perylene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Benzo(k)fluoranthene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Chrysene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Dibenzo(a,h)anthracene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Fluoranthene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Fluorene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Indeno(1,2,3-cd)pyrene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Naphthalene	0.029	G	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Phenanthrene	0.022	UG	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 12:00:00 PM
Project:	Camp Hero		
Lab ID:	1606833-011	**Matrix:**	Groundwater
Client Sample ID:	H14-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Pyrene	0.022	U	0.022	0.022	0.022	µg/L	1	7/13/2016 7:51 PM
Surr: 2-Fluorobiphenyl	61.2			53-106		%Rec	1	7/13/2016 7:51 PM
Surr: Nitrobenzene-d5	70.7			55-111		%Rec	1	7/13/2016 7:51 PM
Surr: Terphenyl-d14	91.6			58-132		%Rec	1	7/13/2016 7:51 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 4:00:00 PM
Project:	Camp Hero		
Lab ID:	1606833-012	**Matrix:**	Groundwater
Client Sample ID:	EB-062116-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.041	U	0.033	0.041	0.10	µg/L	1	7/7/2016 1:58 AM
Aroclor 1221	0.041	U	0.031	0.041	0.10	µg/L	1	7/7/2016 1:58 AM
Aroclor 1232	0.042	U	0.042	0.042	0.21	µg/L	1	7/7/2016 1:58 AM
Aroclor 1242	0.041	U	0.038	0.041	0.21	µg/L	1	7/7/2016 1:58 AM
Aroclor 1248	0.041	U	0.032	0.041	0.10	µg/L	1	7/7/2016 1:58 AM
Aroclor 1254	0.041	U	0.041	0.041	0.21	µg/L	1	7/7/2016 1:58 AM
Aroclor 1260	0.041	U	0.036	0.041	0.21	µg/L	1	7/7/2016 1:58 AM
Aroclor 1262	0.10	U	0.053	0.10	0.21	µg/L	1	7/7/2016 1:58 AM
Aroclor 1268	0.041	U	0.029	0.041	0.10	µg/L	1	7/7/2016 1:58 AM
Surr: Tetrachloro-m-xylene	93.9			40-135		%Rec	1	7/7/2016 1:58 AM
Surr: Decachlorobiphenyl	100			40-135		%Rec	1	7/7/2016 1:58 AM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/22/2016 8:00:00 AM
Project:	Camp Hero		
Lab ID:	1606833-013	**Matrix:**	Water
Client Sample ID:	TB-GW-062216-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: KAL**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/5/2016 1:24 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	7/5/2016 1:24 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/5/2016 1:24 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/5/2016 1:24 PM
Acetone	5.7	J	0.56	0.60	10	µg/L	1	7/5/2016 1:24 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Bromoform	0.60	UQ Z	0.25	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/5/2016 1:24 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Chloromethane	0.86	JB	0.37	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Methylene chloride	0.61	J	0.27	0.60	5.0	µg/L	1	7/5/2016 1:24 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/5/2016 1:24 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/5/2016 1:24 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/5/2016 1:24 PM
Surr: 4-Bromofluorobenzene	91.0			85-114		%Rec	1	7/5/2016 1:24 PM
Surr: Dibromofluoromethane	93.9			80-119		%Rec	1	7/5/2016 1:24 PM
Surr: Toluene-d8	90.3			89-112		%Rec	1	7/5/2016 1:24 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/22/2016 9:35:00 AM
Project: Camp Hero
Lab ID: 1606833-014 **Matrix:** Groundwater
Client Sample ID: MP-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.037	U	0.030	0.037	0.093	µg/L	1	7/7/2016 2:22 AM
Aroclor 1221	0.037	U	0.028	0.037	0.093	µg/L	1	7/7/2016 2:22 AM
Aroclor 1232	0.038	U	0.038	0.038	0.19	µg/L	1	7/7/2016 2:22 AM
Aroclor 1242	0.037	U	0.035	0.037	0.19	µg/L	1	7/7/2016 2:22 AM
Aroclor 1248	0.037	U	0.029	0.037	0.093	µg/L	1	7/7/2016 2:22 AM
Aroclor 1254	0.037	U	0.037	0.037	0.19	µg/L	1	7/7/2016 2:22 AM
Aroclor 1260	0.037	U	0.033	0.037	0.19	µg/L	1	7/7/2016 2:22 AM
Aroclor 1262	0.093	U	0.048	0.093	0.19	µg/L	1	7/7/2016 2:22 AM
Aroclor 1268	0.037	U	0.026	0.037	0.093	µg/L	1	7/7/2016 2:22 AM
Surr: Tetrachloro-m-xylene	91.1			40-135		%Rec	1	7/7/2016 2:22 AM
Surr: Decachlorobiphenyl	68.3			40-135		%Rec	1	7/7/2016 2:22 AM
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene [1,3,5-TNB]	0.11	U	0.020	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
1,3-Dinitrobenzene [1,3-DNB]	0.11	U	0.026	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
2,4,6-Trinitrotoluene	0.11	U	0.019	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
2,4-Dinitrotoluene	0.11	U	0.032	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
2,6-Dinitrotoluene	0.11	U	0.029	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
2-Amino-4,6-dinitrotoluene	0.11	U	0.024	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
2-Nitrotoluene	0.11	U	0.026	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
3-Nitrotoluene	0.11	U	0.024	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
4-Amino-2,6-dinitrotoluene	0.11	UX	0.024	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
4-Nitrotoluene	0.11	U	0.063	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.11	UB	0.029	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
Nitrobenzene	0.11	U	0.052	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.11	U	0.027	0.11	0.21	µg/L	1	6/30/2016 4:37 AM
Tetryl	0.11	U	0.093	0.11	0.32	µg/L	1	6/30/2016 4:37 AM
Surr: 4-Nitroaniline	95.3			70-130		%Rec	1	6/30/2016 4:37 AM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.95	U	0.86	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
1,2-Dichlorobenzene	0.95	U	0.88	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
1,3-Dichlorobenzene	0.95	U	0.72	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
1,4-Dichlorobenzene	2.4	U	0.99	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
2,4,6-Trichlorophenol	0.95	U	0.91	0.95	3.8	µg/L	1	6/30/2016 11:58 PM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
2,4-Dinitrophenol	9.5	U	4.8	9.5	24	µg/L	1	6/30/2016 11:58 PM
2,4-Dinitrotoluene	0.95	U	0.57	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
2,6-Dinitrotoluene	0.95	U	0.81	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
2-Chloronaphthalene	0.95	U	0.84	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
2-Chlorophenol	0.95	U	0.83	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
2-Methylphenol (o-Cresol)	0.95	U	0.95	0.95	4.8	µg/L	1	6/30/2016 11:58 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/22/2016 9:35:00 AM
Project: Camp Hero
Lab ID: 1606833-014 **Matrix:** Groundwater
Client Sample ID: MP-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2-Nitroaniline	0.95	U	0.84	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
2-Nitrophenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	6/30/2016 11:58 PM
3-Nitroaniline	0.95	U	0.79	0.95	9.5	µg/L	1	6/30/2016 11:58 PM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.7	4.8	9.5	µg/L	1	6/30/2016 11:58 PM
4,6-Dinitro-2-methylphenol	0.95	U	0.85	0.95	9.5	µg/L	1	6/30/2016 11:58 PM
4-Bromophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
4-Chloroaniline [p-Chloroaniline]	0.95	U	0.77	0.95	9.5	µg/L	1	6/30/2016 11:58 PM
4-Chlorophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
4-Nitroaniline	2.4	U	1.1	2.4	9.5	µg/L	1	6/30/2016 11:58 PM
4-Nitrophenol	2.4	U	1.3	2.4	24	µg/L	1	6/30/2016 11:58 PM
Benzoic acid	2.4	UYQ	1.9	2.4	24	µg/L	1	6/30/2016 11:58 PM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	6/30/2016 11:58 PM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
Bis(2-chloroethyl) ether	2.4	U	0.98	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
Bis(2-chloroisopropyl)ether	2.4	UYZ	1.1	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
Bis(2-ethylhexyl) phthalate	0.95	U	0.67	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Butyl benzyl phthalate	2.4	U	0.98	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
Carbazole	0.95	U	0.58	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Di-n-butyl phthalate	0.95	U	0.55	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
Dibenzofuran	0.95	U	0.72	0.95	3.8	µg/L	1	6/30/2016 11:58 PM
Diethyl phthalate	0.95	U	0.59	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Dimethyl phthalate	0.95	U	0.68	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Hexachlorobenzene	0.95	U	0.58	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Hexachlorobutadiene	0.95	U	0.81	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Hexachloroethane	0.95	U	0.70	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
N-Nitrosodi-n-propylamine	2.4	U	1.1	2.4	4.8	µg/L	1	6/30/2016 11:58 PM
N-Nitrosodimethylamine	0.95	UQ	0.60	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
N-Nitrosodiphenylamine	0.95	U	0.63	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	6/30/2016 11:58 PM
Pentachlorophenol	0.95	U	0.88	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Phenol	0.95	UQ	0.57	0.95	4.8	µg/L	1	6/30/2016 11:58 PM
Surr: 2,4,6-Tribromophenol	119			43-140		%Rec	1	6/30/2016 11:58 PM
Surr: 2-Fluorobiphenyl	57.5			44-119		%Rec	1	6/30/2016 11:58 PM
Surr: 2-Fluorophenol	38.3			19-119		%Rec	1	6/30/2016 11:58 PM
Surr: Nitrobenzene-d5	53.5			44-120		%Rec	1	6/30/2016 11:58 PM
Surr: Phenol-d5	28.6	Q		30-130		%Rec	1	6/30/2016 11:58 PM
Surr: Terphenyl-d14	99.2			50-134		%Rec	1	6/30/2016 11:58 PM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/22/2016 9:35:00 AM
Project: Camp Hero
Lab ID: 1606833-014 **Matrix:** Groundwater
Client Sample ID: MP-SB03-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2-Methylnaphthalene	0.019	UG	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Naphthalene	0.019	UG	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Phenanthrene	0.019	UG	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:19 PM
Surr: 2-Fluorobiphenyl	65.5			53-106		%Rec	1	7/13/2016 8:19 PM
Surr: Nitrobenzene-d5	73.4			55-111		%Rec	1	7/13/2016 8:19 PM
Surr: Terphenyl-d14	87.9			58-132		%Rec	1	7/13/2016 8:19 PM
TCL for VOA			**Method: 8260C**					**Analyst: KAL**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/5/2016 2:14 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	7/5/2016 2:14 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/5/2016 2:14 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/5/2016 2:14 PM
Acetone	2.7	J	0.56	0.60	10	µg/L	1	7/5/2016 2:14 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Bromoform	0.60	UQZ	0.25	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/5/2016 2:14 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/5/2016 2:14 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/22/2016 9:35:00 AM
Project:	Camp Hero		
Lab ID:	1606833-014	**Matrix:**	Groundwater
Client Sample ID:	MP-SB03-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Chloromethane	0.76	JB	0.37	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Methylene chloride	0.48	J	0.27	0.60	5.0	µg/L	1	7/5/2016 2:14 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/5/2016 2:14 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/5/2016 2:14 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/5/2016 2:14 PM
Surr: 4-Bromofluorobenzene	89.8			85-114		%Rec	1	7/5/2016 2:14 PM
Surr: Dibromofluoromethane	94.8			80-119		%Rec	1	7/5/2016 2:14 PM
Surr: Toluene-d8	89.0	Q		89-112		%Rec	1	7/5/2016 2:14 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/22/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606833-015 **Matrix:** Groundwater
Client Sample ID: MP-MW01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.038	U	0.031	0.038	0.096	µg/L	1	7/7/2016 2:46 AM
Aroclor 1221	0.038	U	0.029	0.038	0.096	µg/L	1	7/7/2016 2:46 AM
Aroclor 1232	0.039	U	0.039	0.039	0.19	µg/L	1	7/7/2016 2:46 AM
Aroclor 1242	0.038	U	0.036	0.038	0.19	µg/L	1	7/7/2016 2:46 AM
Aroclor 1248	0.038	U	0.030	0.038	0.096	µg/L	1	7/7/2016 2:46 AM
Aroclor 1254	0.038	U	0.038	0.038	0.19	µg/L	1	7/7/2016 2:46 AM
Aroclor 1260	0.038	U	0.034	0.038	0.19	µg/L	1	7/7/2016 2:46 AM
Aroclor 1262	0.096	U	0.049	0.096	0.19	µg/L	1	7/7/2016 2:46 AM
Aroclor 1268	0.038	U	0.027	0.038	0.096	µg/L	1	7/7/2016 2:46 AM
Surr: Tetrachloro-m-xylene	86.4			40-135		%Rec	1	7/7/2016 2:46 AM
Surr: Decachlorobiphenyl	78.7			40-135		%Rec	1	7/7/2016 2:46 AM
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene [1,3,5-TNB]	0.11	U	0.020	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
1,3-Dinitrobenzene [1,3-DNB]	0.11	U	0.026	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
2,4,6-Trinitrotoluene	0.11	U	0.019	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
2,4-Dinitrotoluene	0.11	U	0.032	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
2,6-Dinitrotoluene	0.11	U	0.029	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
2-Amino-4,6-dinitrotoluene	0.11	U	0.024	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
2-Nitrotoluene	0.11	U	0.026	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
3-Nitrotoluene	0.11	U	0.024	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
4-Amino-2,6-dinitrotoluene	0.11	U	0.024	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
4-Nitrotoluene	0.11	U	0.063	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.11	UB	0.029	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
Nitrobenzene	0.11	U	0.052	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.11	U	0.027	0.11	0.21	µg/L	1	6/30/2016 8:50 AM
Tetryl	0.11	U	0.093	0.11	0.32	µg/L	1	6/30/2016 8:50 AM
Surr: 4-Nitroaniline	88.4			70-130		%Rec	1	6/30/2016 8:50 AM
Target Analyte List Metals			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Metals, ICP/MS								
Aluminum	51		1.4	2.5	50	µg/L	5	7/28/2016 4:30 PM
Arsenic	3.2		0.61	1.0	1.5	µg/L	5	7/28/2016 4:30 PM
Barium	45		0.18	0.50	25	µg/L	5	7/28/2016 4:30 PM
Beryllium	0.50	UG	0.25	0.50	1.0	µg/L	5	7/28/2016 4:30 PM
Cadmium	0.50	U	0.27	0.50	1.0	µg/L	5	7/28/2016 4:30 PM
Calcium	12,000		90	120	1,000	µg/L	5	7/28/2016 4:30 PM
Chromium	1.2	J	0.30	0.50	10	µg/L	5	7/28/2016 4:30 PM
Cobalt	1.0	J	0.12	0.50	5.0	µg/L	5	7/28/2016 4:30 PM
Copper	150	G	0.24	0.50	5.0	µg/L	5	7/28/2016 4:30 PM
Iron	10,000		48	120	200	µg/L	5	7/28/2016 4:30 PM
Lead	52		0.24	0.50	1.0	µg/L	5	7/28/2016 4:30 PM
Magnesium	5,700		41	120	500	µg/L	5	7/28/2016 4:30 PM
Manganese	750	G	0.26	0.50	5.0	µg/L	5	7/28/2016 4:30 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/22/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606833-015 **Matrix:** Groundwater
Client Sample ID: MP-MW01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Nickel	1.9	J	0.20	0.50	10	µg/L	5	7/28/2016 4:30 PM
Potassium	2,100		110	120	500	µg/L	5	7/28/2016 4:30 PM
Selenium	2.5	UG	1.5	2.5	5.0	µg/L	5	7/28/2016 4:30 PM
Sodium	25,000		58	120	500	µg/L	5	7/28/2016 4:30 PM
Thallium	0.50	UG	0.16	0.50	2.0	µg/L	5	7/28/2016 4:30 PM
Vanadium	0.50	U	0.49	0.50	4.0	µg/L	5	7/28/2016 4:30 PM
Zinc	940		1.8	2.5	50	µg/L	5	7/28/2016 4:30 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	1.0	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 4:58 PM
Silver	0.50	U	0.24	0.50	1.5	µg/L	5	7/12/2016 4:58 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	0.95	U	0.86	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
1,2-Dichlorobenzene	0.95	U	0.88	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
1,3-Dichlorobenzene	0.95	U	0.72	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
1,4-Dichlorobenzene	2.4	U	0.99	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
2,4,5-Trichlorophenol	2.4	U	1.1	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
2,4,6-Trichlorophenol	0.95	U	0.91	0.95	3.8	µg/L	1	7/1/2016 12:25 AM
2,4-Dichlorophenol	2.4	U	1.3	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
2,4-Dimethyl phenol	2.4	U	2.1	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
2,4-Dinitrophenol	9.5	U	4.8	9.5	24	µg/L	1	7/1/2016 12:25 AM
2,4-Dinitrotoluene	0.95	U	0.57	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
2,6-Dinitrotoluene	0.95	U	0.81	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
2-Chloronaphthalene	0.95	U	0.84	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
2-Chlorophenol	0.95	U	0.83	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
2-Methylphenol (o-Cresol)	0.95	U	0.95	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
2-Nitroaniline	0.95	U	0.84	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
2-Nitrophenol	2.4	U	1.2	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
3,3´-Dichlorobenzidine	2.4	U	1.6	2.4	19	µg/L	1	7/1/2016 12:25 AM
3-Nitroaniline	0.95	U	0.79	0.95	9.5	µg/L	1	7/1/2016 12:25 AM
3/4-Methylphenol [m/p-Cresol]	4.8	U	1.7	4.8	9.5	µg/L	1	7/1/2016 12:25 AM
4,6-Dinitro-2-methylphenol	0.95	U	0.85	0.95	9.5	µg/L	1	7/1/2016 12:25 AM
4-Bromophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
4-Chloro-3-methylphenol	2.4	U	1.2	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
4-Chloroaniline [p-Chloroaniline]	0.95	U	0.77	0.95	9.5	µg/L	1	7/1/2016 12:25 AM
4-Chlorophenyl phenyl ether	0.95	U	0.75	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
4-Nitroaniline	2.4	U	1.1	2.4	9.5	µg/L	1	7/1/2016 12:25 AM
4-Nitrophenol	2.4	U	1.3	2.4	24	µg/L	1	7/1/2016 12:25 AM
Benzoic acid	2.4	UYQ	1.9	2.4	24	µg/L	1	7/1/2016 12:25 AM
Benzyl alcohol	2.4	U	2.0	2.4	24	µg/L	1	7/1/2016 12:25 AM
Bis(2-chloroethoxy) methane	2.4	U	1.0	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
Bis(2-chloroethyl) ether	2.4	U	0.98	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
Bis(2-chloroisopropyl)ether	2.4	UYZ	1.1	2.4	4.8	µg/L	1	7/1/2016 12:25 AM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/22/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606833-015 **Matrix:** Groundwater
Client Sample ID: MP-MW01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Bis(2-ethylhexyl) phthalate	0.95	U	0.67	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Butyl benzyl phthalate	2.4	U	0.98	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
Carbazole	0.95	U	0.58	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Di-n-butyl phthalate	0.95	U	0.55	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Di-n-octyl phthalate	2.4	U	1.1	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
Dibenzofuran	0.95	U	0.72	0.95	3.8	µg/L	1	7/1/2016 12:25 AM
Diethyl phthalate	0.95	U	0.59	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Dimethyl phthalate	0.95	U	0.68	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Hexachlorobenzene	0.95	U	0.58	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Hexachlorobutadiene	0.95	U	0.81	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Hexachloroethane	0.95	U	0.70	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Isophorone	0.95	U	0.92	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
N-Nitrosodi-n-propylamine	2.4	U	1.1	2.4	4.8	µg/L	1	7/1/2016 12:25 AM
N-Nitrosodimethylamine	0.95	UQ	0.60	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
N-Nitrosodiphenylamine	0.95	U	0.63	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Nitrobenzene	2.4	U	1.2	2.4	2.9	µg/L	1	7/1/2016 12:25 AM
Pentachlorophenol	0.95	U	0.88	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Phenol	0.95	UQ	0.57	0.95	4.8	µg/L	1	7/1/2016 12:25 AM
Surr: 2,4,6-Tribromophenol	104			43-140		%Rec	1	7/1/2016 12:25 AM
Surr: 2-Fluorobiphenyl	60.6			44-119		%Rec	1	7/1/2016 12:25 AM
Surr: 2-Fluorophenol	39.2			19-119		%Rec	1	7/1/2016 12:25 AM
Surr: Nitrobenzene-d5	54.4			44-120		%Rec	1	7/1/2016 12:25 AM
Surr: Phenol-d5	28.1	Q		30-130		%Rec	1	7/1/2016 12:25 AM
Surr: Terphenyl-d14	94.9			50-134		%Rec	1	7/1/2016 12:25 AM
Poylnuclear Hydrocarbons - SIM Semi-Volatile Organic Compounds			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
2-Methylnaphthalene	0.019	UG	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Acenaphthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Acenaphthylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Benz(a)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Benzo(a)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Benzo(b)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Benzo(g,h,i)perylene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Benzo(k)fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Chrysene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Dibenzo(a,h)anthracene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Fluoranthene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Fluorene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Indeno(1,2,3-cd)pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Naphthalene	0.019	UG	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Phenanthrene	0.019	UG	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Pyrene	0.019	U	0.019	0.019	0.019	µg/L	1	7/13/2016 8:47 PM
Surr: 2-Fluorobiphenyl	73.6			53-106		%Rec	1	7/13/2016 8:47 PM
Surr: Nitrobenzene-d5	82.4			55-111		%Rec	1	7/13/2016 8:47 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/22/2016 10:00:00 AM
Project: Camp Hero
Lab ID: 1606833-015 **Matrix:** Groundwater
Client Sample ID: MP-MW01-01

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Terphenyl-d14	90.5			58-132		%Rec	1	7/13/2016 8:47 PM
TCL for VOA			**Method: 8260C**					**Analyst: KAL**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/5/2016 2:39 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	7/5/2016 2:39 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/5/2016 2:39 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/5/2016 2:39 PM
Acetone	2.0	J	0.56	0.60	10	µg/L	1	7/5/2016 2:39 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Bromoform	0.60	UQZ	0.25	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Carbon disulfide	0.75	J	0.54	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/5/2016 2:39 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Chloromethane	0.78	JB	0.37	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Methylene chloride	0.47	J	0.27	0.60	5.0	µg/L	1	7/5/2016 2:39 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/5/2016 2:39 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/5/2016 2:39 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/5/2016 2:39 PM
Surr: 4-Bromofluorobenzene	88.6			85-114		%Rec	1	7/5/2016 2:39 PM
Surr: Dibromofluoromethane	95.7			80-119		%Rec	1	7/5/2016 2:39 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/22/2016 10:00:00 AM
Project:	Camp Hero		
Lab ID:	1606833-015	**Matrix:**	Groundwater
Client Sample ID:	MP-MW01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Surr: Toluene-d8	90.3			89-112		%Rec	1	7/5/2016 2:39 PM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/22/2016 9:35:00 AM
Project:	Camp Hero		
Lab ID:	1606833-016	**Matrix:**	Groundwater
Client Sample ID:	MP-SB03-GW DUP		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene [1,3,5-TNB]	0.10	U	0.020	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
1,3-Dinitrobenzene [1,3-DNB]	0.10	U	0.026	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
2,4,6-Trinitrotoluene	0.10	U	0.019	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
2,4-Dinitrotoluene	0.10	U	0.031	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
2,6-Dinitrotoluene	0.10	U	0.029	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
2-Amino-4,6-dinitrotoluene	0.10	U	0.024	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
2-Nitrotoluene	0.10	U	0.026	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
3-Nitrotoluene	0.10	U	0.024	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
4-Amino-2,6-dinitrotoluene	0.10	U	0.024	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
4-Nitrotoluene	0.10	U	0.063	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.10	UB	0.029	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
Nitrobenzene	0.10	U	0.051	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.10	U	0.027	0.10	0.21	µg/L	1	6/30/2016 10:15 AM
Tetryl	0.10	U	0.092	0.10	0.31	µg/L	1	6/30/2016 10:15 AM
Surr: 4-Nitroaniline	92.4			70-130		%Rec	1	6/30/2016 10:15 AM

RTI Laboratories - Analytical Report

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/22/2016 9:45:00 AM
Project:	Camp Hero		
Lab ID:	1606833-017	**Matrix:**	Groundwater
Client Sample ID:	EFO-SB01-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Explosives			**Method: 8330B**					**Analyst: RR3**
1,3,5-Trinitrobenzene [1,3,5-TNB]	0.11	U	0.020	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
1,3-Dinitrobenzene [1,3-DNB]	0.11	U	0.026	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
2,4,6-Trinitrotoluene	0.11	U	0.019	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
2,4-Dinitrotoluene	0.11	U	0.032	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
2,6-Dinitrotoluene	0.11	U	0.029	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
2-Amino-4,6-dinitrotoluene	0.11	U	0.024	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
2-Nitrotoluene	0.11	U	0.026	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
3-Nitrotoluene	0.11	U	0.024	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
4-Amino-2,6-dinitrotoluene	0.11	U	0.024	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
4-Nitrotoluene	0.11	U	0.063	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	0.11	UB	0.029	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
Nitrobenzene	0.11	U	0.052	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.11	U	0.027	0.11	0.21	µg/L	1	6/30/2016 11:39 AM
Tetryl	0.11	U	0.093	0.11	0.32	µg/L	1	6/30/2016 11:39 AM
Surr: 4-Nitroaniline	82.3			70-130		%Rec	1	6/30/2016 11:39 AM

RTI Laboratories - DATES REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606833-001A	TB-GW-062016-03	6/20/2016 8:20 AM	Water				
				SW_8260A-Volatile Organic Compounds		7/1/2016 10:51 AM	7/1/2016 10:51 AM
1606833-002A	TB-GW-062116-01	6/21/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		7/1/2016 11:16 AM	7/1/2016 11:16 AM
1606833-003A	H17-SB03-GW	6/21/2016 9:30 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/1/2016 11:41 AM	7/1/2016 11:41 AM
1606833-003B	H17-SB03-GW	6/21/2016 9:30 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 4:02 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 8:57 PM
1606833-003C	H17-SB03-GW	6/21/2016 9:30 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/6/2016 11:56 PM
1606833-003D	H17-SB03-GW	6/21/2016 9:30 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:30 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:58 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	8/3/2016 1:02 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	8/3/2016 1:04 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:18 PM
1606833-004A	203-SB02-GW	6/20/2016 1:02 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/1/2016 12:06 PM	7/1/2016 12:06 PM
1606833-004B	203-SB02-GW	6/20/2016 1:02 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 4:32 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 9:22 PM
1606833-004C	203-SB02-GW	6/20/2016 1:02 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/7/2016 12:20 AM
1606833-004D	203-SB02-GW	6/20/2016 1:02 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 3:32 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 5:59 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	8/3/2016 1:06 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	8/3/2016 1:08 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:19 PM
1606833-005A	203-SB03-GW	6/20/2016 3:25 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/1/2016 12:31 PM	7/1/2016 12:31 PM

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WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606833-005B	203-SB03-GW	6/20/2016 3:25 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 5:00 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 9:48 PM
1606833-005C	203-SB03-GW	6/20/2016 3:25 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/7/2016 12:45 AM
1606833-005D	203-SB03-GW	6/20/2016 3:25 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 4:15 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 6:12 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:20 PM
1606833-006A	203-SB04-GW	6/20/2016 2:00 PM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/1/2016 12:56 PM	7/1/2016 12:56 PM
1606833-006B	203-SB04-GW	6/20/2016 2:00 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 5:29 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 10:14 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	8/3/2016 3:37 PM
1606833-006C	203-SB04-GW	6/20/2016 2:00 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 4:18 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 6:13 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:20 PM
1606833-007A	203-SB05-GW	6/20/2016 10:00 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/1/2016 1:21 PM	7/1/2016 1:21 PM
1606833-007B	203-SB05-GW	6/20/2016 10:00 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 5:58 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	8/2/2016 10:15 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	8/3/2016 3:48 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	8/3/2016 4:43 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 10:39 PM
1606833-007C	203-SB05-GW	6/20/2016 10:00 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 4:20 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 6:14 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:21 PM

RTI Laboratories - DATES REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606833-008A	WDS-SB18-GW	6/20/2016 9:35 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/1/2016 1:46 PM	7/1/2016 1:46 PM
1606833-008B	WDS-SB18-GW	6/20/2016 9:35 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 6:27 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 11:05 PM
1606833-008C	WDS-SB18-GW	6/20/2016 9:35 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/7/2016 1:09 AM
1606833-008D	WDS-SB18-GW	6/20/2016 9:35 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 4:22 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 6:15 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:22 PM
1606833-009A	WDS-SB19-GW	6/20/2016 10:52 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/1/2016 2:11 PM	7/1/2016 2:11 PM
1606833-009B	WDS-SB19-GW	6/20/2016 10:52 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 6:55 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	8/4/2016 10:38 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 11:31 PM
1606833-009C	WDS-SB19-GW	6/20/2016 10:52 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/7/2016 1:33 AM
1606833-009D	WDS-SB19-GW	6/20/2016 10:52 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 4:24 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 6:16 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:23 PM
1606833-010A	H14-SB01-GW	6/21/2016 12:30 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 7:23 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	8/4/2016 11:05 PM
1606833-010B	H14-SB01-GW	6/21/2016 12:30 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 4:26 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 6:17 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:24 PM
1606833-011A	H14-SB03-GW	6/21/2016 12:00 PM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 7:51 PM

RTI Laboratories - DATES REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606833-011B	H14-SB03-GW	6/21/2016 12:00 PM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 4:28 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 6:18 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:24 PM
1606833-012A	EB-062116-01	6/21/2016 4:00 PM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/7/2016 1:58 AM
1606833-013A	TB-GW-062216-01	6/22/2016 8:00 AM	Water				
				SW_8260A-Volatile Organic Compounds		7/5/2016 1:24 PM	7/5/2016 1:24 PM
1606833-014A	MP-SB03-GW	6/22/2016 9:35 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/5/2016 2:14 PM	7/5/2016 2:14 PM
1606833-014B	MP-SB03-GW	6/22/2016 9:35 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 8:19 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	6/30/2016 11:58 PM
1606833-014C	MP-SB03-GW	6/22/2016 9:35 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/7/2016 2:22 AM
1606833-014D	MP-SB03-GW	6/22/2016 9:35 AM	Groundwater				
				SW_8330A-Explosives		6/22/2016 2:11 PM	6/30/2016 4:37 AM
1606833-015A	MP-MW01-01	6/22/2016 10:00 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/5/2016 2:39 PM	7/5/2016 2:39 PM
1606833-015B	MP-MW01-01	6/22/2016 10:00 AM	Groundwater				
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/26/2016 6:56 AM	7/13/2016 8:47 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/27/2016 8:37 AM	7/1/2016 12:25 AM
1606833-015C	MP-MW01-01	6/22/2016 10:00 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/5/2016 5:20 AM	7/7/2016 2:46 AM
1606833-015D	MP-MW01-01	6/22/2016 10:00 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 4:30 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 6:19 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 4:58 PM
1606833-015E	MP-MW01-01	6/22/2016 10:00 AM	Groundwater				
				SW_8330A-Explosives		6/22/2016 2:11 PM	6/30/2016 8:50 AM
1606833-016A	MP-SB03-GW DUP	6/22/2016 9:35 AM	Groundwater				
				SW_8330A-Explosives		6/22/2016 2:11 PM	6/30/2016 10:15 AM

RTI Laboratories - DATES REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606833-017A	EFO-SB01-GW	6/22/2016 9:45 AM	Groundwater				
				SW_8330A-Explosives		6/22/2016 2:11 PM	6/30/2016 11:39 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40253**

Sample ID:	**MB-40253**	Samp Type:	**MBLK**	Test Code:	**SW_8330A**	Units:	**µg/L**	Prep Date:	**6/22/2016**	RunNo:	**87250**
Client ID:	**PBW**	Batch ID:	**40253**	TestNo:	**SW8330**			Analysis Date:	**6/30/2016**	SeqNo:	**1693476**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene [1,3,5-TNB]	0.20	0.20									U
1,3-Dinitrobenzene [1,3-DNB]	0.20	0.20									U
2,4,6-Trinitrotoluene	0.20	0.20									U
2,4-Dinitrotoluene	0.20	0.20									U
2,6-Dinitrotoluene	0.20	0.20									U
2-Amino-4,6-dinitrotoluene	0.20	0.20									U
2-Nitrotoluene	0.20	0.20									U
3-Nitrotoluene	0.20	0.20									U
4-Amino-2,6-dinitrotoluene	0.20	0.20									U
4-Nitrotoluene	0.20	0.20									U
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.7	0.20									T
Nitrobenzene	0.20	0.20									U
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	0.20	0.20									U
Tetryl	0.30	0.30									U
Surr: 4-Nitroaniline	1.7		2.000		83.4	70	130				

Sample ID:	**LCS-40253**	Samp Type:	**LCS**	Test Code:	**SW_8330A**	Units:	**µg/L**	Prep Date:	**6/22/2016**	RunNo:	**87250**
Client ID:	**LCSW**	Batch ID:	**40253**	TestNo:	**SW8330**			Analysis Date:	**6/30/2016**	SeqNo:	**1693477**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene [1,3,5-TNB]	2.3	0.20	2.000	0	114	73	125				
1,3-Dinitrobenzene [1,3-DNB]	1.7	0.20	2.000	0	85.2	78	120				
2,4,6-Trinitrotoluene	1.7	0.20	2.000	0	86.5	71	123				
2,4-Dinitrotoluene	1.9	0.20	2.000	0	97.0	78	120				
2,6-Dinitrotoluene	1.8	0.20	2.000	0	92.4	77	127				
2-Amino-4,6-dinitrotoluene	2.0	0.20	2.000	0	101	79	120				
2-Nitrotoluene	2.1	0.20	2.000	0	104	70	127				
3-Nitrotoluene	1.9	0.20	2.000	0	93.2	73	125				
4-Amino-2,6-dinitrotoluene	2.4	0.20	2.000	0	122	76	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40253

Sample ID:	LCS-40253	Samp Type:	LCS	Test Code:	SW_8330A	Units:	µg/L	Prep Date:	6/22/2016	RunNo:	87250
Client ID:	LCSW	Batch ID:	40253	TestNo:	SW8330			Analysis Date:	6/30/2016	SeqNo:	1693477

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitrotoluene	2.1	0.20	2.000	0	103	71	127				
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	2.4	0.20	2.000	0	120	68	130				B
Nitrobenzene	2.0	0.20	2.000	0	101	65	134				
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	1.8	0.20	2.000	0	90.4	65	135				
Tetryl	2.1	0.30	2.000	0	104	64	128				
Surr: 4-Nitroaniline	1.7		2.000		83.2	70	130				

Sample ID:	1606833-014DMS	Samp Type:	MS	Test Code:	SW_8330A	Units:	µg/L	Prep Date:	6/22/2016	RunNo:	87250
Client ID:	MP-SB03-GWMS1	Batch ID:	40253	TestNo:	SW8330			Analysis Date:	6/30/2016	SeqNo:	1693480

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene [1,3,5-TNB]	1.9	0.22	2.174	0	88.9	73	125				
1,3-Dinitrobenzene [1,3-DNB]	1.8	0.22	2.174	0	84.2	78	120				
2,4,6-Trinitrotoluene	2.1	0.22	2.174	0	98.2	71	123				
2,4-Dinitrotoluene	2.1	0.22	2.174	0	97.9	78	120				
2,6-Dinitrotoluene	2.1	0.22	2.174	0	96.1	77	127				
2-Amino-4,6-dinitrotoluene	2.1	0.22	2.174	0	97.0	79	120				
2-Nitrotoluene	2.4	0.22	2.174	0	109	70	127				
3-Nitrotoluene	2.1	0.22	2.174	0	97.0	73	125				
4-Amino-2,6-dinitrotoluene	2.7	0.22	2.174	0	125	76	125				Q
4-Nitrotoluene	2.6	0.22	2.174	0	117	71	127				
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.7	0.22	2.174	0	79.2	68	130				B
Nitrobenzene	2.0	0.22	2.174	0	91.2	65	134				
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	1.7	0.22	2.174	0	79.4	65	135				
Tetryl	2.3	0.33	2.174	0	106	64	128				
Surr: 4-Nitroaniline	1.8		2.174		84.5	70	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40253**

Sample ID:	**1606833-014DMSD**	Samp Type:	**MSD**	Test Code:	**SW_8330A**	Units:	**µg/L**	Prep Date:	**6/22/2016**	RunNo:	**87250**
Client ID:	**MP-SB03-GWSD1**	Batch ID:	**40253**	TestNo:	**SW8330**			Analysis Date:	**6/30/2016**	SeqNo:	**1693481**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,3,5-Trinitrobenzene [1,3,5-TNB]	1.9	0.20	2.020	0	93.4	73	125	1.933	2.44	20	
1,3-Dinitrobenzene [1,3-DNB]	1.7	0.20	2.020	0	85.8	78	120	1.831	5.43	20	
2,4,6-Trinitrotoluene	1.9	0.20	2.020	0	94.6	71	123	2.135	11.0	20	
2,4-Dinitrotoluene	2.1	0.20	2.020	0	103	78	120	2.127	2.58	20	
2,6-Dinitrotoluene	1.9	0.20	2.020	0	96.2	77	127	2.089	7.27	20	
2-Amino-4,6-dinitrotoluene	2.2	0.20	2.020	0	107	79	120	2.108	2.47	20	
2-Nitrotoluene	2.1	0.20	2.020	0	105	70	127	2.379	11.1	20	
3-Nitrotoluene	2.0	0.20	2.020	0	101	73	125	2.109	2.94	20	
4-Amino-2,6-dinitrotoluene	2.5	0.20	2.020	0	125	76	125	2.726	7.26	20	Q
4-Nitrotoluene	2.2	0.20	2.020	0	106	71	127	2.554	17.1	20	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	1.7	0.20	2.020	0	85.8	68	130	1.722	0.658	20	B
Nitrobenzene	2.0	0.20	2.020	0	97.5	65	134	1.983	0.688	20	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	1.7	0.20	2.020	0	85.2	65	135	1.727	0.285	20	
Tetryl	2.1	0.30	2.020	0	105	64	128	2.294	8.30	20	
Surr: 4-Nitroaniline	1.9		2.020		93.7	70	130		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40256**

Sample ID:	MB-40256	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	87824
Client ID:	PBW	Batch ID:	40256	TestNo:	SW8270C	SW3510C		Analysis Date:	7/13/2016	SeqNo:	1707040

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									UG
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									UG
Phenanthrene	0.020	0.020									UG
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.34		0.5000		68.3	53	106				
Surr: Nitrobenzene-d5	0.38		0.5000		75.4	55	111				
Surr: Terphenyl-d14	0.45		0.5000		90.3	58	132				

Sample ID:	LCS-40256	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	87824
Client ID:	LCSW	Batch ID:	40256	TestNo:	SW8270C	SW3510C		Analysis Date:	7/13/2016	SeqNo:	1707041

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.29	0.020	0.4000	0	73.5	41	115				
2-Methylnaphthalene	0.29	0.020	0.4000	0	72.5	39	114				G
Acenaphthene	0.29	0.020	0.4000	0	72.3	48	114				
Acenaphthylene	0.28	0.020	0.4000	0	70.8	35	121				
Anthracene	0.30	0.020	0.4000	0	74.3	53	119				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40256**

Sample ID:	LCS-40256	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	87824
Client ID:	LCSW	Batch ID:	40256	TestNo:	SW8270C	SW3510C		Analysis Date:	7/13/2016	SeqNo:	1707041

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.40	0.020	0.4000	0	101	59	120				
Benzo(a)pyrene	0.29	0.020	0.4000	0	73.4	53	120				
Benzo(b)fluoranthene	0.43	0.020	0.4000	0	108	53	126				
Benzo(g,h,i)perylene	0.36	0.020	0.4000	0	90.7	44	128				
Benzo(k)fluoranthene	0.26	0.020	0.4000	0	66.0	54	125				
Chrysene	0.28	0.020	0.4000	0	71.2	57	120				
Dibenzo(a,h)anthracene	0.38	0.020	0.4000	0	95.6	44	131				
Fluoranthene	0.29	0.020	0.4000	0	72.2	58	120				
Fluorene	0.32	0.020	0.4000	0	79.7	50	118				
Indeno(1,2,3-cd)pyrene	0.30	0.020	0.4000	0	76.2	48	130				
Naphthalene	0.26	0.020	0.4000	0	64.0	43	114				G
Phenanthrene	0.38	0.020	0.4000	0	94.9	53	115				G
Pyrene	0.34	0.020	0.4000	0	86.1	53	124				
Surr: 2-Fluorobiphenyl	0.43		0.5000		85.6	53	106				
Surr: Nitrobenzene-d5	0.48		0.5000		96.5	55	111				
Surr: Terphenyl-d14	0.56		0.5000		112	58	132				

Sample ID:	LCSD-40256	Samp Type:	LCSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/26/2016	RunNo:	87824
Client ID:	LCSS02	Batch ID:	40256	TestNo:	SW8270C	SW3510C		Analysis Date:	7/13/2016	SeqNo:	1707042

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.32	0.020	0.4000	0	79.8	41	115	0.2940	8.22	20	
2-Methylnaphthalene	0.31	0.020	0.4000	0	77.0	39	114	0.2898	6.05	20	G
Acenaphthene	0.31	0.020	0.4000	0	77.3	48	114	0.2892	6.73	20	
Acenaphthylene	0.31	0.020	0.4000	0	76.4	35	121	0.2830	7.69	20	
Anthracene	0.31	0.020	0.4000	0	76.8	53	119	0.2970	3.43	20	
Benz(a)anthracene	0.42	0.020	0.4000	0	105	59	120	0.4030	3.67	20	
Benzo(a)pyrene	0.30	0.020	0.4000	0	76.2	53	120	0.2936	3.82	20	
Benzo(b)fluoranthene	0.39	0.020	0.4000	0	96.3	53	126	0.4335	11.8	20	
Benzo(g,h,i)perylene	0.37	0.020	0.4000	0	93.4	44	128	0.3630	2.90	20	
Benzo(k)fluoranthene	0.32	0.020	0.4000	0	80.8	54	125	0.2641	20.1	20	R

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40256**

Sample ID:	**LCSD-40256**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/26/2016**	RunNo:	**87824**
Client ID:	**LCSS02**	Batch ID:	**40256**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**7/13/2016**	SeqNo:	**1707042**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.29	0.020	0.4000	0	72.5	57	120	0.2847	1.84	20	
Dibenzo(a,h)anthracene	0.39	0.020	0.4000	0	97.8	44	131	0.3823	2.33	20	
Fluoranthene	0.29	0.020	0.4000	0	73.2	58	120	0.2886	1.46	20	
Fluorene	0.33	0.020	0.4000	0	82.9	50	118	0.3190	3.94	20	
Indeno(1,2,3-cd)pyrene	0.31	0.020	0.4000	0	78.4	48	130	0.3047	2.90	20	
Naphthalene	0.28	0.020	0.4000	0	71.1	43	114	0.2560	10.6	20	G
Phenanthrene	0.39	0.020	0.4000	0	98.6	53	115	0.3795	3.86	20	G
Pyrene	0.35	0.020	0.4000	0	87.0	53	124	0.3446	0.967	20	
Surr: 2-Fluorobiphenyl	0.43		0.5000		86.9	53	106		0	20	
Surr: Nitrobenzene-d5	0.50		0.5000		100	55	111		0	20	
Surr: Terphenyl-d14	0.58		0.5000		116	58	132		0	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696498

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,6-Trichlorophenol	5.0	5.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	20	20									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitrophenol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Diethyl phthalate	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696498

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	5.0	5.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	40	125				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	50	110				
Surr: 2-Fluorophenol	11		25.00		44.0	20	110				
Surr: Nitrobenzene-d5	18		25.00		70.5	40	110				
Surr: Phenol-d5	7.7		25.00		30.7	20	130				
Surr: Terphenyl-d14	27		25.00		107	50	135				

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696499

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,2-Dichlorobenzene	9.8	5.0	20.00	0	49.1	32	111				
1,3-Dichlorobenzene	8.7	5.0	20.00	0	43.4	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	20	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**EPA_625**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87384**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1696499**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	37	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitrophenol	26	25	50.00	0	52.0	30	150				
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	1.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	1.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitrosodi-n-propylamine	14	5.0	20.00	0	70.6	49	119				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	30	150				
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	3.0	20.00	0	62.3	45	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696499

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	21	5.0	20.00	0	103	38	138				
Phenol	6.2	5.0	20.00	0	31.2	30	150				
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	50	130				Q
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696502

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	7.1	4.9	19.42	0	36.4	29	116				
1,2-Dichlorobenzene	7.1	4.9	19.42	0	36.7	32	111				
1,3-Dichlorobenzene	6.0	4.9	19.42	0	31.2	28	110				
1,4-Dichlorobenzene	6.3	4.9	19.42	0	32.3	29	112				
2,4,6-Trichlorophenol	14	3.9	19.42	0	71.9	50	125				
2,4-Dichlorophenol	12	4.9	19.42	0	63.1	47	121				
2,4-Dimethyl phenol	12	4.9	19.42	0	60.4	31	124				
2,4-Dinitrophenol	48	19	48.54	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.9	19.42	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.9	19.42	0	77.1	57	124				
2-Chloronaphthalene	9.7	4.9	19.42	0	49.7	40	116				
2-Chlorophenol	9.8	4.9	19.42	0	50.5	37	117				
2-Methylphenol (o-Cresol)	11	4.9	19.42	0	55.1	30	117				
2-Nitrophenol	11	4.9	19.42	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.42	0	84.5	27	129				J
3/4-Methylphenol [m/p-Cresol]	19	9.7	38.83	0	48.9	25	120				
4,6-Dinitro-2-methylphenol	19	9.7	19.42	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.7	4.9	19.42	0	49.8	55	124				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696502

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloro-3-methylphenol	14	4.9	19.42	0	72.8	52	119				
4-Chlorophenyl phenyl ether	11	4.9	19.42	0	55.8	53	121				
4-Nitrophenol	23	24	48.54	0	47.6	30	150				J
Bis(2-chloroethoxy) methane	11	4.9	19.42	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.2	0.97	19.42	0	47.5	43	118				
Bis(2-chloroisopropyl)ether	7.9	4.9	19.42	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.9	19.42	0	68.4	55	135				
Butyl benzyl phthalate	13	4.9	19.42	0	64.8	53	134				
Carbazole	19	4.9	19.42	0	97.2	60	122				
Di-n-butyl phthalate	13	4.9	19.42	0	65.0	59	127				
Di-n-octyl phthalate	14	4.9	19.42	0	72.2	51	140				
Diethyl phthalate	15	4.9	19.42	0	79.7	56	125				
Dimethyl phthalate	15	4.9	19.42	0	74.8	45	127				
Hexachlorobenzene	8.9	0.97	19.42	0	45.8	53	125				Q
Hexachlorobutadiene	5.0	4.9	19.42	0	25.9	22	124				
Hexachloroethane	5.6	4.9	19.42	0	28.9	21	115				
Isophorone	11	4.9	19.42	0	56.7	42	124				
N-Nitrosodi-n-propylamine	11	4.9	19.42	0	55.8	49	119				
N-Nitrosodimethylamine	4.9	4.9	19.42	0	25.4	30	150				Q
N-Nitrosodiphenylamine	13	4.9	19.42	0	65.0	51	123				
Nitrobenzene	9.4	2.9	19.42	0	48.5	45	121				
Pentachlorophenol	19	4.9	19.42	0	96.4	38	138				
Phenol	5.0	4.9	19.42	0	25.6	30	150				Q
Surr: 2,4,6-Tribromophenol	25		24.27		103	43	140				
Surr: 2-Fluorobiphenyl	15		24.27		62.3	44	119				
Surr: 2-Fluorophenol	8.1		24.27		33.3	19	119				
Surr: Nitrobenzene-d5	13		24.27		54.4	44	120				
Surr: Phenol-d5	6.6		24.27		27.3	50	130				Q
Surr: Terphenyl-d14	21		24.27		86.8	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696503

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.4	4.8	19.23	0	43.4	29	116	7.068	16.7	25	
1,2-Dichlorobenzene	8.6	4.8	19.23	0	45.0	32	111	7.117	19.4	25	
1,3-Dichlorobenzene	7.8	4.8	19.23	0	40.4	28	110	6.049	24.9	25	
1,4-Dichlorobenzene	8.0	4.8	19.23	0	41.6	29	112	6.262	24.3	25	
2,4,6-Trichlorophenol	16	3.8	19.23	0	80.6	50	125	13.95	10.5	25	
2,4-Dichlorophenol	14	4.8	19.23	0	72.3	47	121	12.25	12.6	25	
2,4-Dimethyl phenol	13	4.8	19.23	0	68.2	31	124	11.73	11.2	25	
2,4-Dinitrophenol	48	19	48.08	0	99.7	23	143	48.23	0.584	25	
2,4-Dinitrotoluene	18	4.8	19.23	0	91.6	57	128	17.43	1.07	25	
2,6-Dinitrotoluene	16	4.8	19.23	0	81.4	57	124	14.96	4.53	25	
2-Chloronaphthalene	11	4.8	19.23	0	59.0	40	116	9.650	16.1	25	
2-Chlorophenol	11	4.8	19.23	0	59.1	37	117	9.806	14.7	25	
2-Methylphenol (o-Cresol)	12	4.8	19.23	0	64.1	30	117	10.70	14.1	25	
2-Nitrophenol	13	4.8	19.23	0	68.2	47	123	11.20	15.8	25	
3,3´-Dichlorobenzidine	17	19	19.23	0	87.9	27	129	16.41	2.98	25	J
3/4-Methylphenol [m/p-Cresol]	22	9.6	38.46	0	57.2	25	120	18.98	14.8	25	
4,6-Dinitro-2-methylphenol	19	9.6	19.23	0	97.0	44	137	18.68	0.138	25	
4-Bromophenyl phenyl ether	10	4.8	19.23	0	54.2	55	124	9.660	7.69	25	Q
4-Chloro-3-methylphenol	16	4.8	19.23	0	80.8	52	119	14.13	9.58	25	
4-Chlorophenyl phenyl ether	12	4.8	19.23	0	62.4	53	121	10.83	10.4	25	
4-Nitrophenol	22	24	48.08	0	46.1	30	150	23.09	4.00	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.23	0	66.9	48	120	11.41	12.0	25	
Bis(2-chloroethyl) ether	11	0.96	19.23	0	56.6	43	118	9.214	16.5	25	
Bis(2-chloroisopropyl)ether	9.4	4.8	19.23	0	48.7	37	130	7.874	17.3	25	YZ
Bis(2-ethylhexyl) phthalate	12	4.8	19.23	0	61.6	55	135	13.27	11.4	25	
Butyl benzyl phthalate	12	4.8	19.23	0	61.4	53	134	12.57	6.20	25	
Carbazole	18	4.8	19.23	0	94.4	60	122	18.86	3.84	25	
Di-n-butyl phthalate	12	4.8	19.23	0	63.8	59	127	12.63	2.91	25	
Di-n-octyl phthalate	12	4.8	19.23	0	63.8	51	140	14.03	13.3	25	
Diethyl phthalate	16	4.8	19.23	0	81.0	56	125	15.48	0.652	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	EPA_625	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87384
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1696503

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phthalate	15	4.8	19.23	0	77.4	45	127	14.51	2.58	25	
Hexachlorobenzene	8.8	0.96	19.23	0	45.6	53	125	8.893	1.29	25	Q
Hexachlorobutadiene	6.2	4.8	19.23	0	32.1	22	124	5.029	20.4	25	
Hexachloroethane	7.0	4.8	19.23	0	36.6	21	115	5.612	22.4	25	
Isophorone	12	4.8	19.23	0	64.2	42	124	11.01	11.4	25	
N-Nitrosodi-n-propylamine	12	4.8	19.23	0	64.8	49	119	10.84	14.0	25	
N-Nitrosodimethylamine	6.7	4.8	19.23	0	34.8	30	150	4.942	30.1	25	R
N-Nitrosodiphenylamine	14	4.8	19.23	0	71.3	51	123	12.63	8.20	25	
Nitrobenzene	11	2.9	19.23	0	56.3	45	121	9.408	14.0	25	
Pentachlorophenol	18	4.8	19.23	0	94.2	38	138	18.72	3.33	25	
Phenol	5.6	4.8	19.23	0	29.2	30	150	4.971	12.3	25	Q
Surr: 2,4,6-Tribromophenol	26		24.04		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		24.04		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.8		24.04		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		24.04		64.4	44	120		0	25	
Surr: Phenol-d5	7.6		24.04		31.6	50	130		0	25	Q
Surr: Terphenyl-d14	20		24.04		85.0	50	134		0	25	

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697973

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697973

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UY
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**MB-40262**	Samp Type:	**MBLK**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87440**
Client ID:	**PBW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697973**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	5.0	5.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	43	140				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	44	119				
Surr: 2-Fluorophenol	11		25.00		44.0	19	119				
Surr: Nitrobenzene-d5	18		25.00		70.5	44	120				
Surr: Phenol-d5	7.7		25.00		30.7	30	130				J
Surr: Terphenyl-d14	27		25.00		107	50	134				

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87440**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697974**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	92.7	53	123				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	25	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	38	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**LCS-40262**	Samp Type:	**LCS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87440**
Client ID:	**LCSW**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697974**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Nitroaniline	19	5.0	20.00	0	96.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3-Nitroaniline	20	10	20.00	0	101	41	128				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chloroaniline [p-Chloroaniline]	16	10	20.00	0	82.0	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitroaniline	23	10	20.00	0	113	50	130				
4-Nitrophenol	26	25	50.00	0	52.0	50	130				
Benzyl alcohol	10	25	20.00	0	52.5	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	5.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Dibenzofuran	16	4.0	20.00	0	78.5	53	118				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	5.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitrosodi-n-propylamine	14	5.0	20.00	0	70.6	50	130				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	50	130				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697974

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	5.0	20.00	0	62.3	45	121				
Pentachlorophenol	21	5.0	20.00	0	103	35	138				
Phenol	6.2	5.0	20.00	0	31.2	50	130				Q
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	30	130				J
Surr: Terphenyl-d14	26		25.00		105	50	134				

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.9	4.8	19.05	0	36.4	29	116				
1,4-Dichlorobenzene	6.1	4.8	19.05	0	32.3	29	112				
2,4,5-Trichlorophenol	15	4.8	19.05	0	78.4	53	123				
2,4,6-Trichlorophenol	14	3.8	19.05	0	71.8	50	125				
2,4-Dichlorophenol	12	4.8	19.05	0	63.1	47	121				
2,4-Dimethyl phenol	12	4.8	19.05	0	60.4	31	124				
2,4-Dinitrophenol	47	24	47.62	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.8	19.05	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.8	19.05	0	77.0	57	124				
2-Chloronaphthalene	9.5	4.8	19.05	0	49.7	40	116				
2-Chlorophenol	9.6	4.8	19.05	0	50.5	38	117				
2-Methylphenol (o-Cresol)	10	4.8	19.05	0	55.1	30	117				
2-Nitroaniline	15	4.8	19.05	0	80.7	55	127				
2-Nitrophenol	11	4.8	19.05	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.05	0	84.5	27	129				J
3-Nitroaniline	16	9.5	19.05	0	86.0	41	128				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**1606422-008BMS**	Samp Type:	**MS**	Test Code:	**SW_8270A**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87440**
Client ID:	**ZZZZZZ**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697980**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
3/4-Methylphenol [m/p-Cresol]	19	9.5	38.10	0	48.9	25	120				
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.5	4.8	19.05	0	49.8	55	124				Q
4-Chloro-3-methylphenol	14	4.8	19.05	0	72.8	52	119				
4-Chloroaniline [p-Chloroaniline]	14	9.5	19.05	0	72.0	33	117				
4-Chlorophenyl phenyl ether	11	4.8	19.05	0	55.8	53	121				
4-Nitroaniline	19	9.5	19.05	0	98.7	50	130				
4-Nitrophenol	23	24	47.62	0	47.6	50	130				JQ
Benzyl alcohol	8.3	24	19.05	0	43.6	31	112				J
Bis(2-chloroethoxy) methane	11	4.8	19.05	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.0	4.8	19.05	0	47.5	43	118				
Bis(2-chloroisopropyl)ether	7.7	4.8	19.05	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.8	19.05	0	68.4	55	135				
Butyl benzyl phthalate	12	4.8	19.05	0	64.8	53	134				
Carbazole	19	4.8	19.05	0	97.2	60	122				
Di-n-butyl phthalate	12	4.8	19.05	0	65.0	59	127				
Di-n-octyl phthalate	14	4.8	19.05	0	72.3	51	140				
Dibenzofuran	11	3.8	19.05	0	59.3	53	118				
Diethyl phthalate	15	4.8	19.05	0	79.7	56	125				
Dimethyl phthalate	14	4.8	19.05	0	74.8	45	127				
Hexachlorobenzene	8.7	4.8	19.05	0	45.8	53	125				Q
Hexachlorobutadiene	4.9	4.8	19.05	0	25.9	22	124				
Hexachloroethane	5.5	4.8	19.05	0	28.9	21	115				
Isophorone	11	4.8	19.05	0	56.7	42	124				
N-Nitrosodi-n-propylamine	11	4.8	19.05	0	55.8	50	130				
N-Nitrosodimethylamine	4.8	4.8	19.05	0	25.4	50	130				Q
N-Nitrosodiphenylamine	12	4.8	19.05	0	65.0	51	123				
Nitrobenzene	9.2	4.8	19.05	0	48.5	45	121				
Pentachlorophenol	18	4.8	19.05	0	96.4	35	138				
Phenol	4.9	4.8	19.05	0	25.6	50	130				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697980

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6-Tribromophenol	25		23.81		103	43	140				
Surr: 2-Fluorobiphenyl	15		23.81		62.3	44	119				
Surr: 2-Fluorophenol	7.9		23.81		33.3	19	119				
Surr: Nitrobenzene-d5	13		23.81		54.4	44	120				
Surr: Phenol-d5	6.5		23.81		27.3	30	130				JQ
Surr: Terphenyl-d14	21		23.81		86.8	50	134				

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.3	4.8	19.05	0	43.5	29	116	6.933	17.7	25	
1,4-Dichlorobenzene	7.9	4.8	19.05	0	41.6	29	112	6.143	25.2	25	R
2,4,5-Trichlorophenol	16	4.8	19.05	0	84.0	53	123	14.93	6.90	25	
2,4,6-Trichlorophenol	15	3.8	19.05	0	80.6	50	125	13.69	11.5	25	
2,4-Dichlorophenol	14	4.8	19.05	0	72.3	47	121	12.02	13.5	25	
2,4-Dimethyl phenol	13	4.8	19.05	0	68.2	31	124	11.50	12.1	25	
2,4-Dinitrophenol	47	24	47.62	0	99.7	23	143	47.31	0.382	25	
2,4-Dinitrotoluene	17	4.8	19.05	0	91.6	57	128	17.10	2.04	25	
2,6-Dinitrotoluene	16	4.8	19.05	0	81.4	57	124	14.68	5.49	25	
2-Chloronaphthalene	11	4.8	19.05	0	59.0	40	116	9.467	17.0	25	
2-Chlorophenol	11	4.8	19.05	0	59.1	38	117	9.619	15.7	25	
2-Methylphenol (o-Cresol)	12	4.8	19.05	0	64.1	30	117	10.50	15.1	25	
2-Nitroaniline	17	4.8	19.05	0	88.4	55	127	15.37	9.16	25	
2-Nitrophenol	13	4.8	19.05	0	68.2	47	123	10.99	16.8	25	
3,3´-Dichlorobenzidine	17	19	19.05	0	87.9	27	129	16.10	3.94	25	J
3-Nitroaniline	19	9.5	19.05	0	98.6	41	128	16.37	13.7	25	
3/4-Methylphenol [m/p-Cresol]	22	9.5	38.10	0	57.2	25	120	18.62	15.7	25	
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	97.0	44	137	18.32	0.828	25	
4-Bromophenyl phenyl ether	10	4.8	19.05	0	54.2	55	124	9.476	8.65	25	Q
4-Chloro-3-methylphenol	15	4.8	19.05	0	80.8	52	119	13.86	10.5	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Chloroaniline [p-Chloroaniline]	16	9.5	19.05	0	81.6	33	117	13.72	12.4	25	
4-Chlorophenyl phenyl ether	12	4.8	19.05	0	62.4	53	121	10.62	11.3	25	
4-Nitroaniline	19	9.5	19.05	0	99.6	50	130	18.80	0.858	25	
4-Nitrophenol	22	24	47.62	0	46.1	50	130	22.65	3.03	25	JQ
Benzyl alcohol	9.9	24	19.05	0	52.2	31	112	8.305	18.0	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.05	0	66.9	48	120	11.19	13.0	25	
Bis(2-chloroethyl) ether	11	4.8	19.05	0	56.6	43	118	9.038	17.5	25	
Bis(2-chloroisopropyl)ether	9.3	4.8	19.05	0	48.7	37	130	7.724	18.3	25	YZ
Bis(2-ethylhexyl) phthalate	12	4.8	19.05	0	61.6	55	135	13.02	10.4	25	
Butyl benzyl phthalate	12	4.8	19.05	0	61.4	53	134	12.33	5.23	25	
Carbazole	18	4.8	19.05	0	94.4	60	122	18.50	2.87	25	
Di-n-butyl phthalate	12	4.8	19.05	0	63.8	59	127	12.39	1.94	25	
Di-n-octyl phthalate	12	4.8	19.05	0	63.8	51	140	13.76	12.3	25	
Dibenzofuran	13	3.8	19.05	0	66.4	53	118	11.30	11.2	25	
Diethyl phthalate	15	4.8	19.05	0	81.0	56	125	15.18	1.62	25	
Dimethyl phthalate	15	4.8	19.05	0	77.4	45	127	14.24	3.55	25	
Hexachlorobenzene	8.7	4.8	19.05	0	45.7	53	125	8.724	0.328	25	Q
Hexachlorobutadiene	6.1	4.8	19.05	0	32.1	22	124	4.933	21.4	25	
Hexachloroethane	7.0	4.8	19.05	0	36.6	21	115	5.505	23.4	25	
Isophorone	12	4.8	19.05	0	64.2	42	124	10.80	12.4	25	
N-Nitrosodi-n-propylamine	12	4.8	19.05	0	64.9	50	130	10.64	14.9	25	
N-Nitrosodimethylamine	6.6	4.8	19.05	0	34.8	50	130	4.848	31.0	25	RQ
N-Nitrosodiphenylamine	14	4.8	19.05	0	71.3	51	123	12.39	9.17	25	
Nitrobenzene	11	4.8	19.05	0	56.3	45	121	9.229	15.0	25	
Pentachlorophenol	18	4.8	19.05	0	94.2	35	138	18.36	2.36	25	
Phenol	5.6	4.8	19.05	0	29.2	50	130	4.876	13.3	25	Q
Surr: 2,4,6-Tribromophenol	25		23.81		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		23.81		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.7		23.81		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		23.81		64.4	44	120		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87440
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697981

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Phenol-d5	7.5		23.81		31.6	30	130		0	25	J
Surr: Terphenyl-d14	20		23.81		85.0	50	134		0	25	

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									U
Benzoic acid	25	25									UY
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitrosodi-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	27		25.00		108	43	140				
Surr: 2-Fluorobiphenyl	18		25.00		73.6	44	119				
Surr: 2-Fluorophenol	11		25.00		44.0	19	119				
Surr: Nitrobenzene-d5	18		25.00		70.5	44	120				
Surr: Phenol-d5	7.7		25.00		30.7	33	122				Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40262

Sample ID:	MB-40262	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	PBW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Terphenyl-d14	27		25.00		107	50	134				

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697666

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	9.3	5.0	20.00	0	46.6	29	116				
1,2-Dichlorobenzene	9.8	5.0	20.00	0	49.1	32	111				
1,3-Dichlorobenzene	8.7	5.0	20.00	0	43.4	28	110				
1,4-Dichlorobenzene	8.9	5.0	20.00	0	44.7	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	92.7	53	123				
2,4,6-Trichlorophenol	17	4.0	20.00	0	85.6	50	125				
2,4-Dichlorophenol	15	5.0	20.00	0	73.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	68.9	31	124				
2,4-Dinitrophenol	52	25	50.00	0	104	23	143				J
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128				
2,6-Dinitrotoluene	18	5.0	20.00	0	88.5	57	124				
2-Chloronaphthalene	13	5.0	20.00	0	65.6	40	116				
2-Chlorophenol	13	5.0	20.00	0	64.3	38	117				
2-Methylphenol (o-Cresol)	14	5.0	20.00	0	72.3	30	117				
2-Nitroaniline	19	5.0	20.00	0	96.9	55	127				
2-Nitrophenol	14	5.0	20.00	0	72.5	47	123				
3,3´-Dichlorobenzidine	20	20	20.00	0	100	27	129				
3-Nitroaniline	20	10	20.00	0	101	41	128				
3/4-Methylphenol [m/p-Cresol]	24	10	40.00	0	60.8	25	120				
4,6-Dinitro-2-methylphenol	21	10	20.00	0	105	44	137				
4-Bromophenyl phenyl ether	14	5.0	20.00	0	70.7	55	124				
4-Chloro-3-methylphenol	17	5.0	20.00	0	85.6	52	119				
4-Chloroaniline [p-Chloroaniline]	16	10	20.00	0	82.0	33	117				
4-Chlorophenyl phenyl ether	15	5.0	20.00	0	77.0	53	121				
4-Nitroaniline	23	10	20.00	0	113	50	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	LCS-40262	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	LCSW	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697666

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
4-Nitrophenol	26	25	50.00	0	52.0	50	130				
Benzoic acid	20	25	40.00	0	48.8	50	130				JQY
Benzyl alcohol	10	25	20.00	0	52.5	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	73.4	48	120				
Bis(2-chloroethyl) ether	13	5.0	20.00	0	64.2	43	118				
Bis(2-chloroisopropyl)ether	11	5.0	20.00	0	54.2	37	130				YZ
Bis(2-ethylhexyl) phthalate	19	5.0	20.00	0	97.5	55	135				
Butyl benzyl phthalate	17	5.0	20.00	0	87.1	53	134				
Carbazole	21	5.0	20.00	0	106	60	122				
Di-n-butyl phthalate	17	5.0	20.00	0	85.3	59	127				
Di-n-octyl phthalate	20	5.0	20.00	0	101	51	140				
Dibenzofuran	16	4.0	20.00	0	78.5	53	118				
Diethyl phthalate	18	5.0	20.00	0	91.5	56	125				
Dimethyl phthalate	17	5.0	20.00	0	85.8	45	127				
Hexachlorobenzene	13	5.0	20.00	0	66.4	53	125				
Hexachlorobutadiene	7.3	5.0	20.00	0	36.6	22	124				
Hexachloroethane	7.7	5.0	20.00	0	38.7	21	115				
Isophorone	14	5.0	20.00	0	69.1	42	124				
N-Nitrosodi-n-propylamine	14	5.0	20.00	0	70.6	50	130				
N-Nitrosodimethylamine	7.9	5.0	20.00	0	39.6	50	130				Q
N-Nitrosodiphenylamine	16	5.0	20.00	0	77.8	51	123				
Nitrobenzene	12	3.0	20.00	0	62.3	45	121				
Pentachlorophenol	21	5.0	20.00	0	103	35	138				
Phenol	6.2	5.0	20.00	0	31.2	34	121				Q
Surr: 2,4,6-Tribromophenol	30		25.00		118	43	140				
Surr: 2-Fluorobiphenyl	19		25.00		77.7	44	119				
Surr: 2-Fluorophenol	11		25.00		44.9	19	119				
Surr: Nitrobenzene-d5	19		25.00		74.1	44	120				
Surr: Phenol-d5	8.7		25.00		34.8	33	122				
Surr: Terphenyl-d14	26		25.00		105	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	**1606422-008BMS-2**	Samp Type:	**MS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/27/2016**	RunNo:	**87381**
Client ID:	**ZZZZZZ**	Batch ID:	**40262**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**6/30/2016**	SeqNo:	**1697669**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	6.9	4.8	19.05	0	36.4	29	116				
1,2-Dichlorobenzene	7.0	4.8	19.05	0	36.6	32	111				
1,3-Dichlorobenzene	5.9	4.8	19.05	0	31.2	28	110				
1,4-Dichlorobenzene	6.1	4.8	19.05	0	32.3	29	112				
2,4,5-Trichlorophenol	15	4.8	19.05	0	78.4	53	123				
2,4,6-Trichlorophenol	14	3.8	19.05	0	71.8	50	125				
2,4-Dichlorophenol	12	4.8	19.05	0	63.1	47	121				
2,4-Dimethyl phenol	12	4.8	19.05	0	60.4	31	124				
2,4-Dinitrophenol	47	24	47.62	0	99.4	23	143				
2,4-Dinitrotoluene	17	4.8	19.05	0	89.8	57	128				
2,6-Dinitrotoluene	15	4.8	19.05	0	77.0	57	124				
2-Chloronaphthalene	9.5	4.8	19.05	0	49.7	40	116				
2-Chlorophenol	9.6	4.8	19.05	0	50.5	38	117				
2-Methylphenol (o-Cresol)	10	4.8	19.05	0	55.1	30	117				
2-Nitroaniline	15	4.8	19.05	0	80.7	55	127				
2-Nitrophenol	11	4.8	19.05	0	57.7	47	123				
3,3´-Dichlorobenzidine	16	19	19.05	0	84.5	27	129				J
3-Nitroaniline	16	9.5	19.05	0	86.0	41	128				
3/4-Methylphenol [m/p-Cresol]	19	9.5	38.10	0	48.9	25	120				
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	96.2	44	137				
4-Bromophenyl phenyl ether	9.5	4.8	19.05	0	49.8	55	124				Q
4-Chloro-3-methylphenol	14	4.8	19.05	0	72.8	52	119				
4-Chloroaniline [p-Chloroaniline]	14	9.5	19.05	0	72.0	33	117				
4-Chlorophenyl phenyl ether	11	4.8	19.05	0	55.8	53	121				
4-Nitroaniline	19	9.5	19.05	0	98.7	50	130				
4-Nitrophenol	23	24	47.62	0	47.6	50	130				JQ
Benzoic acid	20	24	38.10	0	52.0	50	130				JY
Benzyl alcohol	8.3	24	19.05	0	43.6	31	112				J
Bis(2-chloroethoxy) methane	11	4.8	19.05	0	58.8	48	120				
Bis(2-chloroethyl) ether	9.0	4.8	19.05	0	47.5	43	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMS-2	Samp Type:	MS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697669

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-chloroisopropyl)ether	7.7	4.8	19.05	0	40.6	37	130				YZ
Bis(2-ethylhexyl) phthalate	13	4.8	19.05	0	68.4	55	135				
Butyl benzyl phthalate	12	4.8	19.05	0	64.8	53	134				
Carbazole	19	4.8	19.05	0	97.2	60	122				
Di-n-butyl phthalate	12	4.8	19.05	0	65.0	59	127				
Di-n-octyl phthalate	14	4.8	19.05	0	72.3	51	140				
Dibenzofuran	11	3.8	19.05	0	59.3	53	118				
Diethyl phthalate	15	4.8	19.05	0	79.7	56	125				
Dimethyl phthalate	14	4.8	19.05	0	74.8	45	127				
Hexachlorobenzene	8.7	4.8	19.05	0	45.8	53	125				Q
Hexachlorobutadiene	4.9	4.8	19.05	0	25.9	22	124				
Hexachloroethane	5.5	4.8	19.05	0	28.9	21	115				
Isophorone	11	4.8	19.05	0	56.7	42	124				
N-Nitrosodi-n-propylamine	11	4.8	19.05	0	55.8	50	130				
N-Nitrosodimethylamine	4.8	4.8	19.05	0	25.4	50	130				Q
N-Nitrosodiphenylamine	12	4.8	19.05	0	65.0	51	123				
Nitrobenzene	9.2	2.9	19.05	0	48.5	45	121				
Pentachlorophenol	18	4.8	19.05	0	96.4	35	138				
Phenol	4.9	4.8	19.05	0	25.6	34	121				Q
Surr: 2,4,6-Tribromophenol	25		23.81		103	43	140				
Surr: 2-Fluorobiphenyl	15		23.81		62.3	44	119				
Surr: 2-Fluorophenol	7.9		23.81		33.3	19	119				
Surr: Nitrobenzene-d5	13		23.81		54.4	44	120				
Surr: Phenol-d5	6.5		23.81		27.3	33	122				Q
Surr: Terphenyl-d14	21		23.81		86.8	50	134				

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	8.3	4.8	19.05	0	43.5	29	116	7.951	4.00	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	8.6	4.8	19.05	0	45.0	32	111	7.544	12.6	25	
1,3-Dichlorobenzene	7.7	4.8	19.05	0	40.4	28	110	6.777	12.7	25	
1,4-Dichlorobenzene	7.9	4.8	19.05	0	41.6	29	112	6.670	17.1	25	
2,4,5-Trichlorophenol	16	4.8	19.05	0	84.0	53	123	16.17	1.03	25	
2,4,6-Trichlorophenol	15	3.8	19.05	0	80.6	50	125	16.45	6.88	25	
2,4-Dichlorophenol	14	4.8	19.05	0	72.3	47	121	14.20	3.16	25	
2,4-Dimethyl phenol	13	4.8	19.05	0	68.2	31	124	12.62	2.88	25	
2,4-Dinitrophenol	47	24	47.62	0	99.7	23	143	56.35	17.1	25	
2,4-Dinitrotoluene	17	4.8	19.05	0	91.6	57	128	18.40	5.30	25	
2,6-Dinitrotoluene	16	4.8	19.05	0	81.4	57	124	15.63	0.811	25	
2-Chloronaphthalene	11	4.8	19.05	0	59.0	40	116	9.583	15.8	25	
2-Chlorophenol	11	4.8	19.05	0	59.1	38	117	10.36	8.31	25	
2-Methylphenol (o-Cresol)	12	4.8	19.05	0	64.1	30	117	10.98	10.6	25	
2-Nitroaniline	17	4.8	19.05	0	88.4	55	127	15.97	5.34	25	
2-Nitrophenol	13	4.8	19.05	0	68.2	47	123	13.42	3.16	25	
3,3´-Dichlorobenzidine	17	19	19.05	0	87.9	27	129	17.29	3.22	25	J
3-Nitroaniline	19	9.5	19.05	0	98.6	41	128	16.43	13.3	25	
3/4-Methylphenol [m/p-Cresol]	22	9.5	38.10	0	57.2	25	120	20.35	6.88	25	
4,6-Dinitro-2-methylphenol	18	9.5	19.05	0	97.0	44	137	23.24	22.9	25	
4-Bromophenyl phenyl ether	10	4.8	19.05	0	54.2	55	124	10.63	2.84	25	Q
4-Chloro-3-methylphenol	15	4.8	19.05	0	80.8	52	119	16.60	7.51	25	
4-Chloroaniline [p-Chloroaniline]	16	9.5	19.05	0	81.6	33	117	15.73	1.19	25	
4-Chlorophenyl phenyl ether	12	4.8	19.05	0	62.4	53	121	12.09	1.60	25	
4-Nitroaniline	19	9.5	19.05	0	99.6	50	130	16.95	11.2	25	
4-Nitrophenol	22	24	47.62	0	46.1	50	130	20.71	5.92	25	JQ
Benzoic acid	16	24	38.10	0	41.1	50	130	28.77	59.1	25	JRQY
Benzyl alcohol	9.9	24	19.05	0	52.2	31	112	10.97	9.83	25	J
Bis(2-chloroethoxy) methane	13	4.8	19.05	0	66.9	48	120	11.17	13.1	25	
Bis(2-chloroethyl) ether	11	4.8	19.05	0	56.6	43	118	9.058	17.3	25	
Bis(2-chloroisopropyl)ether	9.3	4.8	19.05	0	48.7	37	130	8.990	3.13	25	YZ

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40262**

Sample ID:	1606422-008BMSD-2	Samp Type:	MSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/27/2016	RunNo:	87381
Client ID:	ZZZZZZ	Batch ID:	40262	TestNo:	SW8270C	SW3510C		Analysis Date:	6/30/2016	SeqNo:	1697670

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Bis(2-ethylhexyl) phthalate	12	4.8	19.05	0	61.6	55	135	14.85	23.5	25	
Butyl benzyl phthalate	12	4.8	19.05	0	61.4	53	134	15.10	25.3	25	R
Carbazole	18	4.8	19.05	0	94.4	60	122	16.12	10.9	25	
Di-n-butyl phthalate	12	4.8	19.05	0	63.8	59	127	14.29	16.2	25	
Di-n-octyl phthalate	12	4.8	19.05	0	63.8	51	140	14.93	20.4	25	
Dibenzofuran	13	3.8	19.05	0	66.4	53	118	11.95	5.58	25	
Diethyl phthalate	15	4.8	19.05	0	81.0	56	125	16.39	6.03	25	
Dimethyl phthalate	15	4.8	19.05	0	77.4	45	127	15.30	3.65	25	
Hexachlorobenzene	8.7	4.8	19.05	0	45.7	53	125	9.544	9.30	25	Q
Hexachlorobutadiene	6.1	4.8	19.05	0	32.1	22	124	5.913	3.35	25	
Hexachloroethane	7.0	4.8	19.05	0	36.6	21	115	5.485	23.7	25	
Isophorone	12	4.8	19.05	0	64.2	42	124	11.50	6.10	25	
N-Nitrosodi-n-propylamine	12	4.8	19.05	0	64.9	50	130	11.21	9.66	25	
N-Nitrosodimethylamine	6.6	4.8	19.05	0	34.8	50	130	5.534	18.0	25	Q
N-Nitrosodiphenylamine	14	4.8	19.05	0	71.3	51	123	13.36	1.65	25	
Nitrobenzene	11	2.9	19.05	0	56.3	45	121	10.01	6.89	25	
Pentachlorophenol	18	4.8	19.05	0	94.2	35	138	19.35	7.60	25	
Phenol	5.6	4.8	19.05	0	29.2	34	121	4.456	22.2	25	Q
Surr: 2,4,6-Tribromophenol	25		23.81		107	43	140		0	25	
Surr: 2-Fluorobiphenyl	17		23.81		70.7	44	119		0	25	
Surr: 2-Fluorophenol	9.7		23.81		40.8	19	119		0	25	
Surr: Nitrobenzene-d5	15		23.81		64.4	44	120		0	25	
Surr: Phenol-d5	7.5		23.81		31.6	33	122		0	25	Q
Surr: Terphenyl-d14	20		23.81		85.0	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40280**

Sample ID:	1606601-008AMS	Samp Type:	MS	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	23		19.72		119	46	115				Q
Surr: Nitrobenzene-d5	28		19.72		142	44	125				Q
Surr: Terphenyl-d14	28		19.72		144	58	133				Q

Sample ID:	1606601-008AMSD	Samp Type:	MSD	Test Code:	SW_8270S-SIM	Units:	%Rec	Prep Date:	6/28/2016	RunNo:	87818
Client ID:	ZZZZZZ	Batch ID:	40280	TestNo:	SW8270C	SW3550C		Analysis Date:	8/2/2016	SeqNo:	1706920

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	25		19.41		129	46	115		0	25	Q
Surr: Nitrobenzene-d5	29		19.41		151	44	125		0	25	Q
Surr: Terphenyl-d14	29		19.41		150	58	133		0	25	Q

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40329**

Sample ID:	LCS-40329	Samp Type:	LCS	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	LCSW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693763

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	95.9	50	114				
Aroclor 1260	2.0	0.15	2.000	0	102	20	127				
Surr: Tetrachloro-m-xylene	0.073		0.1000		73.5	48	111				
Surr: Decachlorobiphenyl	0.10		0.1000		100	47	122				

Sample ID:	LCSD-40329	Samp Type:	LCSD	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	LCSS02	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693764

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	93.7	50	114	1.918	2.37	25	
Aroclor 1260	2.0	0.15	2.000	0	98.3	20	127	2.044	3.95	25	
Surr: Tetrachloro-m-xylene	0.079		0.1000		79.0	48	111		0	25	
Surr: Decachlorobiphenyl	0.094		0.1000		94.4	47	122		0	25	

Sample ID:	MB-40329	Samp Type:	MBLK	Test Code:	EPA_608_PCB	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87263
Client ID:	PBW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693765

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.15	0.15									U
Aroclor 1242	0.15	0.15									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.15	0.15									U
Aroclor 1260	0.15	0.15									U
Surr: Tetrachloro-m-xylene	0.088		0.1000		87.6	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		110	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40329**

Sample ID:	LCS-40329	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	LCSW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693976

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	95.9	46	129				
Aroclor 1260	2.0	0.20	2.000	0	102	45	134				
Surr: Tetrachloro-m-xylene	0.073		0.1000		73.5	40	135				
Surr: Decachlorobiphenyl	0.10		0.1000		100	40	135				

Sample ID:	LCSD-40329	Samp Type:	LCSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	LCSS02	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693977

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	93.7	46	129	1.918	2.37	25	
Aroclor 1260	2.0	0.20	2.000	0	98.3	45	134	2.044	3.95	25	
Surr: Tetrachloro-m-xylene	0.079		0.1000		79.0	40	135		0	25	
Surr: Decachlorobiphenyl	0.094		0.1000		94.4	40	135		0	25	

Sample ID:	MB-40329	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87275
Client ID:	PBW	Batch ID:	40329	TestNo:	SW8082	SW3510C		Analysis Date:	7/6/2016	SeqNo:	1693978

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.088		0.1000		87.6	40	135				
Surr: Decachlorobiphenyl	0.11		0.1000		110	40	135				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40370**

Sample ID:	LCS-40370	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	LCSW	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694484

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	410	2.5	400.0	0	104	85	117				G
Silver	420	1.5	400.0	0	105	85	116				

Sample ID:	MB-40370	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	PBW	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694485

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	2.5	2.5									UG
Silver	1.5	1.5									U

Sample ID:	1606833-015DMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	MP-MW01-01MS1	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694500

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	440	2.5	400.0	1.015	110	85	117				G
Silver	440	1.5	400.0	0	109	85	116				

Sample ID:	1606833-015DMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	MP-MW01-01SD1	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694516

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	430	2.5	400.0	1.015	108	85	117	440.4	1.96	20	G
Silver	430	1.5	400.0	0	106	85	116	436.0	2.55	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40440**

Sample ID:	MB-40440	Samp Type:	MBLK	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	PBW	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703565

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	50	50									U
Arsenic	1.5	1.5									U
Barium	25	25									U
Beryllium	1.0	1.0									UG
Cadmium	1.0	1.0									U
Calcium	1,000	1,000									U
Chromium	10	10									U
Cobalt	5.0	5.0									U
Copper	5.0	5.0									UG
Iron	200	200									U
Lead	1.0	1.0									U
Magnesium	500	500									U
Manganese	5.0	5.0									UG
Nickel	10	10									U
Potassium	500	500									U
Selenium	5.0	5.0									U
Sodium	500	500									U
Thallium	2.0	2.0									U
Vanadium	4.0	4.0									U
Zinc	50	50									U

Sample ID:	LCS-40440	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	LCSW	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703566

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	200	50	200.0	0	101	84	117				
Arsenic	200	1.5	200.0	0	102	84	116				
Barium	200	25	200.0	0	101	86	114				
Beryllium	190	1.0	200.0	0	95.9	83	121				G
Cadmium	200	1.0	200.0	0	98.5	87	115				
Calcium	2,100	1,000	2,000	0	104	87	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40440**

Sample ID:	LCS-40440	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	LCSW	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703566

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	200	10	200.0	0	100	85	116				
Cobalt	200	5.0	200.0	0	101	86	115				
Copper	210	5.0	200.0	0	103	85	118				G
Iron	2,100	200	2,000	0	103	87	118				
Lead	200	1.0	200.0	0	102	88	115				
Magnesium	2,100	500	2,000	0	103	83	118				
Manganese	200	5.0	200.0	0	100	87	115				G
Nickel	200	10	200.0	0	101	85	117				
Potassium	2,100	500	2,000	0	103	87	115				
Selenium	200	5.0	200.0	0	99.6	80	120				
Sodium	2,100	500	2,000	0	105	85	117				
Thallium	200	2.0	200.0	0	102	82	116				
Vanadium	200	4.0	200.0	0	99.0	86	115				
Zinc	200	50	200.0	0	97.9	83	119				

Sample ID:	1606631-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	ZZZZZZ	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,900	50	200.0	6,986	452	84	117				Q
Arsenic	190	1.5	200.0	0.9000	96.3	84	116				
Barium	260	25	200.0	57.00	102	86	114				
Beryllium	180	1.0	200.0	0.3450	90.2	83	121				G
Cadmium	190	1.0	200.0	0	96.7	87	115				
Calcium	35,000	1,000	2,000	33,940	43.5	87	118				Q
Chromium	190	10	200.0	11.20	90.8	85	116				
Cobalt	190	5.0	200.0	2.175	91.9	86	115				
Copper	190	5.0	200.0	3.295	93.5	85	118				G
Iron	13,000	200	2,000	11,370	89.6	87	118				
Lead	200	1.0	200.0	5.015	98.2	88	115				
Magnesium	8,900	500	2,000	7,020	92.2	83	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40440

Sample ID:	1606631-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	ZZZZZZ	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Manganese	470	5.0	200.0	280.6	95.2	87	115				G
Nickel	190	10	200.0	6.035	92.2	85	117				
Potassium	3,900	500	2,000	2,082	93.0	87	115				
Selenium	180	5.0	200.0	0	91.8	80	120				
Sodium	28,000	500	2,000	25,980	102	85	117				
Thallium	190	2.0	200.0	0.2600	97.3	82	116				
Vanadium	190	4.0	200.0	11.44	89.9	86	115				
Zinc	210	50	200.0	17.14	94.9	83	119				

Sample ID:	1606631-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	ZZZZZZ	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703571

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,000	50	200.0	6,986	495	84	117	7,890	1.08	20	Q
Arsenic	200	1.5	200.0	0.9000	99.8	84	116	193.6	3.53	20	
Barium	260	25	200.0	57.00	103	86	114	261.2	0.329	20	
Beryllium	180	1.0	200.0	0.3450	91.6	83	121	180.8	1.53	20	G
Cadmium	190	1.0	200.0	0	97.4	87	115	193.4	0.709	20	
Calcium	36,000	1,000	2,000	33,940	87.0	87	118	34,810	2.46	20	Q
Chromium	200	10	200.0	11.20	93.5	85	116	192.8	2.72	20	
Cobalt	190	5.0	200.0	2.175	93.4	86	115	186.0	1.63	20	
Copper	190	5.0	200.0	3.295	94.4	85	118	190.3	0.902	20	G
Iron	13,000	200	2,000	11,370	106	87	118	13,170	2.39	20	
Lead	200	1.0	200.0	5.015	97.5	88	115	201.3	0.650	20	
Magnesium	8,900	500	2,000	7,020	96.2	83	118	8,865	0.889	20	
Manganese	470	5.0	200.0	280.6	95.4	87	115	470.9	0.0976	20	G
Nickel	190	10	200.0	6.035	93.9	85	117	190.3	1.80	20	
Potassium	4,000	500	2,000	2,082	95.8	87	115	3,942	1.42	20	
Selenium	190	5.0	200.0	0	95.7	80	120	183.6	4.12	20	
Sodium	29,000	500	2,000	25,980	127	85	117	28,020	1.77	20	Q
Thallium	200	2.0	200.0	0.2600	97.7	82	116	194.8	0.433	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40440**

Sample ID:	**1606631-005DMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**7/15/2016**	RunNo:	**87684**
Client ID:	**ZZZZZZ**	Batch ID:	**40440**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/28/2016**	SeqNo:	**1703571**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Vanadium	200	4.0	200.0	11.44	92.4	86	115	191.3	2.56	20	
Zinc	210	50	200.0	17.14	95.3	83	119	207.0	0.369	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87115

Sample ID: **VOA11B LCS 07011** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/1/2016** RunNo: **87115**

Client ID: **LCSW** Batch ID: **R87115** TestNo: **SW8260B** Analysis Date: **7/1/2016** SeqNo: **1690458**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.9	1.0	10.00	0	88.9	78	124				
1,1,1-Trichloroethane	8.4	1.0	10.00	0	83.9	74	131				
1,1,2,2-Tetrachloroethane	8.4	1.0	10.00	0	83.9	71	121				
1,1,2-Trichloroethane	8.5	1.0	10.00	0	84.7	80	119				
1,1-Dichloroethane	9.3	2.0	10.00	0	93.4	77	125				
1,1-Dichloroethene	9.1	1.0	10.00	0	91.4	71	131				
1,2,3-Trichloropropane	8.4	1.0	10.00	0	84.3	73	122				
1,2-Dibromo-3-chloropropane	7.0	5.0	10.00	0	69.7	62	128				Y
1,2-Dibromoethane	8.8	1.0	10.00	0	87.5	77	121				
1,2-Dichloroethane	9.6	1.0	10.00	0	95.5	73	128				
1,2-Dichloropropane	9.1	1.0	10.00	0	90.9	78	122				
2-Butanone [MEK]	8.7	10	10.00	0	86.8	56	143				J
2-Hexanone	6.6	2.0	10.00	0	66.1	57	139				
Acetone	10	10	10.00	0	104	39	160				
Benzene	8.9	1.0	10.00	0	88.8	79	120				
Bromodichloromethane	8.9	1.0	10.00	0	89.0	79	125				
Bromoform	5.3	1.0	10.00	0	52.7	66	130				QYZ
Carbon disulfide	9.2	1.0	10.00	0	91.7	64	133				
Carbon tetrachloride	9.0	1.0	10.00	0	89.5	72	136				
Chlorobenzene	9.2	1.0	10.00	0	91.8	82	118				
Chlorodibromomethane	6.6	1.0	10.00	0	65.7	74	126				Q
Chloroethane	11	2.0	10.00	0	107	60	138				
Chloroform	9.1	1.0	10.00	0	90.8	79	124				
Chloromethane	8.6	1.0	10.00	0	85.5	50	139				
cis-1,2-Dichloroethene	9.3	1.0	10.00	0	93.0	78	123				
cis-1,3-Dichloropropene	8.2	1.0	10.00	0	82.0	75	124				
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	103	32	152				
Ethylbenzene	8.7	1.0	10.00	0	86.7	79	121				
Methylene chloride	12	5.0	10.00	0	117	74	124				
Styrene	8.6	1.0	10.00	0	85.6	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87115

Sample ID: **VOA11B LCS 07011** Samp Type: **LCS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/1/2016** RunNo: **87115**

Client ID: **LCSW** Batch ID: **R87115** TestNo: **SW8260B** Analysis Date: **7/1/2016** SeqNo: **1690458**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	8.6	1.0	10.00	0	85.8	74	129				
Toluene	8.6	1.0	10.00	0	85.8	80	121				
trans-1,2-Dichloroethene	9.6	1.0	10.00	0	95.7	75	124				
trans-1,3-Dichloropropene	8.1	1.0	10.00	0	81.0	73	127				
Trichloroethene	8.7	1.0	10.00	0	86.7	79	123				
Trichlorofluoromethane [Freon-11]	9.5	1.0	10.00	0	95.3	65	141				
Vinyl acetate	9.0	5.0	10.00	0	90.3	54	146				
Vinyl chloride	11	1.0	10.00	0	108	58	137				
Xylene (total)	26	3.0	30.00	0	85.7	79	121				
Surr: 4-Bromofluorobenzene	57		60.00		95.5	85	114				
Surr: Dibromofluoromethane	59		60.00		97.6	80	119				
Surr: Toluene-d8	56		60.00		93.4	89	112				

Sample ID: **VOA11B LCSD 0701** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/1/2016** RunNo: **87115**

Client ID: **LCSS02** Batch ID: **R87115** TestNo: **SW8260B** Analysis Date: **7/1/2016** SeqNo: **1690459**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.5	1.0	10.00	0	85.3	78	124	8.890	4.13	25	
1,1,1-Trichloroethane	8.3	1.0	10.00	0	82.6	74	131	8.390	1.56	25	
1,1,2,2-Tetrachloroethane	8.1	1.0	10.00	0	80.6	71	121	8.390	4.01	25	
1,1,2-Trichloroethane	8.8	1.0	10.00	0	88.2	80	119	8.470	4.05	25	
1,1-Dichloroethane	9.1	2.0	10.00	0	90.9	77	125	9.340	2.71	25	
1,1-Dichloroethene	9.0	1.0	10.00	0	89.7	71	131	9.140	1.88	25	
1,2,3-Trichloropropane	7.2	1.0	10.00	0	72.2	73	122	8.430	15.5	25	Q
1,2-Dibromo-3-chloropropane	6.0	5.0	10.00	0	59.7	62	128	6.970	15.5	25	QY
1,2-Dibromoethane	8.6	1.0	10.00	0	85.8	77	121	8.750	1.96	25	
1,2-Dichloroethane	9.9	1.0	10.00	0	98.6	73	128	9.550	3.19	25	
1,2-Dichloropropane	8.9	1.0	10.00	0	88.9	78	122	9.090	2.22	25	
2-Butanone [MEK]	9.3	10	10.00	0	92.8	56	143	8.680	6.68	25	J
2-Hexanone	6.9	2.0	10.00	0	69.0	57	139	6.610	4.29	25	
Acetone	11	10	10.00	0	110	39	160	10.42	5.87	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87115

Sample ID: **VOA11B LCSD 0701** Samp Type: **LCSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/1/2016** RunNo: **87115**

Client ID: **LCSS02** Batch ID: **R87115** TestNo: **SW8260B** Analysis Date: **7/1/2016** SeqNo: **1690459**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	9.0	1.0	10.00	0	90.3	79	120	8.880	1.68	25	
Bromodichloromethane	8.5	1.0	10.00	0	85.4	79	125	8.900	4.13	25	
Bromoform	5.6	1.0	10.00	0	56.1	66	130	5.270	6.25	25	QYZ
Carbon disulfide	8.6	1.0	10.00	0	85.9	64	133	9.170	6.53	25	
Carbon tetrachloride	8.5	1.0	10.00	0	85.4	72	136	8.950	4.69	25	
Chlorobenzene	8.9	1.0	10.00	0	89.3	82	118	9.180	2.76	25	
Chlorodibromomethane	6.2	1.0	10.00	0	61.9	74	126	6.570	5.96	25	Q
Chloroethane	11	2.0	10.00	0	105	60	138	10.74	2.16	25	
Chloroform	8.8	1.0	10.00	0	88.3	79	124	9.080	2.79	25	
Chloromethane	8.1	1.0	10.00	0	81.0	50	139	8.550	5.41	25	
cis-1,2-Dichloroethene	9.4	1.0	10.00	0	93.8	78	123	9.300	0.857	25	
cis-1,3-Dichloropropene	8.2	1.0	10.00	0	81.8	75	124	8.200	0.244	25	
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	100	32	152	10.26	2.17	25	
Ethylbenzene	8.2	1.0	10.00	0	82.1	79	121	8.670	5.45	25	
Methylene chloride	12	5.0	10.00	0	118	74	124	11.68	0.853	25	
Styrene	8.2	1.0	10.00	0	82.0	78	123	8.560	4.30	25	
Tetrachloroethene	8.3	1.0	10.00	0	82.6	74	129	8.580	3.80	25	
Toluene	8.5	1.0	10.00	0	84.7	80	121	8.580	1.29	25	
trans-1,2-Dichloroethene	9.4	1.0	10.00	0	94.0	75	124	9.570	1.79	25	
trans-1,3-Dichloropropene	7.9	1.0	10.00	0	79.0	73	127	8.100	2.50	25	
Trichloroethene	8.1	1.0	10.00	0	81.0	79	123	8.670	6.80	25	
Trichlorofluoromethane [Freon-11]	9.2	1.0	10.00	0	91.6	65	141	9.530	3.96	25	
Vinyl acetate	9.4	5.0	10.00	0	94.4	54	146	9.030	4.44	0	
Vinyl chloride	10	1.0	10.00	0	102	58	137	10.83	6.48	25	
Xylene (total)	24	3.0	30.00	0	81.4	79	121	25.71	5.11	25	
Surr: 4-Bromofluorobenzene	57		60.00		94.7	85	114		0	25	
Surr: Dibromofluoromethane	59		60.00		98.6	80	119		0	25	
Surr: Toluene-d8	56		60.00		93.8	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R87115**

Sample ID:	**VOA11B MBLK 0701**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**7/1/2016**	RunNo:	**87115**
Client ID:	**PBW**	Batch ID:	**R87115**	TestNo:	**SW8260B**			Analysis Date:	**7/1/2016**	SeqNo:	**1690461**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	10	10									U
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									UYZ
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	0.80	5.0									J
Styrene	1.0	1.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R87115**

Sample ID:	**VOA11B MBLK 0701**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**7/1/2016**	RunNo:	**87115**
Client ID:	**PBW**	Batch ID:	**R87115**	TestNo:	**SW8260B**			Analysis Date:	**7/1/2016**	SeqNo:	**1690461**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	45		50.00		89.5	85	114				
Surr: Dibromofluoromethane	48		50.00		95.4	80	119				
Surr: Toluene-d8	45		50.00		90.4	89	112				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87161

Sample ID:	VOA11B LCS 07051	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87161
Client ID:	LCSW	Batch ID:	R87161	TestNo:	SW8260B			Analysis Date:	7/5/2016	SeqNo:	1691897

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.8	1.0	10.00	0	88.3	78	124				
1,1,1-Trichloroethane	7.8	1.0	10.00	0	77.6	74	131				
1,1,2,2-Tetrachloroethane	8.6	1.0	10.00	0	85.6	71	121				
1,1,2-Trichloroethane	8.5	1.0	10.00	0	85.2	80	119				
1,1-Dichloroethane	8.9	2.0	10.00	0	89.3	77	125				
1,1-Dichloroethene	8.4	1.0	10.00	0	83.7	71	131				
1,2,3-Trichloropropane	8.2	1.0	10.00	0	81.5	73	122				
1,2-Dibromo-3-chloropropane	6.8	5.0	10.00	0	68.0	62	128				Y
1,2-Dibromoethane	8.7	1.0	10.00	0	86.9	77	121				
1,2-Dichloroethane	9.3	1.0	10.00	0	93.0	73	128				
1,2-Dichloropropane	8.7	1.0	10.00	0	87.2	78	122				
2-Butanone [MEK]	8.6	10	10.00	0	85.6	56	143				J
2-Hexanone	7.0	2.0	10.00	0	70.3	57	139				
Acetone	10	10	10.00	0	102	39	160				
Benzene	9.0	1.0	10.00	0	89.9	79	120				
Bromodichloromethane	8.7	1.0	10.00	0	87.2	79	125				
Bromoform	5.9	1.0	10.00	0	58.6	66	130				QZ
Carbon disulfide	8.4	1.0	10.00	0	84.1	64	133				
Carbon tetrachloride	8.5	1.0	10.00	0	84.7	72	136				
Chlorobenzene	9.0	1.0	10.00	0	90.3	82	118				
Chlorodibromomethane	6.8	1.0	10.00	0	67.7	74	126				Q
Chloroethane	10	2.0	10.00	0	99.6	60	138				
Chloroform	8.9	1.0	10.00	0	89.2	79	124				
Chloromethane	10	1.0	10.00	0	99.7	50	139				
cis-1,2-Dichloroethene	9.1	1.0	10.00	0	91.2	78	123				
cis-1,3-Dichloropropene	8.4	1.0	10.00	0	83.9	75	124				
Dichlorodifluoromethane [Freon-12]	8.1	1.0	10.00	0	81.3	32	152				
Ethylbenzene	8.4	1.0	10.00	0	83.6	79	121				
Methylene chloride	11	5.0	10.00	0	109	74	124				
Styrene	8.7	1.0	10.00	0	86.6	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87161

Sample ID:	VOA11B LCS 07051	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87161
Client ID:	LCSW	Batch ID:	R87161	TestNo:	SW8260B			Analysis Date:	7/5/2016	SeqNo:	1691897

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	8.4	1.0	10.00	0	83.9	74	129				
Toluene	8.4	1.0	10.00	0	84.3	80	121				
trans-1,2-Dichloroethene	9.3	1.0	10.00	0	92.7	75	124				
trans-1,3-Dichloropropene	8.2	1.0	10.00	0	82.2	73	127				
Trichloroethene	8.8	1.0	10.00	0	88.3	79	123				
Trichlorofluoromethane [Freon-11]	8.2	1.0	10.00	0	82.5	65	141				
Vinyl acetate	9.7	5.0	10.00	0	96.6	54	146				
Vinyl chloride	9.6	1.0	10.00	0	95.8	58	137				
Xylene (total)	25	3.0	30.00	0	83.8	79	121				
Surr: 4-Bromofluorobenzene	56		60.00		93.6	85	114				
Surr: Dibromofluoromethane	58		60.00		96.0	80	119				
Surr: Toluene-d8	55		60.00		92.4	89	112				

Sample ID:	VOA11B MBLK2 070	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87161
Client ID:	PBW	Batch ID:	R87161	TestNo:	SW8260B			Analysis Date:	7/5/2016	SeqNo:	1691899

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	1.6	10									J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R87161**

Sample ID:	**VOA11B MBLK2 070**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**7/5/2016**	RunNo:	**87161**
Client ID:	**PBW**	Batch ID:	**R87161**	TestNo:	**SW8260B**			Analysis Date:	**7/5/2016**	SeqNo:	**1691899**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									UZ
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	0.87	1.0									JT
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	0.86	5.0									J
Styrene	1.0	1.0									U
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	45		50.00		90.6	85	114				
Surr: Dibromofluoromethane	47		50.00		93.7	80	119				
Surr: Toluene-d8	45		50.00		89.8	89	112				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87161

Sample ID:	1606905-005AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/5/2016	RunNo:	87161
Client ID:	ZZZZZZ	Batch ID:	R87161	TestNo:	SW8260B			Analysis Date:	7/5/2016	SeqNo:	1691919

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	8.1	1.0	10.00	0	80.8	78	124				
1,1,1-Trichloroethane	9.6	1.0	10.00	0	96.1	74	131				
1,1,2,2-Tetrachloroethane	8.0	1.0	10.00	0	80.3	71	121				
1,1,2-Trichloroethane	8.9	1.0	10.00	0	89.0	80	119				
1,1-Dichloroethane	11	2.0	10.00	0	107	77	125				
1,1-Dichloroethene	11	1.0	10.00	0	109	71	131				
1,2,3-Trichloropropane	6.7	1.0	10.00	0	66.7	73	122				Q
1,2-Dibromo-3-chloropropane	4.8	5.0	10.00	0	48.1	62	128				JQY
1,2-Dibromoethane	8.6	1.0	10.00	0	86.2	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	107	73	128				
1,2-Dichloropropane	9.4	1.0	10.00	0	94.5	78	122				
2-Butanone [MEK]	9.8	10	10.00	0	98.2	56	143				J
2-Hexanone	6.8	2.0	10.00	0	68.4	57	139				
Acetone	12	10	10.00	2.080	98.9	39	160				
Benzene	11	1.0	10.00	0	106	79	120				
Bromodichloromethane	8.7	1.0	10.00	0	86.9	79	125				
Bromoform	5.1	1.0	10.00	0	51.0	66	130				QZ
Carbon disulfide	9.9	1.0	10.00	0	98.6	64	133				
Carbon tetrachloride	11	1.0	10.00	0	106	72	136				
Chlorobenzene	9.0	1.0	10.00	0	89.5	82	118				
Chlorodibromomethane	6.6	1.0	10.00	0	65.8	74	126				Q
Chloroethane	13	2.0	10.00	0	132	60	138				
Chloroform	10	1.0	10.00	0	102	79	124				
Chloromethane	8.6	1.0	10.00	0.4800	80.9	50	139				B
cis-1,2-Dichloroethene	11	1.0	10.00	0	106	78	123				
cis-1,3-Dichloropropene	7.7	1.0	10.00	0	76.8	75	124				
Dichlorodifluoromethane [Freon-12]	10	1.0	10.00	0	105	32	152				
Ethylbenzene	8.4	1.0	10.00	0	83.9	79	121				
Methylene chloride	12	5.0	10.00	0.5100	120	74	124				
Styrene	8.2	1.0	10.00	0	81.5	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87161

Sample ID: **1606905-005AMS** Samp Type: **MS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/5/2016** RunNo: **87161**

Client ID: **ZZZZZZ** Batch ID: **R87161** TestNo: **SW8260B** Analysis Date: **7/5/2016** SeqNo: **1691919**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	8.7	1.0	10.00	0	86.6	74	129				
Toluene	9.1	1.0	10.00	0	91.4	80	121				
trans-1,2-Dichloroethene	11	1.0	10.00	0	110	75	124				
trans-1,3-Dichloropropene	7.7	1.0	10.00	0	76.6	73	127				
Trichloroethene	9.1	1.0	10.00	0	91.0	79	123				
Trichlorofluoromethane [Freon-11]	11	1.0	10.00	0	107	65	141				
Vinyl acetate	9.5	5.0	10.00	0	94.7	54	146				
Vinyl chloride	13	1.0	10.00	0	126	58	137				
Xylene (total)	24	3.0	30.00	0	81.6	79	121				
Surr: 4-Bromofluorobenzene	56		60.00		92.6	85	114				
Surr: Dibromofluoromethane	66		60.00		110	80	119				
Surr: Toluene-d8	58		60.00		97.2	89	112				

Sample ID: **1606905-005AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/5/2016** RunNo: **87161**

Client ID: **ZZZZZZ** Batch ID: **R87161** TestNo: **SW8260B** Analysis Date: **7/5/2016** SeqNo: **1691920**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.2	1.0	10.00	0	91.9	78	124	8.080	12.9	25	
1,1,1-Trichloroethane	10	1.0	10.00	0	103	74	131	9.610	7.32	25	
1,1,2,2-Tetrachloroethane	9.0	1.0	10.00	0	90.0	71	121	8.030	11.4	25	
1,1,2-Trichloroethane	9.5	1.0	10.00	0	95.2	80	119	8.900	6.73	25	
1,1-Dichloroethane	12	2.0	10.00	0	117	77	125	10.71	8.75	25	
1,1-Dichloroethene	12	1.0	10.00	0	116	71	131	10.87	6.67	25	
1,2,3-Trichloropropane	8.5	1.0	10.00	0	84.9	73	122	6.670	24.0	25	
1,2-Dibromo-3-chloropropane	6.6	5.0	10.00	0	66.2	62	128	4.810	31.7	25	RY
1,2-Dibromoethane	9.4	1.0	10.00	0	93.9	77	121	8.620	8.55	25	
1,2-Dichloroethane	11	1.0	10.00	0	112	73	128	10.66	5.12	25	
1,2-Dichloropropane	10	1.0	10.00	0	103	78	122	9.450	8.51	25	
2-Butanone [MEK]	11	10	10.00	0	106	56	143	9.820	7.36	25	
2-Hexanone	7.7	2.0	10.00	0	77.1	57	139	6.840	12.0	25	
Acetone	13	10	10.00	2.080	110	39	160	11.97	9.01	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87161

Sample ID: **1606905-005AMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **7/5/2016** RunNo: **87161**

Client ID: **ZZZZZZ** Batch ID: **R87161** TestNo: **SW8260B** Analysis Date: **7/5/2016** SeqNo: **1691920**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	11	1.0	10.00	0	113	79	120	10.63	5.76	25	
Bromodichloromethane	9.7	1.0	10.00	0	97.3	79	125	8.690	11.3	25	
Bromoform	5.8	1.0	10.00	0	58.5	66	130	5.100	13.7	25	QZ
Carbon disulfide	11	1.0	10.00	0	106	64	133	9.860	7.14	25	
Carbon tetrachloride	11	1.0	10.00	0	115	72	136	10.57	8.17	25	
Chlorobenzene	9.8	1.0	10.00	0	97.9	82	118	8.950	8.96	25	
Chlorodibromomethane	7.1	1.0	10.00	0	71.2	74	126	6.580	7.88	25	Q
Chloroethane	14	2.0	10.00	0	140	60	138	13.18	5.82	25	Q
Chloroform	11	1.0	10.00	0	113	79	124	10.16	10.4	25	
Chloromethane	9.6	1.0	10.00	0.4800	91.0	50	139	8.570	11.1	25	B
cis-1,2-Dichloroethene	11	1.0	10.00	0	113	78	123	10.63	5.93	25	
cis-1,3-Dichloropropene	8.7	1.0	10.00	0	86.8	75	124	7.680	12.2	25	
Dichlorodifluoromethane [Freon-12]	11	1.0	10.00	0	113	32	152	10.50	7.07	25	
Ethylbenzene	9.3	1.0	10.00	0	92.8	79	121	8.390	10.1	25	
Methylene chloride	14	5.0	10.00	0.5100	130	74	124	12.50	7.69	25	Q
Styrene	9.2	1.0	10.00	0	92.3	78	123	8.150	12.4	25	
Tetrachloroethene	9.4	1.0	10.00	0	94.1	74	129	8.660	8.30	25	
Toluene	10	1.0	10.00	0	99.8	80	121	9.140	8.79	25	
trans-1,2-Dichloroethene	12	1.0	10.00	0	118	75	124	11.05	6.40	25	
trans-1,3-Dichloropropene	8.5	1.0	10.00	0	85.2	73	127	7.660	10.6	25	
Trichloroethene	10	1.0	10.00	0	100	79	123	9.100	9.52	25	
Trichlorofluoromethane [Freon-11]	12	1.0	10.00	0	120	65	141	10.72	10.9	25	
Vinyl acetate	10	5.0	10.00	0	104	54	146	9.470	9.55	25	
Vinyl chloride	13	1.0	10.00	0	135	58	137	12.61	6.74	25	
Xylene (total)	28	3.0	30.00	0	91.8	79	121	24.48	11.7	25	
Surr: 4-Bromofluorobenzene	57		60.00		95.5	85	114		0	25	
Surr: Dibromofluoromethane	67		60.00		111	80	119		0	25	
Surr: Toluene-d8	59		60.00		98.8	89	112		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606833

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

160833

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06-22/16-02
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	pH except 2	Comment
FieldQC	—	—	TB	1	TB-GW-062016-03	06/20/16	0820	WQ	3	073	3											1
FieldQC	—	—	TB	1	TB-GW-062116-01	06/21/16	0800	WQ	3		3											2
H17-SB03	—	—	N	1	H17-SB03-GW	6/21/16	0930	WG	10		3			4			2	1			14	3
203-SB02	—	—	N	1	203-SB02-GW	6/20/16	1302	WG	3		3			3			2	1				4
203-SB03	—	—	N	1	203-SB03-GW	6/20/16	1525	WG	3		3			3			2	1				5
203-SB04	—	—	N	1	203-SB04-GW	6/20/16	1400	WG	3		3			2				1				6
203-SB05	—	—	N	1	203-SB05-GW	6/20/16	1000	WG	3		3			2				1				7
WDS-SB18	—	—	N	1	WDS-SB18-GW	6/20/16	0935	WG	3		3			2			2	1				8
WDS-SB19	—	—	N	1	WDS-SB19-GW	6/20/16	1052	WG	3	↓	3			2			1	1				9

1. Relinquished By / Company: AECOM	Date: 6/22/16	Time: 1200	1. Received By / Company: FedEx
2. Relinquished By / Company	Date	Time	2. Received By / Company: RTI
3. Relinquished By / Company	Date	Time	3. Received By / Company

Date	Time
6/22/16	1200
6/23/16	700
Date	Time

Comments: VOCs and H-17

Shipment Method/Airbill No.: 8103 0202 5306

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLE

Bubba-12

Chain of Custody

160683

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-01
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	pH Accept?	Comment
H14-SB01	-	-	N	1	H14-SB01-GW	6/21/16	1250	WG	3	072						2		1			1x	(10)
H14-SB03	-	-	N	1	H14-SB03-GW	↓	1200	WG	3	↓						2		1			1x	
Field QC	-	-	EB	1	EB-062116-01	↓	1600	WQ	2	↓							2					collected from PCB concrete chip sample hammered on

1. Relinquished By / Company: AECOM	Date: 6/22/16	Time: 1200	1. Received By / Company: Fed Ex to Fed Ex	Date: 6/22/16 / Time: 1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date / Time
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date: 6/23/16 / Time: rec

Comments: ACC H14 and EB

Shipment Method/Airbill No.: 8103 0202 5791

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Serenity 16

Chain of Custody

1606833

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-08
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
FIELDQC	-	-	TB	1	TB-GW-062216-01	06/22/16	0800	WQ	3	79	3											13
MP-SB03	-	-	N	1	MP-SB03-GW	06/22/16	0935	WG	9	79	3*			4			2			6*		14 * MS/MSD
MP-MW01	-	-	N	1	MP-MW01-01	06/22/16	1000	WG	3	79	3*			4			2	1		2		15
					MP-SB03-GWDUP	6/22/16	09:35	WG												2		16 - COC 062216-09
					EFO-SB01-GW	6/22	09:45	WG												2		17 - COC 062216-10

1. Relinquished By / Company	Kelly Lutton / AECOM	Date 6/22/16	Time 1245	1. Received By / Company	Transfer to FedEx
2. Relinquished By / Company		Date	Time	2. Received By / Company	Fedex
3. Relinquished By / Company		Date	Time	3. Received By / Company	

Comments	Shipment Method/Airbill No.	Date	Time
	Fed Ex Air # 8103 0202 4620	6/22/16	1245
		6/22/16	0000
		Date	Time

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLE

* 1 VIAL Rec'd broken for VOC Analysis

Blue VOC

1606833

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-01
Batch May16

Database Information					Other Sample Information						Analysis												
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	pH (Except ?)	Comment
H14-SB01	-	-	N	1	H14-SB01-GW	6/21/16	1250	WG	3	072						2		1			1X	
H14-SB03	-	-	N	1	H14-SB03-GW	↓	1200	WG	3	↓						2		1			1X	
Field QC	-	-	EB	1	EB-062116-01	↓	1600	WQ	2	↓							2					collected from PCB concrete chip sample location drilled on

1. Relinquished By / Company: AECOM	Date: 6/22/16	Time: 1200	1. Received By / Company: Fed Ex	Date: 6/22/16 / Time: 1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date: 6/23/16 / Time: 1000
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date / Time

Comments: ACC H-14 and EB

Shipment Method/Airbill No.: 8105 0202 5791

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Serenity 16

1606833

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-08
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
FIELDQC	-	-	TB	1	TB-GW-062216-01	06/22/16	0800	WQ	3	79	3											
MP-SB03	-	-	N	1	MP-SB03-GW	06/22/16	0935	WG	9	79	3*			4			2					
MP-MW01	-	-	N	1	MP-MW01-01	06/22/16	1000	WG	3	79	3											

1. Relinquished By / Company	Kelly Lunn / AECOM	Date 6/22/16	Time 1245	1. Received By / Company	transfer to FedEX	Date 6/22/16	Time 1245
2. Relinquished By / Company		Date	Time	2. Received By / Company	[illegible] RTI	Date 6/22/16	Time 1000
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. Fed Ex Air # 8103 0202 4620

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

*1 Vial broken in transit

Blue VOC

1606 833

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: dc-22/16-02
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	pH (Except 2)	Comment
Field QC	–	–	TB	1	TB-GW-062016-03	06/20/16	0820	WQ	3	073	3											
Field QC	–	–	TB	1	TB-GW-062116-01	06/21/16	0800	WQ	3		3											
H17-SB03	–	–	N	1	H17-SB03-GW	6/21/16	0930	WG	10		3			4			2	1			1Y	
203-SB02	–	–	N	1	203-SB02-GW	6/20/16	1302	WG	3		3											
203-SB03	–	–	N	1	203-SB03-GW	6/20/16	1525	WG	3		3											
203-SB04	–	–	N	1	203-SB04-GW	6/20/16	1400	WG	3		3											
203-SB05	–	–	N	1	203-SB05-GW	6/20/16	1000	WG	3		3											
WDS-SB18	–	–	N	1	WDS-SB18-GW	6/20/16	0935	WG	3		3											
WDS-SB19	–	–	N	1	WDS-SB19-GW	6/20/16	1052	WG	3		3											

1. Relinquished By / Company: AECOM	Date: 6/22/16	Time: 1000	1. Received By / Company: RTI to FedEx
2. Relinquished By / Company	Date	Time	2. Received By / Company: RTI
3. Relinquished By / Company	Date	Time	3. Received By / Company

		1. Received By / Company	Date: 6/22/16 Time: 1200
		2. Received By / Company	Date: 6/23/16 Time: 700
		3. Received By / Company	Date Time

Comments: VOCs and H-17

Shipment Method/Airbill No.: 8163 0202 3306

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Bubba-12

1606833

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-10
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
MP-SB03	-	-	N	1	MP-SB03-GW	06/22/16	0935	WG	2	81										2		
EFO-SB01	-	-	N	1	EFO-SB01-GW	06/22/16	0945	WG	2	81										2		
MP-MW01	-	-	N	1	MP-MW01-01	06/22/16	1000	WG	2	81										2		

	Date	Time		Date	Time
1. Relinquished By / Company: Kelly Lunn / AECOM	6/22/16	1245	1. Received By / Company: Transfer to Fed Ex	6/22/16	1245
2. Relinquished By / Company	Date	Time	2. Received By / Company: Matthew Wilson / RTI	6/23/16	1000
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No.: Fed Ex # 8103 0202 4608

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Green Arrow

160C6833

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-09
Batch May16

Database Information					Other Sample Information						Analysis											
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)		Comment
MP-SB03	-	-	FD	1	MP-SB03-GWDUP	06/22/16	0935	WG	2	80										2		
MP-SB03	-	-	MS	1	MP-SB03-GWMS	06/22/16	0935	WG	2	80										2		
MP-SB03	-	-	SD	1	MP-SB03-GWMSD	06/22/16	0935	WG	2	80										2		

1. Relinquished By / Company: Kelly Little / AECOM	Date: 6/22/16	Time: 1245	1. Received By / Company: Transport to FedEx	Date: 6/22/16	Time: 1245
2. Relinquished By / Company	Date	Time	2. Received By / Company: Laura Griffin / RTI	Date: 6/23/16	Time: 0700
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No.: FedEx - 8103 0202 4619

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Blue Four

1606833

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-06
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	24 hr Analysis	Comment
WDS-SB18	-	-	N	1	WDS-SB18-GW	06/20/16	0935	WG	5	77				2			2	1			Y	
WDS-SB19	-	-	N	1	WDS-SB19-GW	06/20/16	1052	WG	4	77				2			1	1			Y	

dm

		Date	Time		Date	Time
1. Relinquished By / Company	AECOM	6/22/16	1200	1. Received By / Company	Fed Ex	6/22/16	1200
2. Relinquished By / Company		Date	Time	2. Received By / Company	RTI	6/23/16	0900
3. Relinquished By / Company		Date	Time	3. Received By / Company		Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5340

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

RTI-1)

1606833

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-05
Batch May16

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	pH w/Accept?	Comment
203-SB04	-	-	N	1	203-SB04-GW	06/20/16	1400	WG	3	76				2				1			Y	
203-SB05	-	-	N	1	203-SB05-GW	06/20/16	1000	WG	3	76				2				1			Y	1 of SVOC bottle ½ liter ↓all volume that could be obtained, no more bottles will be sent

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
AECOM	6/22/16	1210	FedEx	6/22/16	1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			RTI	6/23/16	1100
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5339

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

RTI-22

1606833

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 06216-04
Batch May16

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	pH (Accept ?)	Comment
203-SB03	-	-	N	1	203-SB03-GW	6/20/16	1525	WG	6	75				3			2	1			14	*1 of the SVOC liter only 1/4 full all the volume that could be obtained, no more bottles will be sent
																	2					

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time		
AECOM	6/22/16	1200	Fed Ex	6/22/16	1200		
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time		
			Phillip Miller / RTI	6/23/16	700		
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time		

Comments

Shipment Method/Airbill No. 8103 0262 5328

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

DP 43

1606833

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-03
Batch May16

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	PH w/Accept?	Comment
203-SB02	-	-	N	1	203-SB02-GW	6/20/16	~~1525~~ 1302	WG	6	074				3*			2	1			14	*1-L filter only filled 1/3

Qm

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time		
[illegible] AECOM	6/22/16	1200	Peter Fedyk	6/22/16	1200		
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time		
			[illegible] RTI	6/23/16	900		
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time		

Comments

Shipment Method/Airbill No. 8103 0202 5317

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

RTI - FH

1606833

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	Point of Contact / Phone No.
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / State / Zip Code	Site Contact / Phone No.
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Chain of Custody: 062216-11
Batch May16

Database Information / Other Sample Information

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	pH Accept?	Comment
MP-MW01	-	-	N	1	MP-MW01-01	06/22/16	1000	WG	7	82				4			2	1			Y	

1. Relinquished By / Company: Kelly Allen - AECOM	Date: 6/22/16	Time: 1245	1. Received By / Company: Transfer to FedEx	Date: 6/24/16 Time: 1245
2. Relinquished By / Company	Date	Time	2. Received By / Company: [illegible] / RTI	Date: 6/25/16 Time: 1000
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date Time

Comments

Shipment Method/Airbill No.: Fed Ex - 8103 0202 4593

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

Little Mingo

Coolers Serenity Rd
Cooler #073
Cooler Temp Blank 1.2°C

CUSTODY SEALS

Date 6/22/16

Signature Kelly Lewis

FedEx
TRK# 0215 8103 0202 5291

THU - 23 JUN AA
STANDARD OVERNIGHT

48150
MI-US
DTW

ET CFAA

FID 552995 22JUN16 WSHA 539C2/30BD/6A08

Cooler 023

Cooler ID: Bubba-12

Cooler Temp Blk: 4.6°C

FedEx
TRK# 0215 8103 0202 5306

THU - 23 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 552995 22JUN16 WSHA 539C2/30BD/6A08

CUSTODY SEALS

Date 6/22/16

Signature Kerry Lewis

Cooler
ID: RTI-FH
Cooler #074
Cooler Temp Blank 1.0°C

CUSTODY SEALS
Date 6/22/16
Signature Kim Lewis

Cooler #075
Cooler ID: DP43
Cooler Temp Blank 1.2c

CUSTODY SEALS
Date 6/22/16
Signature

FedEx
TRK# 0215 8103 0202 5328

THU - 23 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 552995 22JUN16 WSHA 539C2/30BD/6A08

Cooler # 016
Cooler ID: RTI-22
Cooler Temp Blk 3.2°C

CUSTODY SEALS

Date 6/22/16

Signature Kelly Lewis

FedEx TRK# 0215 8103 0202 5339

THU - 23 JUN AA
STANDARD OVERNIGHT

48150
MI-US
DTW

ET CFAA

FID 552995 22JUN16 WSHA 539C2/30BD/6A08

Cooler ID: RTI-11
Cooler # 077
Temp Blank 2.6°C

FedEx
TRK# 0215 8103 0202 5340

THU - 23 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 552995 22JUN16 WSHA 539C2/30BD/6A08

CUSTODY SEALS

Date 6/22/16

Signature Kelly Lewis

FedEx
TRK# 0215 8103 0202 5350

THU - 23 JUN AA
STANDARD OVERNIGHT

48150
MI-US
DTW

ET CFAA

FED 552995 22JUN16 WSHA 539C2/30BD/6A0P

CUSTODY SEALS

Date 6/22/16

Signature Kelly Lui

Cooler #078
Cooler ID: 210
Cooler Temp Blank: 3.4°C

Cooler #579
Cooler ID Blu Vol
Cooler Temp Blank 4.4°C

CUSTODY SEALS

Date 6/22/2016

Signature L Reynolds

Cooler ID: Blue Four
Cooler # 080
Temp Blank: 0.2°C

FedEx
TRK# 0215 8103 0202 4619

THU - 23 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 552995 22JUN16 WSHA 539C2/30BD/6A08

CUSTODY SEALS

Date 6/22/2016

Signature L Bannerson

Cooler #08?
Cooler ID: Green Arrow
Cooler Temp Blank 2.2°C

FedEx TRK# 0215 8103 0202 4608

THU - 23 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 552995 22JUN16 WSHA 539C2/30BD/6A08

CUSTODY SEALS

Date 6/22/2016

Signature [signature]

Cooler ID Little Joyce

Cooler #82

temp Blank: 0.4°C

FedEx

TRK# 0215 8103 0202 4593

THU - 23 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 552995 22JUN16 WSHA 539C2/30BD/6A08

CUSTODY SEALS

Date 6/22/2016

Signature L Bumerman

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606859

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606859-001A	B113-WP01-01		6/21/2016 3:00 PM	6/23/2016 10:00 AM	Wipe
1606859-002A	B113-CC01-01		6/21/2016 2:30 PM	6/23/2016 10:00 AM	Solid

RTI Laboratories - Case Narrative

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Polychlorinated Biphenyls - 8082A
Polychlorinated Biphenyls - SW8082A

Analytical Comments for Test SW_8082S, Analytical Run No 87007, Batch ID 40257:
Sample 1606859-002A: Recovery of both surrogates TCMX and DCB exceeds QC control limits. %RPD is >40%

Analytical Comments for Test SW_8082W, Analytical Run No 87630, Batch ID 40498:
Sample LCS-40498: Recovery for Aroclor 1016 (62.8%) exceeded control limits - LCSD recovery was within control limits.
Sample LCSD-40498: RPD result was elevated for Aroclor 1016.
Sample 1606859-001A: Recovery for surrogate DCB (131%) was slightly elevated.
Sample MB-40498: Surrogate recovery for Decachlorobiphenyl was outside the control limits.
Sample 1606859-001A: Second column RPD was > 40% for Aroclor 1254 and both Surrogates TCMX and DCB.

RTI Laboratories - Analytical Report

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 3:00:00 PM
Project:	Camp Hero		
Lab ID:	1606859-001	**Matrix:**	Wipe
Client Sample ID:	B113-WP01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A-WIPE**					**Analyst: ABP**
Aroclor 1016	0.0012	UQ	0.0012	0.0012	0.0012	mg	5	7/22/2016 11:59 PM
Aroclor 1221	0.0012	U	0.0012	0.0012	0.0012	mg	5	7/22/2016 11:59 PM
Aroclor 1232	0.0012	U	0.0012	0.0012	0.0012	mg	5	7/22/2016 11:59 PM
Aroclor 1242	0.0012	U	0.0012	0.0012	0.0012	mg	5	7/22/2016 11:59 PM
Aroclor 1248	0.0012	U	0.0012	0.0012	0.0012	mg	5	7/22/2016 11:59 PM
Aroclor 1254	4.4	P	0.0012	0.0012	0.0012	mg	5	7/22/2016 11:59 PM
Aroclor 1260	0.0012	U	0.0012	0.0012	0.0012	mg	5	7/22/2016 11:59 PM
Surr: Tetrachloro-m-xylene	108	P		70-130		%Rec	5	7/22/2016 11:59 PM
Surr: Decachlorobiphenyl	131	PQ		70-130		%Rec	5	7/22/2016 11:59 PM

RTI Laboratories - Analytical Report

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 2:30:00 PM
Project:	Camp Hero		
Lab ID:	1606859-002	**Matrix:**	Solid
Client Sample ID:	B113-CC01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: MB**
Aroclor 1016	6.7	U	3.0	6.7	33	mg/Kg	1000	6/28/2016 10:08 AM
Aroclor 1221	6.7	U	3.0	6.7	33	mg/Kg	1000	6/28/2016 10:08 AM
Aroclor 1232	6.7	U	4.5	6.7	33	mg/Kg	1000	6/28/2016 10:08 AM
Aroclor 1242	6.7	U	3.7	6.7	33	mg/Kg	1000	6/28/2016 10:08 AM
Aroclor 1248	6.7	U	3.5	6.7	33	mg/Kg	1000	6/28/2016 10:08 AM
Aroclor 1254	210		4.2	6.7	33	mg/Kg	1000	6/28/2016 10:08 AM
Aroclor 1260	6.7	U	2.9	6.7	33	mg/Kg	1000	6/28/2016 10:08 AM
Aroclor 1262	6.7	U	2.9	6.7	33	mg/Kg	1000	6/28/2016 10:08 AM
Aroclor 1268	6.7	U	2.4	6.7	33	mg/Kg	1000	6/28/2016 10:08 AM
Surr: Tetrachloro-m-xylene	0	Q		44-130		%Rec	1000	6/28/2016 10:08 AM
Surr: Decachlorobiphenyl	0	Q		60-125		%Rec	1000	6/28/2016 10:08 AM

RTI Laboratories - DATES REPORT

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606859-001A	B113-WP01-01	6/21/2016 3:00 PM	Wipe				
				SW_8082W-Polychlorinated Biphenyls		7/21/2016 8:26 AM	7/22/2016 11:34 PM
				SW_8082W-Polychlorinated Biphenyls		7/21/2016 8:26 AM	7/22/2016 11:59 PM
1606859-002A	B113-CC01-01	6/21/2016 2:30 PM	Solid				
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/27/2016 5:15 PM
				SW_8082S-Polychlorinated Biphenyls		6/26/2016 6:57 AM	6/28/2016 10:08 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40257

Sample ID:	1606652-015EMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87007
Client ID:	ZZZZZZ	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/28/2016	SeqNo:	1688081

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.036	0.18	0	69.6	46	129				
Aroclor 1260	0.14	0.036	0.18	0	74.8	45	134				
Surr: Tetrachloro-m-xylene	5.4		9.131		58.8	44	130				
Surr: Decachlorobiphenyl	6.7		9.131		73.6	40	135				

Sample ID:	1606652-015EMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87007
Client ID:	ZZZZZZ	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/28/2016	SeqNo:	1688082

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.13	0.036	0.18	0	69.2	46	129	0.13	0.947	25	
Aroclor 1260	0.13	0.036	0.18	0	73.5	45	134	0.14	2.02	25	
Surr: Tetrachloro-m-xylene	5.2		9.104		56.7	44	130		0	25	
Surr: Decachlorobiphenyl	6.4		9.104		70.7	40	135		0	25	

Sample ID:	LCS-40257	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87007
Client ID:	LCSS	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/27/2016	SeqNo:	1688118

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.033	0.17	0	87.0	46	129				
Aroclor 1260	0.16	0.033	0.17	0	93.8	45	134				
Surr: Tetrachloro-m-xylene	6.8		8.275		81.6	44	130				
Surr: Decachlorobiphenyl	7.9		8.275		95.1	40	135				

Sample ID:	MB-40257	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87007
Client ID:	PBS	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/27/2016	SeqNo:	1688119

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40257

Sample ID:	MB-40257	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87007
Client ID:	PBS	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/27/2016	SeqNo:	1688119

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	6.8		8.292		82.0	44	130				
Surr: Decachlorobiphenyl	7.7		8.292		93.0	60	125				

Sample ID:	1606652-015EMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87008
Client ID:	ZZZZZZ	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/28/2016	SeqNo:	1688141

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.036	0.18	0	76.6	46	129				
Aroclor 1260	0.15	0.036	0.18	0	84.1	45	134				G
Surr: Tetrachloro-m-xylene	5.9		9.131		64.5	44	130				
Surr: Decachlorobiphenyl	7.6		9.131		83.3	40	135				

Sample ID:	1606652-015EMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	6/26/2016	RunNo:	87008
Client ID:	ZZZZZZ	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/28/2016	SeqNo:	1688142

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.14	0.036	0.18	0	75.2	46	129	0.13	7.45	25	
Aroclor 1260	0.15	0.036	0.18	0	81.5	45	134	0.14	8.32	25	G
Surr: Tetrachloro-m-xylene	5.7		9.104		63.0	44	130		0	25	
Surr: Decachlorobiphenyl	7.3		9.104		79.8	40	135		0	25	

Sample ID:	LCS-40257	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87008
Client ID:	LCSS	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/27/2016	SeqNo:	1688178

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.17	0.033	0.17	0	100	46	129				
Aroclor 1260	0.18	0.033	0.17	0	112	45	134				G
Surr: Tetrachloro-m-xylene	7.3		8.275		88.1	44	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40257

Sample ID:	LCS-40257	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87008
Client ID:	LCSS	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/27/2016	SeqNo:	1688178

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	9.1		8.275		110	40	135				

Sample ID:	MB-40257	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	6/26/2016	RunNo:	87008
Client ID:	PBS	Batch ID:	40257	TestNo:	SW8082	SW3546		Analysis Date:	6/27/2016	SeqNo:	1688179

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									UG
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.4		8.292		89.2	44	130				
Surr: Decachlorobiphenyl	8.9		8.292		108	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40498**

Sample ID:	LCS-40498	Samp Type:	LCS	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87630
Client ID:	LCSS	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702155

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	3.1	0.00025	5.000	0	62.8	70	130				Q
Aroclor 1260	4.5	0.00025	5.000	0	89.7	70	130				
Surr: Tetrachloro-m-xylene	0.063		0.2500		25.2	70	130				Q
Surr: Decachlorobiphenyl	0.24		0.2500		95.2	70	130				

Sample ID:	LCSD-40498	Samp Type:	LCSD	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87630
Client ID:	LCSS02	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702156

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	5.7	0.00025	5.000	0	114	70	130	3.142	58.2	25	R
Aroclor 1260	5.5	0.00025	5.000	0	111	70	130	4.484	21.1	25	
Surr: Tetrachloro-m-xylene	0.24		0.2500		96.2	70	130		0	25	
Surr: Decachlorobiphenyl	0.30		0.2500		120	70	130		0	25	

Sample ID:	MB-40498	Samp Type:	MBLK	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87630
Client ID:	PBS	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702157

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.00025	0.00025									U
Aroclor 1221	0.00025	0.00025									U
Aroclor 1232	0.00025	0.00025									U
Aroclor 1242	0.00025	0.00025									U
Aroclor 1248	0.00025	0.00025									U
Aroclor 1254	0.00025	0.00025									U
Aroclor 1260	0.00025	0.00025									U
Surr: Tetrachloro-m-xylene	0.13		0.2500		50.6	70	130				Q
Surr: Decachlorobiphenyl	0.29		0.2500		114	70	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40498

Sample ID:	LCS-40498	Samp Type:	LCS	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87635
Client ID:	LCSS	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702284

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	3.3	0.00025	5.000	0	66.1	70	130				Q
Aroclor 1260	4.7	0.00025	5.000	0	94.8	70	130				
Surr: Tetrachloro-m-xylene	0.085		0.2500		34.1	70	130				Q
Surr: Decachlorobiphenyl	0.25		0.2500		99.5	70	130				

Sample ID:	MB-40498	Samp Type:	MBLK	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87635
Client ID:	PBS	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702286

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.00025	0.00025									U
Aroclor 1221	0.00025	0.00025									U
Aroclor 1232	0.00025	0.00025									U
Aroclor 1242	0.00025	0.00025									U
Aroclor 1248	0.00025	0.00025									U
Aroclor 1254	0.00025	0.00025									U
Aroclor 1260	0.00025	0.00025									U
Surr: Tetrachloro-m-xylene	0.23		0.2500		91.4	70	130				
Surr: Decachlorobiphenyl	0.30		0.2500		119	70	130				

Sample ID:	LCSD-40498	Samp Type:	LCSD	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87635
Client ID:	LCSS02	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702772

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	4.8	0.00025	5.000	0	96.7	70	130	3.306	37.6	25	R
Aroclor 1260	5.8	0.00025	5.000	0	115	70	130	4.739	19.4	25	
Surr: Tetrachloro-m-xylene	0.24		0.2500		97.2	70	130		0	25	
Surr: Decachlorobiphenyl	0.31		0.2500		123	70	130		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606859

Date Reported: 8/25/2016
Revision v2

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

168859

AECOM

PAGE 1 OF 1

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	062216-07
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	~~VOCs STAR GAS (8260B)~~ TCLP	VOCs STAR FUEL (8260B)	~~SVOC-PNA (8270D/82070D-SIM Mod)~~ TCLP	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020) TCLP	~~Lead (6020)~~ Reactivity/Corrosivity	Energetics (8330B) Ignitability	Comment
FieldQC	–	–	TB	1	TB-GW-062116-02	6/21/16	0810	WQ	3	0678	3										
B113-LC02	–	–	N	1	B113-LC02-01	6/21/16	1400	LC	8			3*		2*				1	1	1	
B113-WP01	–	–	N	1	B113-WP01-01	6/21/16	1500	WP	1								1				
B113-CC01	–	–	N	1	B113-CC01-01	6/21/16	1430	CC	1								1				

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
AECOM	6/22/16	1200	Fedex to RTI	6/22/16	1200
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			RTI	6/23/16	1000
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No. 8103 0202 5350

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

* 1 Vial refill Broken

** B113-LC02-01 TCLP

210

Cooler #08;

Cooler ID: Green Arrow

Cooler Temp Blank 2.2°C

FedEx
0215 8103 0202 4608

THU - 23 JUN AA
STANDARD OVERNIGHT

ET CFAA

48150
MI-US
DTW

FID 552995 22JUN16 WSNA 539C2/30BD/6A08

CUSTODY SEALS

Date 6/22/2016

Signature L Bauerschmidt

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606936

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606936-001A	H17-SB02-GW		6/21/2016 10:40 AM	6/28/2016 9:38 AM	Groundwater
1606936-001B	H17-SB02-GW		6/21/2016 10:40 AM	6/28/2016 9:38 AM	Groundwater
1606936-001C	H17-SB02-GW		6/21/2016 10:40 AM	6/28/2016 9:38 AM	Groundwater
1606936-001D	H17-SB02-GW		6/21/2016 10:40 AM	6/28/2016 9:38 AM	Groundwater
1606936-002A	TB-GW-062116-03		6/21/2016 8:20 AM	6/28/2016 9:38 AM	Water

RTI Laboratories - Case Narrative

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Metals, ICP/MS - 6020
Silver and/or Antimony, ICP/MS - 6020A-SA
Polychlorinated Biphenyls - 8082A
Volatile Organic Compounds - 8260C
Semi-Volatile Organic Compounds - 8270D-MOD
Semi-Volatile Organic Compounds - 8270D SIM

Analytical Comments for Test SW_8260A, Analytical Run No 87138, Batch ID: R87138:
Sample VOA11B ICV 063016: ICV result for Bromoform exceeded the control criteria.
Sample VOA11B CCV2 070116: CCV results for 1,2-Dibromo-3-chloropropane and Bromoform exceeded the control criteria.
Sample VOA11B LCS2 070116: Recoveries for Bromoform and Chlorodibromomethane exceeded the control limits.
Sample 1606912-001AMS: Spike recoveries for 1,2-Dibromo-3-chloropropane, Bromoform and Chlorodibromomethane exceeded control limits. Sample was not associated with work order.
Sample 1606912-001AMSD: Spike recoveries for 1,2-Dibromo-3-chloropropane, Bromoform, Chlorodibromomethane and Methylene chloride exceeded control limits. Sample was not associated with work order.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87828, Batch ID: 87828:
Sample ICV S8 080216: ICV results for 4,6-Dinitro-2-methylphenol and Bis(2-chloroisopropyl)ether exceeded control limits.
Sample CCV S8 080316: CCV results for Benzoic acid, Bis(2-chloroisopropyl)ether and Pentachlorophenol exceeded control limits

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87828, Batch ID: 40292:
Sample 1606936-001B: Sample was prepared outside method recommended hold time by 0.898 day, due to delayed FedEx delivery.

Analytical Comments for Test SW_8270A-LL, Analytical Run No 87476, batch ID: 40292:
Sample LCS-40292: Recoveries for 4-Nitrophenol, Benzoic Acid and N-Nitrosodimethylamine were outside control criteria.
Sample LCSD-40292: Recoveries for Benzoic Acid and N-Nitrosodimethylamine were outside control criteria. The RPD percentage for 4-Nitrophenol was above control limit.

Analytical Comments for Test SW_8270A-SIM, Analytical Run No 87476, Batch ID: 40293:
Sample 1606936-001B: Sample was prepared outside method recommended hold time by 0.898 day, due to delayed FedEx delivery.

Analytical Comments for Test SW_6020A, Analytical Run No 87684, Batch ID 40440:
Sample 1606631-005DMS: Recoveries for Aluminum and Calcium were outside control criteria. Sample was not associated with the work order.
Sample 1606631-005DMSD: Recoveries for Aluminum, Calcium and Sodium were outside control criteria. Sample was not associated with the work order.

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/21/2016 10:40:00 AM
Project: Camp Hero
Lab ID: 1606936-001 **Matrix:** Groundwater
Client Sample ID: H17-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3510C**			**Analyst: ABP**
Aroclor 1016	0.042	U	0.034	0.042	0.11	µg/L	1	7/13/2016 8:25 AM
Aroclor 1221	0.042	U	0.032	0.042	0.11	µg/L	1	7/13/2016 8:25 AM
Aroclor 1232	0.043	U	0.043	0.043	0.21	µg/L	1	7/13/2016 8:25 AM
Aroclor 1242	0.042	U	0.039	0.042	0.21	µg/L	1	7/13/2016 8:25 AM
Aroclor 1248	0.042	U	0.033	0.042	0.11	µg/L	1	7/13/2016 8:25 AM
Aroclor 1254	0.042	U	0.042	0.042	0.21	µg/L	1	7/13/2016 8:25 AM
Aroclor 1260	0.042	U	0.037	0.042	0.21	µg/L	1	7/13/2016 8:25 AM
Aroclor 1262	0.11	U	0.054	0.11	0.21	µg/L	1	7/13/2016 8:25 AM
Aroclor 1268	0.042	U	0.029	0.042	0.11	µg/L	1	7/13/2016 8:25 AM
Surr: Tetrachloro-m-xylene	52.3			40-135		%Rec	1	7/13/2016 8:25 AM
Surr: Decachlorobiphenyl	52.8			40-135		%Rec	1	7/13/2016 8:25 AM
Target Analyte List Metals Metals, ICP/MS			**Method: 6020A**		**SW3020A**			**Analyst: BK**
Aluminum	160,000		140	250	5,000	µg/L	500	7/28/2016 7:11 PM
Arsenic	12		0.61	1.0	1.5	µg/L	5	7/28/2016 4:32 PM
Barium	970		0.18	0.50	25	µg/L	5	7/28/2016 4:32 PM
Beryllium	5.3	G	0.25	0.50	1.0	µg/L	5	7/28/2016 4:32 PM
Cadmium	1.5		0.27	0.50	1.0	µg/L	5	7/28/2016 4:32 PM
Calcium	17,000		900	1,200	10,000	µg/L	50	7/28/2016 6:20 PM
Chromium	350		1.5	2.5	50	µg/L	25	8/3/2016 1:10 PM
Cobalt	97		0.60	2.5	25	µg/L	25	8/3/2016 1:10 PM
Copper	280		1.2	2.5	25	µg/L	25	8/3/2016 1:10 PM
Iron	180,000		480	1,200	2,000	µg/L	50	7/28/2016 6:20 PM
Lead	68		0.24	0.50	1.0	µg/L	5	7/28/2016 4:32 PM
Magnesium	46,000		410	1,200	5,000	µg/L	50	7/28/2016 6:20 PM
Manganese	2,200		2.6	5.0	50	µg/L	50	7/28/2016 6:20 PM
Nickel	230	G	1.0	2.5	50	µg/L	25	8/3/2016 1:10 PM
Potassium	41,000		530	620	2,500	µg/L	25	8/3/2016 1:10 PM
Selenium	3.3	JG	1.5	2.5	5.0	µg/L	5	7/28/2016 4:32 PM
Sodium	21,000		580	1,200	5,000	µg/L	50	7/28/2016 6:20 PM
Thallium	3.0	G	0.16	0.50	2.0	µg/L	5	7/28/2016 4:32 PM
Vanadium	380		2.4	2.5	20	µg/L	25	8/3/2016 1:10 PM
Zinc	1,200		1.8	2.5	50	µg/L	5	7/28/2016 4:32 PM
Target Analyte List Metals Silver and/or Antimony, ICP/MS			**Method: 6020A-SA**		**SW3020A**			**Analyst: BK**
Antimony	0.62	JG	0.19	0.75	2.5	µg/L	5	7/12/2016 5:25 PM
Silver	0.71	J	0.24	0.50	1.5	µg/L	5	7/12/2016 5:25 PM
Semi-Volatile Organic Compounds			**Method: 8270D-MOD**		**SW3510C**			**Analyst: KAL**
1,2,4-Trichlorobenzene	1.1	UH	1.0	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
1,2-Dichlorobenzene	1.1	UH	1.0	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
1,3-Dichlorobenzene	1.1	UH	0.86	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
1,4-Dichlorobenzene	2.8	UH	1.2	2.8	5.7	µg/L	1	8/3/2016 4:02 PM

RTI Laboratories - Analytical Report

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/21/2016 10:40:00 AM
Project: Camp Hero
Lab ID: 1606936-001 **Matrix:** Groundwater
Client Sample ID: H17-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2,4,5-Trichlorophenol	2.8	UH	1.3	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
2,4,6-Trichlorophenol	1.1	UH	1.1	1.1	4.5	µg/L	1	8/3/2016 4:02 PM
2,4-Dichlorophenol	2.8	UH	1.6	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
2,4-Dimethyl phenol	2.8	UH	2.5	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
2,4-Dinitrophenol	11	UH	5.7	11	28	µg/L	1	8/3/2016 4:02 PM
2,4-Dinitrotoluene	1.1	UH	0.68	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
2,6-Dinitrotoluene	1.1	UH	0.97	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
2-Chloronaphthalene	1.1	UH	1.0	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
2-Chlorophenol	1.1	UH	0.99	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
2-Methylphenol (o-Cresol)	1.1	UH	1.1	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
2-Nitroaniline	1.1	UH	1.0	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
2-Nitrophenol	2.8	UH	1.4	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
3,3´-Dichlorobenzidine	2.8	UH	1.9	2.8	23	µg/L	1	8/3/2016 4:02 PM
3-Nitroaniline	1.1	UH	0.95	1.1	11	µg/L	1	8/3/2016 4:02 PM
3/4-Methylphenol [m/p-Cresol]	5.7	UH	2.1	5.7	11	µg/L	1	8/3/2016 4:02 PM
4,6-Dinitro-2-methylphenol	1.1	UH	1.0	1.1	11	µg/L	1	8/3/2016 4:02 PM
4-Bromophenyl phenyl ether	1.1	UH	0.90	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
4-Chloro-3-methylphenol	2.8	UH	1.4	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
4-Chloroaniline [p-Chloroaniline]	1.1	UH	0.92	1.1	11	µg/L	1	8/3/2016 4:02 PM
4-Chlorophenyl phenyl ether	1.1	UH	0.90	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
4-Nitroaniline	2.8	UH	1.3	2.8	11	µg/L	1	8/3/2016 4:02 PM
4-Nitrophenol	2.8	UH	1.6	2.8	28	µg/L	1	8/3/2016 4:02 PM
Benzoic acid	2.8	UYH	2.3	2.8	28	µg/L	1	8/3/2016 4:02 PM
Benzyl alcohol	2.8	UH	2.4	2.8	28	µg/L	1	8/3/2016 4:02 PM
Bis(2-chloroethoxy) methane	2.8	UH	1.2	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
Bis(2-chloroethyl) ether	2.8	UH	1.2	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
Bis(2-chloroisopropyl)ether	2.8	UYZH	1.3	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
Bis(2-ethylhexyl) phthalate	1.1	UH	0.80	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
Butyl benzyl phthalate	2.8	UH	1.2	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
Carbazole	1.1	UH	0.69	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
Di-n-butyl phthalate	1.1	UH	0.66	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
Di-n-octyl phthalate	2.8	UH	1.3	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
Dibenzofuran	1.1	UH	0.85	1.1	4.5	µg/L	1	8/3/2016 4:02 PM
Diethyl phthalate	1.1	UH	0.70	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
Dimethyl phthalate	1.1	UH	0.81	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
Hexachlorobenzene	1.1	UH	0.70	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
Hexachlorobutadiene	1.1	UH	0.97	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
Hexachloroethane	1.1	UH	0.84	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
Isophorone	1.1	UH	1.1	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
N-Nitroso-di-n-propylamine	2.8	UH	1.3	2.8	5.7	µg/L	1	8/3/2016 4:02 PM
N-Nitrosodimethylamine	1.1	UH	0.72	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
N-Nitrosodiphenylamine	1.1	UH	0.75	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
Nitrobenzene	2.8	UH	1.4	2.8	3.4	µg/L	1	8/3/2016 4:02 PM
Pentachlorophenol	1.1	UYH	1.0	1.1	5.7	µg/L	1	8/3/2016 4:02 PM

Client: AECOM Design and Consulting Services (DCS) **Collection Date:** 6/21/2016 10:40:00 AM
Project: Camp Hero
Lab ID: 1606936-001 **Matrix:** Groundwater
Client Sample ID: H17-SB02-GW

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Phenol	1.1	UH	0.69	1.1	5.7	µg/L	1	8/3/2016 4:02 PM
Surr: 2,4,6-Tribromophenol	72.3	H		43-140		%Rec	1	8/3/2016 4:02 PM
Surr: 2-Fluorobiphenyl	63.0	H		44-119		%Rec	1	8/3/2016 4:02 PM
Surr: 2-Fluorophenol	50.1	H		19-119		%Rec	1	8/3/2016 4:02 PM
Surr: Nitrobenzene-d5	62.7	H		44-120		%Rec	1	8/3/2016 4:02 PM
Surr: Phenol-d5	37.2	H		30-130		%Rec	1	8/3/2016 4:02 PM
Surr: Terphenyl-d14	84.4	H		50-134		%Rec	1	8/3/2016 4:02 PM
Poylnuclear Hydrocarbons - SIM **Semi-Volatile Organic Compounds**			**Method: 8270D SIM**		**SW3510C**			**Analyst: STM**
1-Methylnaphthalene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
2-Methylnaphthalene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Acenaphthene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Acenaphthylene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Anthracene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Benz(a)anthracene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Benzo(a)pyrene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Benzo(b)fluoranthene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Benzo(g,h,i)perylene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Benzo(k)fluoranthene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Chrysene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Dibenzo(a,h)anthracene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Fluoranthene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Fluorene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Indeno(1,2,3-cd)pyrene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Naphthalene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Phenanthrene	0.068	UBH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Pyrene	0.068	UH	0.068	0.068	0.068	µg/L	3	7/25/2016 5:14 PM
Surr: 2-Fluorobiphenyl	68.8	H		53-106		%Rec	3	7/25/2016 5:14 PM
Surr: Nitrobenzene-d5	62.9	H		55-111		%Rec	3	7/25/2016 5:14 PM
Surr: Terphenyl-d14	65.1	H		58-132		%Rec	3	7/25/2016 5:14 PM
TCL for VOA **Volatile Organic Compounds**			**Method: 8260C**					**Analyst: KAL**
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 10:07 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	7/1/2016 10:07 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/1/2016 10:07 PM

RTI Laboratories - Analytical Report

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 10:40:00 AM
Project:	Camp Hero		
Lab ID:	1606936-001	**Matrix:**	Groundwater
Client Sample ID:	H17-SB02-GW		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 10:07 PM
Acetone	18		0.56	0.60	10	µg/L	1	7/1/2016 10:07 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Bromoform	0.60	UY QZ	0.25	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 10:07 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Methylene chloride	0.60	U	0.27	0.60	5.0	µg/L	1	7/1/2016 10:07 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 10:07 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 10:07 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/1/2016 10:07 PM
Surr: 4-Bromofluorobenzene	91.0			85-114		%Rec	1	7/1/2016 10:07 PM
Surr: Dibromofluoromethane	93.1			80-119		%Rec	1	7/1/2016 10:07 PM
Surr: Toluene-d8	90.2			89-112		%Rec	1	7/1/2016 10:07 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/21/2016 8:20:00 AM
Project:	Camp Hero		
Lab ID:	1606936-002	**Matrix:**	Water
Client Sample ID:	TB-GW-062116-03		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
TCL for VOA			**Method: 8260C**					**Analyst: KAL**
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
1,1,1-Trichloroethane	0.60	U	0.58	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
1,1,2,2-Tetrachloroethane	0.60	U	0.45	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
1,1,2-Trichloroethane	0.60	U	0.49	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
1,1-Dichloroethane	1.0	U	0.74	1.0	2.0	µg/L	1	7/1/2016 8:01 PM
1,1-Dichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
1,2,3-Trichloropropane	0.60	U	0.31	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
1,2-Dibromo-3-chloropropane	2.0	UY	1.0	2.0	5.0	µg/L	1	7/1/2016 8:01 PM
1,2-Dibromoethane	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
1,2-Dichloroethane	0.60	U	0.28	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
1,2-Dichloropropane	0.60	U	0.42	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
2-Butanone [MEK]	5.0	U	2.3	5.0	10	µg/L	1	7/1/2016 8:01 PM
2-Hexanone	1.0	U	0.64	1.0	2.0	µg/L	1	7/1/2016 8:01 PM
Acetone	1.1	J	0.56	0.60	10	µg/L	1	7/1/2016 8:01 PM
Benzene	0.60	U	0.38	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Bromodichloromethane	0.60	U	0.33	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Bromoform	0.60	UY QZ	0.25	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Carbon disulfide	0.60	U	0.54	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Carbon tetrachloride	0.60	U	0.39	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Chlorobenzene	0.60	U	0.47	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Chlorodibromomethane	0.60	UQ	0.27	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Chloroethane	1.0	U	0.68	1.0	2.0	µg/L	1	7/1/2016 8:01 PM
Chloroform	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Chloromethane	0.60	U	0.37	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
cis-1,2-Dichloroethene	0.60	U	0.44	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
cis-1,3-Dichloropropene	0.60	U	0.26	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Dichlorodifluoromethane [Freon-12]	0.60	U	0.46	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Ethylbenzene	0.60	U	0.43	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Methylene chloride	0.62	J	0.27	0.60	5.0	µg/L	1	7/1/2016 8:01 PM
Styrene	0.60	U	0.30	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Tetrachloroethene	0.60	U	0.56	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Toluene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
trans-1,2-Dichloroethene	0.60	U	0.32	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
trans-1,3-Dichloropropene	0.60	U	0.50	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Trichloroethene	0.60	U	0.48	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Trichlorofluoromethane [Freon-11]	0.60	U	0.55	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Vinyl acetate	0.60	U	0.37	0.60	5.0	µg/L	1	7/1/2016 8:01 PM
Vinyl chloride	0.60	U	0.52	0.60	1.0	µg/L	1	7/1/2016 8:01 PM
Xylene (total)	1.8	U	1.3	1.8	3.0	µg/L	1	7/1/2016 8:01 PM
Surr: 4-Bromofluorobenzene	89.6			85-114		%Rec	1	7/1/2016 8:01 PM
Surr: Dibromofluoromethane	96.9			80-119		%Rec	1	7/1/2016 8:01 PM
Surr: Toluene-d8	90.6			89-112		%Rec	1	7/1/2016 8:01 PM

RTI Laboratories - DATES REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606936-001A	H17-SB02-GW	6/21/2016 10:40 AM	Groundwater				
				SW_8260A-Volatile Organic Compounds		7/1/2016 10:07 PM	7/1/2016 10:07 PM
1606936-001B	H17-SB02-GW	6/21/2016 10:40 AM	Groundwater				
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/29/2016 8:13 AM	7/2/2016 6:16 PM
				SW_8270A-LL-Semi-Volatile Organic Compounds		6/29/2016 8:13 AM	8/3/2016 4:02 PM
				SW_8270A-SIM-Semi-Volatile Organic Compounds		6/29/2016 8:14 AM	7/25/2016 5:14 PM
1606936-001C	H17-SB02-GW	6/21/2016 10:40 AM	Groundwater				
				SW_8082A-Polychlorinated Biphenyls		7/7/2016 9:19 AM	7/13/2016 8:25 AM
1606936-001D	H17-SB02-GW	6/21/2016 10:40 AM	Groundwater				
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 4:32 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 6:20 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	7/28/2016 7:11 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	8/3/2016 1:10 PM
				SW_6020A-Metals, ICP/MS		7/15/2016 9:24 AM	8/3/2016 1:12 PM
				SW_6020A-SA-Silver and/or Antimony, ICP/MS		7/7/2016 1:20 PM	7/12/2016 5:25 PM
1606936-002A	TB-GW-062116-03	6/21/2016 8:20 AM	Water				
				SW_8260A-Volatile Organic Compounds		7/1/2016 8:01 PM	7/1/2016 8:01 PM
				SW_8260A-Volatile Organic Compounds		7/1/2016 10:31 PM	7/1/2016 10:31 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40292

Sample ID:	1606912-001DMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87476
Client ID:	ZZZZZZ	Batch ID:	40292	TestNo:	SW8270C	SW3510C		Analysis Date:	7/2/2016	SeqNo:	1698688

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	11	4.8	19.23	0	59.5	29	116				
1,4-Dichlorobenzene	11	4.8	19.23	0	58.7	29	112				
2,4,5-Trichlorophenol	17	4.8	19.23	0	90.5	53	123				
2,4,6-Trichlorophenol	17	3.8	19.23	0	87.0	50	125				
2,4-Dichlorophenol	15	4.8	19.23	0	78.1	47	121				
2,4-Dimethyl phenol	10	4.8	19.23	0	54.2	31	124				
2,4-Dinitrophenol	46	24	48.08	0	95.7	23	143				
2,4-Dinitrotoluene	19	4.8	19.23	0	99.7	57	128				
2,6-Dinitrotoluene	17	4.8	19.23	0	87.0	57	124				
2-Chloronaphthalene	14	4.8	19.23	0	71.2	40	116				
2-Chlorophenol	13	4.8	19.23	0	69.1	38	117				
2-Methylphenol (o-Cresol)	13	4.8	19.23	0	68.6	30	117				
2-Nitroaniline	18	4.8	19.23	0	96.0	55	127				
2-Nitrophenol	14	4.8	19.23	0	75.2	47	123				
3,3´-Dichlorobenzidine	19	19	19.23	0	98.0	27	129				J
3-Nitroaniline	19	9.6	19.23	0	98.8	41	128				
3/4-Methylphenol [m/p-Cresol]	23	9.6	38.46	0	60.3	25	120				
4,6-Dinitro-2-methylphenol	18	9.6	19.23	0	96.0	44	137				
4-Bromophenyl phenyl ether	13	4.8	19.23	0	69.8	55	124				
4-Chloro-3-methylphenol	16	4.8	19.23	0	84.2	52	119				
4-Chloroaniline [p-Chloroaniline]	15	9.6	19.23	0	75.6	33	117				
4-Chlorophenyl phenyl ether	15	4.8	19.23	0	77.0	53	121				
4-Nitroaniline	21	9.6	19.23	0	110	50	130				
4-Nitrophenol	23	24	48.08	0	48.0	50	130				JQY
Benzyl alcohol	11	24	19.23	0	58.2	31	112				J
Bis(2-chloroethoxy) methane	14	4.8	19.23	0	73.8	48	120				
Bis(2-chloroethyl) ether	13	4.8	19.23	0	68.6	43	118				
Bis(2-chloroisopropyl)ether	11	4.8	19.23	0	57.4	37	130				YZ
Bis(2-ethylhexyl) phthalate	16	4.8	19.23	0	83.9	55	135				
Butyl benzyl phthalate	14	4.8	19.23	0	75.3	53	134				

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40292

Sample ID:	1606912-001DMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87476
Client ID:	ZZZZZZ	Batch ID:	40292	TestNo:	SW8270C	SW3510C		Analysis Date:	7/2/2016	SeqNo:	1698688

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Carbazole	20	4.8	19.23	0	102	60	122				
Di-n-butyl phthalate	14	4.8	19.23	0	75.0	59	127				
Di-n-octyl phthalate	17	4.8	19.23	0	86.0	51	140				
Dibenzofuran	15	3.8	19.23	0	77.3	53	118				
Diethyl phthalate	17	4.8	19.23	0	88.2	56	125				
Dimethyl phthalate	16	4.8	19.23	0	85.0	45	127				
Hexachlorobenzene	14	4.8	19.23	0	70.6	53	125				
Hexachlorobutadiene	9.8	4.8	19.23	0	50.7	22	124				
Hexachloroethane	10	4.8	19.23	0	52.2	21	115				
Isophorone	13	4.8	19.23	0	67.8	42	124				
N-Nitroso-di-n-propylamine	14	4.8	19.23	0	73.8	50	130				
N-Nitrosodimethylamine	7.6	4.8	19.23	0	39.3	50	130				Q
N-Nitrosodiphenylamine	15	4.8	19.23	0	78.2	51	123				
Nitrobenzene	12	4.8	19.23	0	63.6	45	121				
Pentachlorophenol	19	4.8	19.23	0	99.3	35	138				
Phenol	6.2	4.8	19.23	0	32.2	50	130				Q
Surr: 2,4,6-Tribromophenol	27		24.04		111	43	140				
Surr: 2-Fluorobiphenyl	20		24.04		82.0	44	119				
Surr: 2-Fluorophenol	10		24.04		43.2	19	119				
Surr: Nitrobenzene-d5	17		24.04		72.2	44	120				
Surr: Phenol-d5	7.6		24.04		31.7	30	130				J
Surr: Terphenyl-d14	22		24.04		90.1	50	134				

Sample ID:	MB-40292	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87476
Client ID:	PBW	Batch ID:	40292	TestNo:	SW8270C	SW3510C		Analysis Date:	7/2/2016	SeqNo:	1709111

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	5.0	5.0									U
1,2-Dichlorobenzene	5.0	5.0									U
1,3-Dichlorobenzene	5.0	5.0									U
1,4-Dichlorobenzene	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40292

Sample ID:	MB-40292	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87476
Client ID:	PBW	Batch ID:	40292	TestNo:	SW8270C	SW3510C		Analysis Date:	7/2/2016	SeqNo:	1709111

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	5.0	5.0									U
2,4,6-Trichlorophenol	4.0	4.0									U
2,4-Dichlorophenol	5.0	5.0									U
2,4-Dimethyl phenol	5.0	5.0									U
2,4-Dinitrophenol	25	25									U
2,4-Dinitrotoluene	5.0	5.0									U
2,6-Dinitrotoluene	5.0	5.0									U
2-Chloronaphthalene	5.0	5.0									U
2-Chlorophenol	5.0	5.0									U
2-Methylphenol (o-Cresol)	5.0	5.0									U
2-Nitroaniline	5.0	5.0									U
2-Nitrophenol	5.0	5.0									U
3,3´-Dichlorobenzidine	20	20									U
3-Nitroaniline	10	10									U
3/4-Methylphenol [m/p-Cresol]	10	10									U
4,6-Dinitro-2-methylphenol	10	10									U
4-Bromophenyl phenyl ether	5.0	5.0									U
4-Chloro-3-methylphenol	5.0	5.0									U
4-Chloroaniline [p-Chloroaniline]	10	10									U
4-Chlorophenyl phenyl ether	5.0	5.0									U
4-Nitroaniline	10	10									U
4-Nitrophenol	25	25									UY
Benzoic acid	25	25									UY
Benzyl alcohol	25	25									U
Bis(2-chloroethoxy) methane	5.0	5.0									U
Bis(2-chloroethyl) ether	5.0	5.0									U
Bis(2-chloroisopropyl)ether	5.0	5.0									UYZ
Bis(2-ethylhexyl) phthalate	5.0	5.0									U
Butyl benzyl phthalate	5.0	5.0									U
Carbazole	5.0	5.0									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40292**

Sample ID:	MB-40292	Samp Type:	MBLK	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87476
Client ID:	PBW	Batch ID:	40292	TestNo:	SW8270C	SW3510C		Analysis Date:	7/2/2016	SeqNo:	1709111

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-butyl phthalate	5.0	5.0									U
Di-n-octyl phthalate	5.0	5.0									U
Dibenzofuran	4.0	4.0									U
Diethyl phthalate	5.0	5.0									U
Dimethyl phthalate	5.0	5.0									U
Hexachlorobenzene	5.0	5.0									U
Hexachlorobutadiene	5.0	5.0									U
Hexachloroethane	5.0	5.0									U
Isophorone	5.0	5.0									U
N-Nitroso-di-n-propylamine	5.0	5.0									U
N-Nitrosodimethylamine	5.0	5.0									U
N-Nitrosodiphenylamine	5.0	5.0									U
Nitrobenzene	3.0	3.0									U
Pentachlorophenol	5.0	5.0									U
Phenol	5.0	5.0									U
Surr: 2,4,6-Tribromophenol	26		25.00		106	43	140				
Surr: 2-Fluorobiphenyl	23		25.00		92.3	44	119				
Surr: 2-Fluorophenol	12		25.00		50.0	19	119				
Surr: Nitrobenzene-d5	20		25.00		81.8	44	120				
Surr: Phenol-d5	8.8		25.00		35.2	33	122				
Surr: Terphenyl-d14	25		25.00		100	50	134				

Sample ID:	LCS-40292	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87476
Client ID:	LCSW	Batch ID:	40292	TestNo:	SW8270C	SW3510C		Analysis Date:	7/2/2016	SeqNo:	1709112

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	12	5.0	20.00	0	61.0	29	116				
1,2-Dichlorobenzene	13	5.0	20.00	0	65.6	32	111				
1,3-Dichlorobenzene	12	5.0	20.00	0	59.5	28	110				
1,4-Dichlorobenzene	12	5.0	20.00	0	60.6	29	112				
2,4,5-Trichlorophenol	19	5.0	20.00	0	93.4	53	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40292**

Sample ID:	**LCS-40292**	Samp Type:	**LCS**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/29/2016**	RunNo:	**87476**
Client ID:	**LCSW**	Batch ID:	**40292**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**7/2/2016**	SeqNo:	**1709112**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,6-Trichlorophenol	18	4.0	20.00	0	89.0	50	125				
2,4-Dichlorophenol	17	5.0	20.00	0	83.2	47	121				
2,4-Dimethyl phenol	14	5.0	20.00	0	71.2	31	124				
2,4-Dinitrophenol	46	25	50.00	0	91.4	23	143				
2,4-Dinitrotoluene	19	5.0	20.00	0	97.0	57	128				
2,6-Dinitrotoluene	18	5.0	20.00	0	88.9	57	124				
2-Chloronaphthalene	15	5.0	20.00	0	74.9	40	116				
2-Chlorophenol	15	5.0	20.00	0	74.6	38	117				
2-Methylphenol (o-Cresol)	15	5.0	20.00	0	75.0	30	117				
2-Nitroaniline	19	5.0	20.00	0	97.4	55	127				
2-Nitrophenol	15	5.0	20.00	0	77.1	47	123				
3,3´-Dichlorobenzidine	21	20	20.00	0	106	27	129				
3-Nitroaniline	19	10	20.00	0	94.3	41	128				
3/4-Methylphenol [m/p-Cresol]	26	10	40.00	0	64.1	25	120				
4,6-Dinitro-2-methylphenol	19	10	20.00	0	94.6	44	137				
4-Bromophenyl phenyl ether	16	5.0	20.00	0	79.1	55	124				
4-Chloro-3-methylphenol	18	5.0	20.00	0	88.2	52	119				
4-Chloroaniline [p-Chloroaniline]	15	10	20.00	0	74.5	33	117				
4-Chlorophenyl phenyl ether	17	5.0	20.00	0	85.9	53	121				
4-Nitroaniline	21	10	20.00	0	104	50	130				
4-Nitrophenol	18	25	50.00	0	35.3	50	130				JQY
Benzoic acid	4.1	25	40.00	0	10.3	50	130				JQY
Benzyl alcohol	12	25	20.00	0	60.9	31	112				J
Bis(2-chloroethoxy) methane	15	5.0	20.00	0	75.9	48	120				
Bis(2-chloroethyl) ether	15	5.0	20.00	0	73.9	43	118				
Bis(2-chloroisopropyl)ether	12	5.0	20.00	0	61.0	37	130				YZ
Bis(2-ethylhexyl) phthalate	18	5.0	20.00	0	91.1	55	135				
Butyl benzyl phthalate	16	5.0	20.00	0	79.5	53	134				
Carbazole	21	5.0	20.00	0	103	60	122				
Di-n-butyl phthalate	16	5.0	20.00	0	82.2	59	127				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40292**

Sample ID:	LCS-40292	Samp Type:	LCS	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87476
Client ID:	LCSW	Batch ID:	40292	TestNo:	SW8270C	SW3510C		Analysis Date:	7/2/2016	SeqNo:	1709112

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Di-n-octyl phthalate	19	5.0	20.00	0	93.8	51	140				
Dibenzofuran	17	4.0	20.00	0	83.6	53	118				
Diethyl phthalate	17	5.0	20.00	0	87.2	56	125				
Dimethyl phthalate	17	5.0	20.00	0	83.9	45	127				
Hexachlorobenzene	16	5.0	20.00	0	78.7	53	125				
Hexachlorobutadiene	10	5.0	20.00	0	51.6	22	124				
Hexachloroethane	11	5.0	20.00	0	54.6	21	115				
Isophorone	14	5.0	20.00	0	70.9	42	124				
N-Nitroso-di-n-propylamine	15	5.0	20.00	0	76.9	50	130				
N-Nitrosodimethylamine	8.4	5.0	20.00	0	41.8	50	130				Q
N-Nitrosodiphenylamine	17	5.0	20.00	0	82.8	51	123				
Nitrobenzene	13	3.0	20.00	0	67.2	45	121				
Pentachlorophenol	20	5.0	20.00	0	98.4	35	138				
Phenol	7.8	5.0	20.00	0	39.2	34	121				
Surr: 2,4,6-Tribromophenol	28		25.00		110	43	140				
Surr: 2-Fluorobiphenyl	22		25.00		88.4	44	119				
Surr: 2-Fluorophenol	13		25.00		50.5	19	119				
Surr: Nitrobenzene-d5	20		25.00		78.7	44	120				
Surr: Phenol-d5	9.3		25.00		37.1	33	122				
Surr: Terphenyl-d14	23		25.00		93.0	50	134				

Sample ID:	LCSD-40292	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87476
Client ID:	LCSS02	Batch ID:	40292	TestNo:	SW8270C	SW3510C		Analysis Date:	7/2/2016	SeqNo:	1709113

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	13	5.0	20.00	0	66.6	29	116	12.20	8.78	25	
1,2-Dichlorobenzene	14	5.0	20.00	0	69.5	32	111	13.11	5.85	25	
1,3-Dichlorobenzene	13	5.0	20.00	0	65.8	28	110	11.90	10.1	25	
1,4-Dichlorobenzene	13	5.0	20.00	0	66.2	29	112	12.11	8.92	25	
2,4,5-Trichlorophenol	20	5.0	20.00	0	99.4	53	123	18.68	6.17	25	
2,4,6-Trichlorophenol	19	4.0	20.00	0	96.5	50	125	17.80	8.09	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40292**

Sample ID:	**LCSD-40292**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-LL**	Units:	**µg/L**	Prep Date:	**6/29/2016**	RunNo:	**87476**
Client ID:	**LCSS02**	Batch ID:	**40292**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**7/2/2016**	SeqNo:	**1709113**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4-Dichlorophenol	18	5.0	20.00	0	89.8	47	121	16.64	7.69	25	
2,4-Dimethyl phenol	16	5.0	20.00	0	78.3	31	124	14.25	9.43	25	
2,4-Dinitrophenol	49	25	50.00	0	98.7	23	143	45.71	7.62	25	
2,4-Dinitrotoluene	21	5.0	20.00	0	104	57	128	19.41	6.87	25	
2,6-Dinitrotoluene	19	5.0	20.00	0	93.8	57	124	17.78	5.31	25	
2-Chloronaphthalene	16	5.0	20.00	0	80.0	40	116	14.98	6.58	25	
2-Chlorophenol	16	5.0	20.00	0	82.5	38	117	14.92	10.1	25	
2-Methylphenol (o-Cresol)	16	5.0	20.00	0	81.4	30	117	15.00	8.18	25	
2-Nitroaniline	21	5.0	20.00	0	105	55	127	19.48	7.27	25	
2-Nitrophenol	17	5.0	20.00	0	86.8	47	123	15.42	11.8	25	
3,3´-Dichlorobenzidine	22	20	20.00	0	111	27	129	21.29	3.87	25	
3-Nitroaniline	20	10	20.00	0	100	41	128	18.86	5.87	25	
3/4-Methylphenol [m/p-Cresol]	28	10	40.00	0	69.7	25	120	25.62	8.41	25	
4,6-Dinitro-2-methylphenol	20	10	20.00	0	98.4	44	137	18.92	3.99	25	
4-Bromophenyl phenyl ether	17	5.0	20.00	0	82.6	55	124	15.82	4.39	25	
4-Chloro-3-methylphenol	19	5.0	20.00	0	96.4	52	119	17.63	8.94	25	
4-Chloroaniline [p-Chloroaniline]	16	10	20.00	0	82.2	33	117	14.90	9.83	25	
4-Chlorophenyl phenyl ether	18	5.0	20.00	0	90.5	53	121	17.18	5.22	25	
4-Nitroaniline	22	10	20.00	0	108	50	130	20.72	4.34	25	
4-Nitrophenol	25	25	50.00	0	50.3	50	130	17.65	35.0	25	RY
Benzoic acid	4.6	25	40.00	0	11.5	50	130	4.120	10.8	25	JQY
Benzyl alcohol	13	25	20.00	0	67.4	31	112	12.18	10.2	25	J
Bis(2-chloroethoxy) methane	17	5.0	20.00	0	85.4	48	120	15.18	11.8	25	
Bis(2-chloroethyl) ether	16	5.0	20.00	0	79.0	43	118	14.78	6.73	25	
Bis(2-chloroisopropyl)ether	13	5.0	20.00	0	65.6	37	130	12.20	7.27	25	YZ
Bis(2-ethylhexyl) phthalate	20	5.0	20.00	0	100	55	135	18.22	9.41	25	
Butyl benzyl phthalate	17	5.0	20.00	0	85.4	53	134	15.90	7.10	25	
Carbazole	21	5.0	20.00	0	107	60	122	20.56	4.05	25	
Di-n-butyl phthalate	17	5.0	20.00	0	87.1	59	127	16.43	5.85	25	
Di-n-octyl phthalate	20	5.0	20.00	0	102	51	140	18.75	8.04	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40292

Sample ID:	LCSD-40292	Samp Type:	LCSD	Test Code:	SW_8270A-LL	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87476
Client ID:	LCSS02	Batch ID:	40292	TestNo:	SW8270C	SW3510C		Analysis Date:	7/2/2016	SeqNo:	1709113

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dibenzofuran	18	4.0	20.00	0	88.2	53	118	16.71	5.36	25	
Diethyl phthalate	18	5.0	20.00	0	92.3	56	125	17.44	5.68	25	
Dimethyl phthalate	18	5.0	20.00	0	89.6	45	127	16.77	6.57	25	
Hexachlorobenzene	17	5.0	20.00	0	82.8	53	125	15.73	5.14	25	
Hexachlorobutadiene	12	5.0	20.00	0	59.6	22	124	10.32	14.4	25	
Hexachloroethane	12	5.0	20.00	0	58.9	21	115	10.92	7.58	25	
Isophorone	16	5.0	20.00	0	78.7	42	124	14.18	10.4	25	
N-Nitroso-di-n-propylamine	17	5.0	20.00	0	84.5	50	130	15.38	9.42	25	
N-Nitrosodimethylamine	9.2	5.0	20.00	0	46.1	50	130	8.370	9.66	25	Q
N-Nitrosodiphenylamine	17	5.0	20.00	0	86.4	51	123	16.56	4.20	25	
Nitrobenzene	15	3.0	20.00	0	75.4	45	121	13.44	11.5	25	
Pentachlorophenol	21	5.0	20.00	0	106	35	138	19.69	7.34	25	
Phenol	7.7	5.0	20.00	0	38.4	34	121	7.840	2.06	25	
Surr: 2,4,6-Tribromophenol	29		25.00		117	43	140		0	25	
Surr: 2-Fluorobiphenyl	23		25.00		92.4	44	119		0	25	
Surr: 2-Fluorophenol	13		25.00		53.4	19	119		0	25	
Surr: Nitrobenzene-d5	21		25.00		83.8	44	120		0	25	
Surr: Phenol-d5	9.7		25.00		38.7	33	122		0	25	
Surr: Terphenyl-d14	24		25.00		97.4	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40293**

Sample ID:	LCS-40293	Samp Type:	LCS	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87853
Client ID:	LCSW	Batch ID:	40293	TestNo:	SW8270C	SW3510C		Analysis Date:	7/25/2016	SeqNo:	1707882

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.32	0.020	0.4000	0	81.1	41	115				
2-Methylnaphthalene	0.32	0.020	0.4000	0	80.3	39	114				
Acenaphthene	0.30	0.020	0.4000	0	73.9	48	114				
Acenaphthylene	0.29	0.020	0.4000	0	71.8	35	121				
Anthracene	0.30	0.020	0.4000	0	74.8	53	119				
Benz(a)anthracene	0.32	0.020	0.4000	0	79.6	59	120				
Benzo(a)pyrene	0.28	0.020	0.4000	0	70.9	53	120				
Benzo(b)fluoranthene	0.30	0.020	0.4000	0	75.6	53	126				
Benzo(g,h,i)perylene	0.28	0.020	0.4000	0	71.0	44	128				
Benzo(k)fluoranthene	0.32	0.020	0.4000	0	79.2	54	125				
Chrysene	0.30	0.020	0.4000	0	74.1	57	120				
Dibenzo(a,h)anthracene	0.29	0.020	0.4000	0	71.6	44	131				
Fluoranthene	0.31	0.020	0.4000	0	77.1	58	120				
Fluorene	0.29	0.020	0.4000	0	72.4	50	118				
Indeno(1,2,3-cd)pyrene	0.28	0.020	0.4000	0	71.0	48	130				
Naphthalene	0.28	0.020	0.4000	0	70.6	43	114				
Phenanthrene	0.29	0.020	0.4000	0	71.7	53	115				B
Pyrene	0.30	0.020	0.4000	0	75.8	53	124				
Surr: 2-Fluorobiphenyl	0.48		0.5000		95.5	53	106				
Surr: Nitrobenzene-d5	0.47		0.5000		93.8	55	111				
Surr: Terphenyl-d14	0.48		0.5000		96.8	58	132				

Sample ID:	LCSD-40293	Samp Type:	LCSD	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87853
Client ID:	LCSS02	Batch ID:	40293	TestNo:	SW8270C	SW3510C		Analysis Date:	7/25/2016	SeqNo:	1707883

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.34	0.020	0.4000	0	85.6	41	115	0.3243	5.39	20	
2-Methylnaphthalene	0.31	0.020	0.4000	0	77.4	39	114	0.3211	3.58	20	
Acenaphthene	0.33	0.020	0.4000	0	81.3	48	114	0.2955	9.52	20	
Acenaphthylene	0.32	0.020	0.4000	0	80.2	35	121	0.2871	11.1	20	
Anthracene	0.34	0.020	0.4000	0	85.3	53	119	0.2991	13.2	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40293**

Sample ID:	**LCSD-40293**	Samp Type:	**LCSD**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/29/2016**	RunNo:	**87853**
Client ID:	**LCSS02**	Batch ID:	**40293**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**7/25/2016**	SeqNo:	**1707883**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benz(a)anthracene	0.35	0.020	0.4000	0	87.7	59	120	0.3183	9.75	20	
Benzo(a)pyrene	0.32	0.020	0.4000	0	79.9	53	120	0.2837	11.9	20	
Benzo(b)fluoranthene	0.34	0.020	0.4000	0	84.0	53	126	0.3024	10.5	20	
Benzo(g,h,i)perylene	0.32	0.020	0.4000	0	80.0	44	128	0.2839	12.0	20	
Benzo(k)fluoranthene	0.37	0.020	0.4000	0	91.9	54	125	0.3168	14.8	20	
Chrysene	0.34	0.020	0.4000	0	84.4	57	120	0.2964	13.0	20	
Dibenzo(a,h)anthracene	0.32	0.020	0.4000	0	80.6	44	131	0.2866	11.7	20	
Fluoranthene	0.35	0.020	0.4000	0	86.4	58	120	0.3083	11.4	20	
Fluorene	0.32	0.020	0.4000	0	80.2	50	118	0.2898	10.2	20	
Indeno(1,2,3-cd)pyrene	0.32	0.020	0.4000	0	80.0	48	130	0.2839	12.0	20	
Naphthalene	0.31	0.020	0.4000	0	76.4	43	114	0.2825	7.80	20	
Phenanthrene	0.32	0.020	0.4000	0	81.2	53	115	0.2869	12.4	20	B
Pyrene	0.34	0.020	0.4000	0	85.2	53	124	0.3030	11.7	20	
Surr: 2-Fluorobiphenyl	0.51		0.5000		102	53	106		0	20	
Surr: Nitrobenzene-d5	0.51		0.5000		102	55	111		0	20	
Surr: Terphenyl-d14	0.52		0.5000		103	58	132		0	20	

Sample ID:	**MB-40293**	Samp Type:	**MBLK**	Test Code:	**SW_8270A-SIM**	Units:	**µg/L**	Prep Date:	**6/29/2016**	RunNo:	**87836**
Client ID:	**PBW**	Batch ID:	**40293**	TestNo:	**SW8270C**	**SW3510C**		Analysis Date:	**8/4/2016**	SeqNo:	**1707956**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.020	0.020									U
2-Methylnaphthalene	0.020	0.020									U
Acenaphthene	0.020	0.020									U
Acenaphthylene	0.020	0.020									U
Anthracene	0.020	0.020									U
Benz(a)anthracene	0.020	0.020									U
Benzo(a)pyrene	0.020	0.020									U
Benzo(b)fluoranthene	0.020	0.020									U
Benzo(g,h,i)perylene	0.020	0.020									U
Benzo(k)fluoranthene	0.020	0.020									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40293

Sample ID:	MB-40293	Samp Type:	MBLK	Test Code:	SW_8270A-SIM	Units:	µg/L	Prep Date:	6/29/2016	RunNo:	87836
Client ID:	PBW	Batch ID:	40293	TestNo:	SW8270C	SW3510C		Analysis Date:	8/4/2016	SeqNo:	1707956

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chrysene	0.020	0.020									U
Dibenzo(a,h)anthracene	0.020	0.020									U
Fluoranthene	0.020	0.020									U
Fluorene	0.020	0.020									U
Indeno(1,2,3-cd)pyrene	0.020	0.020									U
Naphthalene	0.020	0.020									U
Phenanthrene	0.020	0.020									T
Pyrene	0.020	0.020									U
Surr: 2-Fluorobiphenyl	0.32		0.5000		64.3	53	106				
Surr: Nitrobenzene-d5	0.32		0.5000		64.5	55	111				
Surr: Terphenyl-d14	0.34		0.5000		67.7	58	132				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40353

Sample ID:	MB-40353	Samp Type:	MBLK	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87441
Client ID:	PBW	Batch ID:	40353	TestNo:	SW8082	SW3510C		Analysis Date:	7/13/2016	SeqNo:	1697959

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.10	0.10									U
Aroclor 1221	0.10	0.10									U
Aroclor 1232	0.20	0.20									U
Aroclor 1242	0.20	0.20									U
Aroclor 1248	0.10	0.10									U
Aroclor 1254	0.20	0.20									U
Aroclor 1260	0.20	0.20									U
Aroclor 1262	0.20	0.20									U
Aroclor 1268	0.10	0.10									U
Surr: Tetrachloro-m-xylene	0.085		0.1000		84.6	40	135				
Surr: Decachlorobiphenyl	0.099		0.1000		99.1	40	135				

Sample ID:	LCS-40353	Samp Type:	LCS	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87441
Client ID:	LCSW	Batch ID:	40353	TestNo:	SW8082	SW3510C		Analysis Date:	7/13/2016	SeqNo:	1697969

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	2.1	0.10	2.000	0	104	46	129				
Aroclor 1260	2.5	0.20	2.000	0	127	45	134				
Surr: Tetrachloro-m-xylene	0.12		0.1000		119	40	135				
Surr: Decachlorobiphenyl	0.12		0.1000		123	40	135				

Sample ID:	LCSD-40353	Samp Type:	LCSD	Test Code:	SW_8082A	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87441
Client ID:	LCSS02	Batch ID:	40353	TestNo:	SW8082	SW3510C		Analysis Date:	7/13/2016	SeqNo:	1697970

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	1.9	0.10	2.000	0	96.2	46	129	2.075	7.54	25	
Aroclor 1260	2.4	0.20	2.000	0	119	45	134	2.536	6.71	25	
Surr: Tetrachloro-m-xylene	0.11		0.1000		107	40	135		0	25	
Surr: Decachlorobiphenyl	0.11		0.1000		109	40	135		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40370**

Sample ID:	LCS-40370	Samp Type:	LCS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	LCSW	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694484

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	410	2.5	400.0	0	104	85	117				G
Silver	420	1.5	400.0	0	105	85	116				

Sample ID:	MB-40370	Samp Type:	MBLK	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	PBW	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694485

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	2.5	2.5									UG
Silver	1.5	1.5									U

Sample ID:	1606833-015DMS	Samp Type:	MS	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	ZZZZZZ	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694500

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	440	2.5	400.0	1.015	110	85	117				G
Silver	440	1.5	400.0	0	109	85	116				

Sample ID:	1606833-015DMSD	Samp Type:	MSD	Test Code:	SW_6020A-SA	Units:	µg/L	Prep Date:	7/7/2016	RunNo:	87288
Client ID:	ZZZZZZ	Batch ID:	40370	TestNo:	SW6020A	SW3020A		Analysis Date:	7/12/2016	SeqNo:	1694516

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Antimony	430	2.5	400.0	1.015	108	85	117	440.4	1.96	20	G
Silver	430	1.5	400.0	0	106	85	116	436.0	2.55	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40440**

Sample ID:	**MB-40440**	Samp Type:	**MBLK**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**7/15/2016**	RunNo:	**87684**
Client ID:	**PBW**	Batch ID:	**40440**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/28/2016**	SeqNo:	**1703565**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	50	50									U
Arsenic	1.5	1.5									U
Barium	25	25									U
Beryllium	1.0	1.0									UG
Cadmium	1.0	1.0									U
Calcium	1,000	1,000									U
Chromium	10	10									U
Cobalt	5.0	5.0									U
Copper	5.0	5.0									UG
Iron	200	200									U
Lead	1.0	1.0									U
Magnesium	500	500									U
Manganese	5.0	5.0									UG
Nickel	10	10									U
Potassium	500	500									U
Selenium	5.0	5.0									U
Sodium	500	500									U
Thallium	2.0	2.0									U
Vanadium	4.0	4.0									U
Zinc	50	50									U

Sample ID:	**LCS-40440**	Samp Type:	**LCS**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**7/15/2016**	RunNo:	**87684**
Client ID:	**LCSW**	Batch ID:	**40440**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/28/2016**	SeqNo:	**1703566**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	200	50	200.0	0	101	84	117				
Arsenic	200	1.5	200.0	0	102	84	116				
Barium	200	25	200.0	0	101	86	114				
Beryllium	190	1.0	200.0	0	95.9	83	121				G
Cadmium	200	1.0	200.0	0	98.5	87	115				
Calcium	2,100	1,000	2,000	0	104	87	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40440**

Sample ID:	LCS-40440	Samp Type:	LCS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	LCSW	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703566

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chromium	200	10	200.0	0	100	85	116				
Cobalt	200	5.0	200.0	0	101	86	115				
Copper	210	5.0	200.0	0	103	85	118				G
Iron	2,100	200	2,000	0	103	87	118				
Lead	200	1.0	200.0	0	102	88	115				
Magnesium	2,100	500	2,000	0	103	83	118				
Manganese	200	5.0	200.0	0	100	87	115				G
Nickel	200	10	200.0	0	101	85	117				
Potassium	2,100	500	2,000	0	103	87	115				
Selenium	200	5.0	200.0	0	99.6	80	120				
Sodium	2,100	500	2,000	0	105	85	117				
Thallium	200	2.0	200.0	0	102	82	116				
Vanadium	200	4.0	200.0	0	99.0	86	115				
Zinc	200	50	200.0	0	97.9	83	119				

Sample ID:	1606631-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	ZZZZZZ	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	7,900	50	200.0	6,986	452	84	117				Q
Arsenic	190	1.5	200.0	0.9000	96.3	84	116				
Barium	260	25	200.0	57.00	102	86	114				
Beryllium	180	1.0	200.0	0.3450	90.2	83	121				G
Cadmium	190	1.0	200.0	0	96.7	87	115				
Calcium	35,000	1,000	2,000	33,940	43.5	87	118				Q
Chromium	190	10	200.0	11.20	90.8	85	116				
Cobalt	190	5.0	200.0	2.175	91.9	86	115				
Copper	190	5.0	200.0	3.295	93.5	85	118				G
Iron	13,000	200	2,000	11,370	89.6	87	118				
Lead	200	1.0	200.0	5.015	98.2	88	115				
Magnesium	8,900	500	2,000	7,020	92.2	83	118				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40440

Sample ID:	1606631-005DMS	Samp Type:	MS	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	ZZZZZZ	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703570

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Manganese	470	5.0	200.0	280.6	95.2	87	115				G
Nickel	190	10	200.0	6.035	92.2	85	117				
Potassium	3,900	500	2,000	2,082	93.0	87	115				
Selenium	180	5.0	200.0	0	91.8	80	120				
Sodium	28,000	500	2,000	25,980	102	85	117				
Thallium	190	2.0	200.0	0.2600	97.3	82	116				
Vanadium	190	4.0	200.0	11.44	89.9	86	115				
Zinc	210	50	200.0	17.14	94.9	83	119				

Sample ID:	1606631-005DMSD	Samp Type:	MSD	Test Code:	SW_6020A	Units:	µg/L	Prep Date:	7/15/2016	RunNo:	87684
Client ID:	ZZZZZZ	Batch ID:	40440	TestNo:	SW6020A	SW3020A		Analysis Date:	7/28/2016	SeqNo:	1703571

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aluminum	8,000	50	200.0	6,986	495	84	117	7,890	1.08	20	Q
Arsenic	200	1.5	200.0	0.9000	99.8	84	116	193.6	3.53	20	
Barium	260	25	200.0	57.00	103	86	114	261.2	0.329	20	
Beryllium	180	1.0	200.0	0.3450	91.6	83	121	180.8	1.53	20	G
Cadmium	190	1.0	200.0	0	97.4	87	115	193.4	0.709	20	
Calcium	36,000	1,000	2,000	33,940	87.0	87	118	34,810	2.46	20	Q
Chromium	200	10	200.0	11.20	93.5	85	116	192.8	2.72	20	
Cobalt	190	5.0	200.0	2.175	93.4	86	115	186.0	1.63	20	
Copper	190	5.0	200.0	3.295	94.4	85	118	190.3	0.902	20	G
Iron	13,000	200	2,000	11,370	106	87	118	13,170	2.39	20	
Lead	200	1.0	200.0	5.015	97.5	88	115	201.3	0.650	20	
Magnesium	8,900	500	2,000	7,020	96.2	83	118	8,865	0.889	20	
Manganese	470	5.0	200.0	280.6	95.4	87	115	470.9	0.0976	20	G
Nickel	190	10	200.0	6.035	93.9	85	117	190.3	1.80	20	
Potassium	4,000	500	2,000	2,082	95.8	87	115	3,942	1.42	20	
Selenium	190	5.0	200.0	0	95.7	80	120	183.6	4.12	20	
Sodium	29,000	500	2,000	25,980	127	85	117	28,020	1.77	20	Q
Thallium	200	2.0	200.0	0.2600	97.7	82	116	194.8	0.433	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **40440**

Sample ID:	**1606631-005DMSD**	Samp Type:	**MSD**	Test Code:	**SW_6020A**	Units:	**µg/L**	Prep Date:	**7/15/2016**	RunNo:	**87684**
Client ID:	**ZZZZZZ**	Batch ID:	**40440**	TestNo:	**SW6020A**	**SW3020A**		Analysis Date:	**7/28/2016**	SeqNo:	**1703571**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Vanadium	200	4.0	200.0	11.44	92.4	86	115	191.3	2.56	20	
Zinc	210	50	200.0	17.14	95.3	83	119	207.0	0.369	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87138

Sample ID:	VOA11B LCS2 0701	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/1/2016	RunNo:	87138
Client ID:	LCSW	Batch ID:	R87138	TestNo:	SW8260B			Analysis Date:	7/1/2016	SeqNo:	1690847

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.2	1.0	10.00	0	91.8	78	124				
1,1,1-Trichloroethane	9.2	1.0	10.00	0	91.5	74	131				
1,1,2,2-Tetrachloroethane	8.9	1.0	10.00	0	89.1	71	121				
1,1,2-Trichloroethane	9.3	1.0	10.00	0	92.9	80	119				
1,1-Dichloroethane	9.9	2.0	10.00	0	99.3	77	125				
1,1-Dichloroethene	10	1.0	10.00	0	101	71	131				
1,2,3-Trichloropropane	8.3	1.0	10.00	0	82.6	73	122				
1,2-Dibromo-3-chloropropane	7.8	5.0	10.00	0	78.4	62	128				Y
1,2-Dibromoethane	9.1	1.0	10.00	0	90.7	77	121				
1,2-Dichloroethane	10	1.0	10.00	0	102	73	128				
1,2-Dichloropropane	9.8	1.0	10.00	0	97.6	78	122				
2-Butanone [MEK]	9.0	10	10.00	0	90.4	56	143				J
2-Hexanone	7.3	2.0	10.00	0	73.2	57	139				
Acetone	11	10	10.00	0	106	39	160				
Benzene	9.8	1.0	10.00	0	97.6	79	120				
Bromodichloromethane	9.3	1.0	10.00	0	93.3	79	125				
Bromoform	5.6	1.0	10.00	0	56.1	66	130				QYZ
Carbon disulfide	9.3	1.0	10.00	0	93.2	64	133				
Carbon tetrachloride	9.5	1.0	10.00	0	95.0	72	136				
Chlorobenzene	9.5	1.0	10.00	0	95.1	82	118				
Chlorodibromomethane	7.0	1.0	10.00	0	69.9	74	126				Q
Chloroethane	11	2.0	10.00	0	112	60	138				
Chloroform	9.8	1.0	10.00	0	97.6	79	124				
Chloromethane	9.1	1.0	10.00	0	91.2	50	139				
cis-1,2-Dichloroethene	9.7	1.0	10.00	0	96.8	78	123				
cis-1,3-Dichloropropene	8.6	1.0	10.00	0	86.2	75	124				
Dichlorodifluoromethane [Freon-12]	11	1.0	10.00	0	107	32	152				
Ethylbenzene	9.0	1.0	10.00	0	90.4	79	121				
Methylene chloride	12	5.0	10.00	0	120	74	124				
Styrene	9.3	1.0	10.00	0	92.8	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87138

Sample ID:	VOA11B LCS2 0701	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/1/2016	RunNo:	87138
Client ID:	LCSW	Batch ID:	R87138	TestNo:	SW8260B			Analysis Date:	7/1/2016	SeqNo:	1690847

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	9.2	1.0	10.00	0	92.5	74	129				
Toluene	9.3	1.0	10.00	0	93.3	80	121				
trans-1,2-Dichloroethene	10	1.0	10.00	0	103	75	124				
trans-1,3-Dichloropropene	8.2	1.0	10.00	0	81.5	73	127				
Trichloroethene	9.2	1.0	10.00	0	92.0	79	123				
Trichlorofluoromethane [Freon-11]	10	1.0	10.00	0	101	65	141				
Vinyl acetate	7.1	5.0	10.00	0	70.7	54	146				
Vinyl chloride	12	1.0	10.00	0	116	58	137				
Xylene (total)	27	3.0	30.00	0	90.7	79	121				
Surr: 4-Bromofluorobenzene	57		60.00		95.8	85	114				
Surr: Dibromofluoromethane	60		60.00		99.6	80	119				
Surr: Toluene-d8	57		60.00		95.8	89	112				

Sample ID:	VOA11B MBLK2 070	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/1/2016	RunNo:	87138
Client ID:	PBW	Batch ID:	R87138	TestNo:	SW8260B			Analysis Date:	7/1/2016	SeqNo:	1690849

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0									U
1,1,1-Trichloroethane	1.0	1.0									U
1,1,2,2-Tetrachloroethane	1.0	1.0									U
1,1,2-Trichloroethane	1.0	1.0									U
1,1-Dichloroethane	2.0	2.0									U
1,1-Dichloroethene	1.0	1.0									U
1,2,3-Trichloropropane	1.0	1.0									U
1,2-Dibromo-3-chloropropane	5.0	5.0									UY
1,2-Dibromoethane	1.0	1.0									U
1,2-Dichloroethane	1.0	1.0									U
1,2-Dichloropropane	1.0	1.0									U
2-Butanone [MEK]	10	10									U
2-Hexanone	2.0	2.0									U
Acetone	0.57	10									J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R87138**

Sample ID:	**VOA11B MBLK2 070**	Samp Type:	**MBLK**	Test Code:	**SW_8260A**	Units:	**µg/L**	Prep Date:	**7/1/2016**	RunNo:	**87138**
Client ID:	**PBW**	Batch ID:	**R87138**	TestNo:	**SW8260B**			Analysis Date:	**7/1/2016**	SeqNo:	**1690849**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	1.0	1.0									U
Bromodichloromethane	1.0	1.0									U
Bromoform	1.0	1.0									UYZ
Carbon disulfide	1.0	1.0									U
Carbon tetrachloride	1.0	1.0									U
Chlorobenzene	1.0	1.0									U
Chlorodibromomethane	1.0	1.0									U
Chloroethane	2.0	2.0									U
Chloroform	1.0	1.0									U
Chloromethane	1.0	1.0									U
cis-1,2-Dichloroethene	1.0	1.0									U
cis-1,3-Dichloropropene	1.0	1.0									U
Dichlorodifluoromethane [Freon-12]	1.0	1.0									U
Ethylbenzene	1.0	1.0									U
Methylene chloride	0.65	5.0									J
Styrene	1.0	1.0									U
Tetrachloroethene	1.0	1.0									U
Toluene	1.0	1.0									U
trans-1,2-Dichloroethene	1.0	1.0									U
trans-1,3-Dichloropropene	1.0	1.0									U
Trichloroethene	1.0	1.0									U
Trichlorofluoromethane [Freon-11]	1.0	1.0									U
Vinyl acetate	5.0	5.0									U
Vinyl chloride	1.0	1.0									U
Xylene (total)	3.0	3.0									U
Surr: 4-Bromofluorobenzene	45		50.00		90.4	85	114				
Surr: Dibromofluoromethane	48		50.00		95.7	80	119				
Surr: Toluene-d8	45		50.00		90.2	89	112				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87138

Sample ID:	1606912-001AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/2/2016	RunNo:	87138
Client ID:	ZZZZZZ	Batch ID:	R87138	TestNo:	SW8260B			Analysis Date:	7/2/2016	SeqNo:	1690857

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.8	1.0	10.00	0	98.2	78	124				
1,1,1-Trichloroethane	10	1.0	10.00	0	100	74	131				
1,1,2,2-Tetrachloroethane	9.0	1.0	10.00	0	90.2	71	121				
1,1,2-Trichloroethane	9.6	1.0	10.00	0	95.6	80	119				
1,1-Dichloroethane	11	2.0	10.00	0	108	77	125				
1,1-Dichloroethene	11	1.0	10.00	0	111	71	131				
1,2,3-Trichloropropane	8.4	1.0	10.00	0	83.7	73	122				
1,2-Dibromo-3-chloropropane	5.8	5.0	10.00	0	58.3	62	128				QY
1,2-Dibromoethane	9.4	1.0	10.00	0	93.7	77	121				
1,2-Dichloroethane	11	1.0	10.00	0	106	73	128				
1,2-Dichloropropane	10	1.0	10.00	0	102	78	122				
2-Butanone [MEK]	9.5	10	10.00	0	94.8	56	143				J
2-Hexanone	7.2	2.0	10.00	0	71.8	57	139				
Acetone	12	10	10.00	0	120	39	160				
Benzene	11	1.0	10.00	0	107	79	120				
Bromodichloromethane	9.8	1.0	10.00	0	97.9	79	125				
Bromoform	5.7	1.0	10.00	0	57.2	66	130				QYZ
Carbon disulfide	9.9	1.0	10.00	0	99.0	64	133				
Carbon tetrachloride	11	1.0	10.00	0	110	72	136				
Chlorobenzene	9.9	1.0	10.00	0	99.4	82	118				
Chlorodibromomethane	7.0	1.0	10.00	0	70.3	74	126				Q
Chloroethane	13	2.0	10.00	0	130	60	138				
Chloroform	10	1.0	10.00	0	104	79	124				
Chloromethane	10	1.0	10.00	0	99.9	50	139				
cis-1,2-Dichloroethene	10	1.0	10.00	0	102	78	123				
cis-1,3-Dichloropropene	8.3	1.0	10.00	0	83.1	75	124				
Dichlorodifluoromethane [Freon-12]	13	1.0	10.00	0	129	32	152				
Ethylbenzene	9.7	1.0	10.00	0	96.6	79	121				
Methylene chloride	12	5.0	10.00	0	122	74	124				
Styrene	9.6	1.0	10.00	0	96.4	78	123				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87138

Sample ID:	1606912-001AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/2/2016	RunNo:	87138
Client ID:	ZZZZZZ	Batch ID:	R87138	TestNo:	SW8260B			Analysis Date:	7/2/2016	SeqNo:	1690857

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Tetrachloroethene	9.8	1.0	10.00	0	98.3	74	129				
Toluene	10	1.0	10.00	0	99.5	80	121				
trans-1,2-Dichloroethene	11	1.0	10.00	0	114	75	124				
trans-1,3-Dichloropropene	8.0	1.0	10.00	0	80.1	73	127				
Trichloroethene	9.6	1.0	10.00	0	96.5	79	123				
Trichlorofluoromethane [Freon-11]	12	1.0	10.00	0	115	65	141				
Vinyl acetate	9.2	5.0	10.00	0	92.1	54	146				
Vinyl chloride	13	1.0	10.00	0	133	58	137				
Xylene (total)	29	3.0	30.00	0	95.5	79	121				
Surr: 4-Bromofluorobenzene	58		60.00		96.3	85	114				
Surr: Dibromofluoromethane	61		60.00		101	80	119				
Surr: Toluene-d8	58		60.00		96.4	89	112				

Sample ID:	1606912-001AMSD	Samp Type:	MSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/2/2016	RunNo:	87138
Client ID:	ZZZZZZ	Batch ID:	R87138	TestNo:	SW8260B			Analysis Date:	7/2/2016	SeqNo:	1690858

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	9.7	1.0	10.00	0	96.7	78	124	9.820	1.54	25	
1,1,1-Trichloroethane	10	1.0	10.00	0	101	74	131	10.00	0.698	25	
1,1,2,2-Tetrachloroethane	8.5	1.0	10.00	0	84.9	71	121	9.020	6.05	25	
1,1,2-Trichloroethane	9.1	1.0	10.00	0	91.1	80	119	9.560	4.82	25	
1,1-Dichloroethane	11	2.0	10.00	0	110	77	125	10.85	1.01	25	
1,1-Dichloroethene	11	1.0	10.00	0	112	71	131	11.14	0.894	25	
1,2,3-Trichloropropane	8.2	1.0	10.00	0	82.2	73	122	8.370	1.81	25	
1,2-Dibromo-3-chloropropane	5.7	5.0	10.00	0	56.8	62	128	5.830	2.61	25	QY
1,2-Dibromoethane	9.0	1.0	10.00	0	89.9	77	121	9.370	4.14	25	
1,2-Dichloroethane	11	1.0	10.00	0	107	73	128	10.63	0.843	25	
1,2-Dichloropropane	9.9	1.0	10.00	0	99.4	78	122	10.19	2.48	25	
2-Butanone [MEK]	9.4	10	10.00	0	93.8	56	143	9.480	1.06	25	J
2-Hexanone	7.2	2.0	10.00	0	71.8	57	139	7.180	0	25	
Acetone	11	10	10.00	0	114	39	160	11.96	5.06	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** R87138

Sample ID:	1606912-001AMSD	Samp Type:	MSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	7/2/2016	RunNo:	87138
Client ID:	ZZZZZZ	Batch ID:	R87138	TestNo:	SW8260B			Analysis Date:	7/2/2016	SeqNo:	1690858

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene	11	1.0	10.00	0	109	79	120	10.70	1.94	25	
Bromodichloromethane	9.8	1.0	10.00	0	97.8	79	125	9.790	0.102	25	
Bromoform	5.6	1.0	10.00	0	56.4	66	130	5.720	1.41	25	QYZ
Carbon disulfide	10	1.0	10.00	0	100	64	133	9.900	1.01	25	
Carbon tetrachloride	11	1.0	10.00	0	106	72	136	10.96	3.15	25	
Chlorobenzene	10	1.0	10.00	0	101	82	118	9.940	1.89	25	
Chlorodibromomethane	7.0	1.0	10.00	0	70.0	74	126	7.030	0.428	25	Q
Chloroethane	13	2.0	10.00	0	130	60	138	12.95	0.385	25	
Chloroform	10	1.0	10.00	0	104	79	124	10.44	0.192	25	
Chloromethane	10	1.0	10.00	0	100	50	139	9.990	0.499	25	
cis-1,2-Dichloroethene	10	1.0	10.00	0	103	78	123	10.15	1.47	25	
cis-1,3-Dichloropropene	8.2	1.0	10.00	0	81.7	75	124	8.310	1.70	25	
Dichlorodifluoromethane [Freon-12]	13	1.0	10.00	0	128	32	152	12.93	1.01	25	
Ethylbenzene	9.7	1.0	10.00	0	97.3	79	121	9.660	0.722	25	
Methylene chloride	12	5.0	10.00	0	124	74	124	12.18	1.95	25	Q
Styrene	9.7	1.0	10.00	0	96.8	78	123	9.640	0.414	25	
Tetrachloroethene	9.6	1.0	10.00	0	96.4	74	129	9.830	1.95	25	
Toluene	10	1.0	10.00	0	100	80	121	9.950	0.601	25	
trans-1,2-Dichloroethene	12	1.0	10.00	0	115	75	124	11.35	1.31	25	
trans-1,3-Dichloropropene	7.7	1.0	10.00	0	76.9	73	127	8.010	4.08	25	
Trichloroethene	9.8	1.0	10.00	0	98.4	79	123	9.650	1.95	25	
Trichlorofluoromethane [Freon-11]	12	1.0	10.00	0	117	65	141	11.53	1.72	25	
Vinyl acetate	9.1	5.0	10.00	0	91.4	54	146	9.210	0.763	25	
Vinyl chloride	13	1.0	10.00	0	131	58	137	13.28	1.36	25	
Xylene (total)	29	3.0	30.00	0	97.1	79	121	28.64	1.66	25	
Surr: 4-Bromofluorobenzene	58		60.00		96.3	85	114		0	25	
Surr: Dibromofluoromethane	61		60.00		102	80	119		0	25	
Surr: Toluene-d8	58		60.00		96.3	89	112		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606936

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606936

AECOM

PAGE 1 OF 1

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	062316 -01
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/8270D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/8270D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
1 H17-SB02	-	-	N	1	H17-SB02-GW	6/21/16	1040	WG	7	083	3			2			1	1			VOCs, SVOCs, PCBs, met
107-WP01	-	-	N	1	107-WP01-01	6/19/16	0910	WP	1	083	X Kal						1				NO VOCs → was
107-CC01	-	-	N	1	107-CC01-01	6/19/16	0900	CC	1	083	X	Kal					1				error on chain
107-LC01	-	-	N	1	107-LC01-01	6/19/16	0920	LC	1	083	X	Kal					1				"
2 Field QC	-	-	TB	1	TB-GW-062116-03	6/21/16	0820	WQ	3	083	3										VOC TB

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time		
Amanda Martin	6/23/16	1200	Transfer to FedEx	6/23/16	1200		
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time		
			Mike Dalton	6/28/16	09:55		
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time		

Comments

Shipment Method/Airbill No. 8103 0202 9755

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

CUSTODY SEALS

Date 6/25/16

Signature

CUSTODY SEALS

Date 6/25/16

Signature

FedEx. TRK# 0215 8103 0202 4755

TUE - 28 JUN AA
EXPRESS SAVER

KC CFAA

48150
MI-US
DTW

'30BD/6A08

Cooler Temp Blank
22.6°C
Cooler #83

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Thursday, August 25, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1606937

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1606937

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1606937-001A	107-WP01-01		6/19/2016 9:10 AM	6/28/2016 9:38 AM	Wipe
1606937-002A	107-CC01-01		6/19/2016 9:00 AM	6/28/2016 9:38 AM	Solid
1606937-003A	107-LC01-01		6/19/2016 9:20 AM	6/28/2016 9:38 AM	Solid

RTI Laboratories - Case Narrative

WO#: 1606937

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
Polychlorinated Biphenyls - 8082A
Polychlorinated Biphenyls - SW8082A

Sample 1606937-003A was unable to processed for PCB Analysis via method SW_8082. Client notified and analysis cancelled.

Analytical Comments for Test SW_8082S, Analytical Run No 87680, Batch ID 40484:
Sample 1606937-002A: TCM and DCA recovery exceeds QC control limits, %RPD difference is>40%

Analytical Comments for Test SW_8082W, Analytical Run No 87630, Batch ID 40498:
Sample LCS-40498: Recovery for Aroclor 1016 (62.8%) exceeded control limits - LCSD recovery was within control limits.
Sample LCSD-40498: RPD result was elevated for Aroclor 1016.

Analytical Comments for Test SW_8082W, Analytical Run No 87635, Batch ID 40498:
Sample LCS-40498: Recovery for Aroclor 1016 (66.1%) exceeded control limits - LCSD recovery was within control limits.
Sample LCSD-40498: RPD result was elevated for Aroclor 1016.

RTI Laboratories - Analytical Report

WO#: 1606937

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/19/2016 9:10:00 AM
Project:	Camp Hero		
Lab ID:	1606937-001	**Matrix:**	Wipe
Client Sample ID:	107-WP01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A-WIPE**					**Analyst: ABP**
Aroclor 1016	0.00025	UQ	0.00025	0.00025	0.00025	mg	1	7/22/2016 11:10 PM
Aroclor 1221	0.00025	U	0.00025	0.00025	0.00025	mg	1	7/22/2016 11:10 PM
Aroclor 1232	0.00025	U	0.00025	0.00025	0.00025	mg	1	7/22/2016 11:10 PM
Aroclor 1242	0.00025	U	0.00025	0.00025	0.00025	mg	1	7/22/2016 11:10 PM
Aroclor 1248	0.00025	U	0.00025	0.00025	0.00025	mg	1	7/22/2016 11:10 PM
Aroclor 1254	0.00025	U	0.00025	0.00025	0.00025	mg	1	7/22/2016 11:10 PM
Aroclor 1260	0.00025	U	0.00025	0.00025	0.00025	mg	1	7/22/2016 11:10 PM
Surr: Tetrachloro-m-xylene	117			70-130		%Rec	1	7/22/2016 11:10 PM
Surr: Decachlorobiphenyl	128			70-130		%Rec	1	7/22/2016 11:10 PM

RTI Laboratories - Analytical Report

WO#: 1606937

Date Reported: 8/25/2016
Revision v1

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	6/19/2016 9:00:00 AM
Project:	Camp Hero		
Lab ID:	1606937-002	**Matrix:**	Solid
Client Sample ID:	107-CC01-01		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Polychlorinated Biphenyls			**Method: 8082A**		**SW3546**			**Analyst: ABP**
Aroclor 1016	0.0065	U	0.0029	0.0065	0.032	mg/Kg	1	7/25/2016 4:52 AM
Aroclor 1221	0.0065	U	0.0029	0.0065	0.032	mg/Kg	1	7/25/2016 4:52 AM
Aroclor 1232	0.0065	U	0.0044	0.0065	0.032	mg/Kg	1	7/25/2016 4:52 AM
Aroclor 1242	0.0065	U	0.0036	0.0065	0.032	mg/Kg	1	7/25/2016 4:52 AM
Aroclor 1248	0.0065	U	0.0034	0.0065	0.032	mg/Kg	1	7/25/2016 4:52 AM
Aroclor 1254	0.0092	JP	0.0041	0.0065	0.032	mg/Kg	1	7/25/2016 4:52 AM
Aroclor 1260	0.0065	U	0.0029	0.0065	0.032	mg/Kg	1	7/25/2016 4:52 AM
Aroclor 1262	0.0065	U	0.0029	0.0065	0.032	mg/Kg	1	7/25/2016 4:52 AM
Aroclor 1268	0.0065	U	0.0024	0.0065	0.032	mg/Kg	1	7/25/2016 4:52 AM
Surr: Tetrachloro-m-xylene	36.2	Q		44-130		%Rec	1	7/25/2016 4:52 AM
Surr: Decachlorobiphenyl	47.7	Q		60-125		%Rec	1	7/25/2016 4:52 AM

RTI Laboratories - DATES REPORT

WO#: 1606937

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1606937-001A	107-WP01-01	6/19/2016 9:10 AM	Wipe				
				SW_8082W-Polychlorinated Biphenyls		7/21/2016 8:26 AM	7/22/2016 11:10 PM
1606937-002A	107-CC01-01	6/19/2016 9:00 AM	Solid				
				SW_8082S-Polychlorinated Biphenyls		7/20/2016 8:16 AM	7/25/2016 4:52 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606937

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40484

Sample ID:	1606652-005EMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87680
Client ID:	ZZZZZZ	Batch ID:	40484	TestNo:	SW8082	SW3546		Analysis Date:	7/24/2016	SeqNo:	1703367

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.15	0.034	0.17	0	88.2	46	129				
Aroclor 1260	0.15	0.034	0.17	0	90.1	45	134				
Surr: Tetrachloro-m-xylene	7.2		8.583		83.7	44	130				
Surr: Decachlorobiphenyl	7.9		8.583		91.7	40	135				

Sample ID:	1606652-005EMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	mg/Kg-dry	Prep Date:	7/20/2016	RunNo:	87680
Client ID:	ZZZZZZ	Batch ID:	40484	TestNo:	SW8082	SW3546		Analysis Date:	7/24/2016	SeqNo:	1703368

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.18	0.034	0.17	0	106	46	129	0.15	18.5	25	
Aroclor 1260	0.18	0.034	0.17	0	103	45	134	0.15	13.6	25	
Surr: Tetrachloro-m-xylene	8.4		8.563		98.3	44	130		0	25	
Surr: Decachlorobiphenyl	9.1		8.563		106	40	135		0	25	

Sample ID:	LCS-40484	Samp Type:	LCS	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87680
Client ID:	LCSS	Batch ID:	40484	TestNo:	SW8082	SW3546		Analysis Date:	7/24/2016	SeqNo:	1703406

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.16	0.032	0.16	0	95.9	46	129				
Aroclor 1260	0.15	0.032	0.16	0	91.3	45	134				
Surr: Tetrachloro-m-xylene	6.7		8.146		82.8	44	130				
Surr: Decachlorobiphenyl	7.6		8.146		93.1	40	135				

Sample ID:	MB-40484	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87680
Client ID:	PBS	Batch ID:	40484	TestNo:	SW8082	SW3546		Analysis Date:	7/24/2016	SeqNo:	1703408

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.033	0.033									U
Aroclor 1221	0.033	0.033									U
Aroclor 1232	0.033	0.033									U
Aroclor 1242	0.033	0.033									U
Aroclor 1248	0.033	0.033									U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606937

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40484

Sample ID:	MB-40484	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	mg/Kg	Prep Date:	7/20/2016	RunNo:	87680
Client ID:	PBS	Batch ID:	40484	TestNo:	SW8082	SW3546		Analysis Date:	7/24/2016	SeqNo:	1703408

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	0.033	0.033									U
Aroclor 1260	0.033	0.033									U
Aroclor 1262	0.033	0.033									U
Aroclor 1268	0.033	0.033									U
Surr: Tetrachloro-m-xylene	7.0		8.300		84.5	44	130				
Surr: Decachlorobiphenyl	8.1		8.300		97.3	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606937

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40498**

Sample ID:	LCS-40498	Samp Type:	LCS	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87630
Client ID:	LCSS	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702155

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	3.1	0.00025	5.000	0	62.8	70	130				Q
Aroclor 1260	4.5	0.00025	5.000	0	89.7	70	130				
Surr: Tetrachloro-m-xylene	0.063		0.2500		25.2	70	130				Q
Surr: Decachlorobiphenyl	0.24		0.2500		95.2	70	130				

Sample ID:	LCSD-40498	Samp Type:	LCSD	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87630
Client ID:	LCSS02	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702156

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	5.7	0.00025	5.000	0	114	70	130	3.142	58.2	25	R
Aroclor 1260	5.5	0.00025	5.000	0	111	70	130	4.484	21.1	25	
Surr: Tetrachloro-m-xylene	0.24		0.2500		96.2	70	130		0	25	
Surr: Decachlorobiphenyl	0.30		0.2500		120	70	130		0	25	

Sample ID:	MB-40498	Samp Type:	MBLK	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87630
Client ID:	PBS	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702157

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.00025	0.00025									U
Aroclor 1221	0.00025	0.00025									U
Aroclor 1232	0.00025	0.00025									U
Aroclor 1242	0.00025	0.00025									U
Aroclor 1248	0.00025	0.00025									U
Aroclor 1254	0.00025	0.00025									U
Aroclor 1260	0.00025	0.00025									U
Surr: Tetrachloro-m-xylene	0.13		0.2500		50.6	70	130				Q
Surr: Decachlorobiphenyl	0.29		0.2500		114	70	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1606937

Date Reported: 8/25/2016
Revision v1

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40498

Sample ID:	LCS-40498	Samp Type:	LCS	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87635
Client ID:	LCSS	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702284

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	3.3	0.00025	5.000	0	66.1	70	130				Q
Aroclor 1260	4.7	0.00025	5.000	0	94.8	70	130				
Surr: Tetrachloro-m-xylene	0.085		0.2500		34.1	70	130				Q
Surr: Decachlorobiphenyl	0.25		0.2500		99.5	70	130				

Sample ID:	MB-40498	Samp Type:	MBLK	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87635
Client ID:	PBS	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702286

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	0.00025	0.00025									U
Aroclor 1221	0.00025	0.00025									U
Aroclor 1232	0.00025	0.00025									U
Aroclor 1242	0.00025	0.00025									U
Aroclor 1248	0.00025	0.00025									U
Aroclor 1254	0.00025	0.00025									U
Aroclor 1260	0.00025	0.00025									U
Surr: Tetrachloro-m-xylene	0.23		0.2500		91.4	70	130				
Surr: Decachlorobiphenyl	0.30		0.2500		119	70	130				

Sample ID:	LCSD-40498	Samp Type:	LCSD	Test Code:	SW_8082W	Units:	mg	Prep Date:	7/21/2016	RunNo:	87635
Client ID:	LCSS02	Batch ID:	40498	TestNo:	SW8082			Analysis Date:	7/22/2016	SeqNo:	1702772

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	4.8	0.00025	5.000	0	96.7	70	130	3.306	37.6	25	R
Aroclor 1260	5.8	0.00025	5.000	0	115	70	130	4.739	19.4	25	
Surr: Tetrachloro-m-xylene	0.24		0.2500		97.2	70	130		0	25	
Surr: Decachlorobiphenyl	0.31		0.2500		123	70	130		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1606937

Date Reported: 8/25/2016
Revision v1

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

1606937

AECOM

PAGE 1 OF 1

Laboratory	Project Name	Chain of Custody
RTI Laboratories	Camp Hero	062316 -01
Address	**Point of Contact / Phone No.**	Batch May16
31628 Glendale Street	Devon Chicoine (703) 682-9069	
City / **State** / **Zip Code**	**Site Contact / Phone No.**	
Livonia / MI / 48150	Amanda Martin (434) 664-8047	

Database Information | Other Sample Information | Analysis

LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.	VOCs (8260B)	VOCs STAR GAS (8260B)	VOCs STAR FUEL (8260B)	SVOC-PNA (8270D/82070D-SIM Mod)	SVOC-PNA STAR FUEL (8270D/82070D-SIM)	PNA (8270D-SIM)	PCBs (8082A)	Metals (6020)	Lead (6020)	Energetics (8330B)	Comment
H17-SB02	-	-	N	1	H17-SB02-GW	6/21/16	1040	WG	7	083	3			2			1	1			VOCs, SVOCs, PCBs, Me
1 107-WP01	-	-	N	1	107-WP01-01	6/19/16	0910	WP	1	083	X	Kal					1				NO VOCs → Was
2 107-CC01	-	-	N	1	107-CC01-01	6/19/16	0900	CC	1	083	X	Kal					1				error on chain
3 107-LC01	-	-	N	1	107-LC01-01	6/19/16	0920	LC	1	083	X	Kal					1				"
Field QC	-	-	TB	1	TB-GW-062116-03	6/21/16	0820	WQ	3	083	3										VOC TB

1. Relinquished By / Company: Amanda Martin	Date: 6/23/16	Time: 1200	1. Received By / Company: Transfer to FedEx	Date: 6/23/16	Time: 1200
2. Relinquished By / Company	Date:	Time:	2. Received By / Company	Date: 6/28/16	Time: 0915S
3. Relinquished By / Company	Date:	Time:	3. Received By / Company	Date:	Time:

Comments

Shipment Method/Airbill No.: 8105 0202 9755

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

WATER SAMPLES

CUSTODY SEALS

Date 6/25/16

Signature

CUSTODY SEALS

Date 6/25/16

Signature

FedEx
TRK# 0215 8103 0202 4755

TUE - 28 JUN AA
EXPRESS SAVER

KC CFAA

48150
MI-US
DTW

'30BD/6A08

Cooler Temp Blank
20.6°C

Cooler #83

Appendix G2

Laboratory Investigation-Derived Waste Analytical Report

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RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Wednesday, September 21, 2016

Devon Chicoine
AECOM Design and Consulting Services (DCS)
3101 Wilson Blvd Ste 900
Arlington, VA 22201
TEL:
FAX:

RE: Camp Hero

Work Order #: 1608800

Dear Devon Chicoine:

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Katherine Griffin

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1608800-001A	CH-ST-082016		8/20/2016 12:30 PM	8/23/2016 10:46 AM	Solid
1608800-001B	CH-ST-082016		8/20/2016 12:30 PM	8/23/2016 10:46 AM	Solid
1608800-002A	CH-WW-082016		8/20/2016 1:00 PM	8/23/2016 10:46 AM	Water
1608800-002B	CH-WW-082016		8/20/2016 1:00 PM	8/23/2016 10:46 AM	Water

RTI Laboratories - Case Narrative

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated. These analytes are not routinely reviewed nor narrated below as to their potential for being laboratory artifacts.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

Sample Analysis:
Samples were analyzed at the RTI Laboratories
- Ignitability - SW1010
- Ignitability - SW1030
- Metals, ICP/OES - SW6010C
- Reactivity, Cyanide - SW7.3.3.2
- Reactivity, Sulfide - SW7.3.4.2
- Mercury - SW7470A
- Volatile Organic Compounds - SW8260C
- Semi-Volatile Organic Compounds - SW8270D
- Solid pH Measured in Water at Reported Temperature - SW9045D

Analytical Comments for Test SW_6010A, Analytical Run No 88519, Batch ID 40893:
Sample 1608800-001AMS: Recoveries for Arsenic, Chromium, Lead and Selenium exceeded control limits. Suspected matrix interference for Selenium.
Sample 1608800-001AMSD: Recoveries for Chromium, Lead and Selenium exceeded control limits. Suspected matrix interference for Selenium.

Analytical Comments for Test SW_7.3.3.2, Analytical Run No 88952, Batch ID 41082:
Sample LCS-41082: Recovery for Reactive Cyanide exceeded control limits.
Sample LCSD-41082: Recovery for Reactive Cyanide exceeded control limits.

Analytical Comments for Test SW_7.3.4.2, Analytical Run No 88946, Batch ID 41082:
Sample LCS-41082: Recovery for Reactive Sulfide exceeded control limits.
Sample LCSD-41082: Recovery for Reactive Sulfide exceeded control limits.

Analytical Comments for Test SW_8270A, Analytical Run No 88679, Batch ID 40932:
Sample 1608800-001AMSD: Spike recovery for Pyridine was outside the control limits. RPDs for Hexachlorobutadiene, Hexachloroethane, Nitrobenzene, Pyridine exceeded control limits.

Analytical Comments for Test SW_8270A, Analytical Run No 88679, Batch ID R88679:
Sample CCV S8 090816: Pentachlorophenol, and Pyridine exceeded 20% criteria.

RTI Laboratories - Analytical Report

WO#: 1608800

Date Reported: 9/21/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	8/20/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1608800-001	**Matrix:**	Solid
Client Sample ID:	CH-ST-082016		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Reactivity, Corrosivity, Ignitability Reactivity, Cyanide			**Method: SW7.3.3.2**					**Analyst: EL**
Cyanide, Reactive	1.0	UQ	1.0	1.0	1.0	mg/Kg	1	9/20/2016 5:13 PM
TCLP: RCRA Metals, VOCs, SVOCs Metals, ICP/OES			**Method: SW6010C**		**SW3020A**			**Analyst: BSK**
Arsenic	37	JX	7.3	20	40	µg/L	1	8/30/2016 5:47 PM
Barium	550		72	100	200	µg/L	1	8/30/2016 5:47 PM
Cadmium	93		0.67	1.0	5.0	µg/L	1	8/30/2016 5:47 PM
Chromium	140	X	1.8	8.0	10	µg/L	1	8/30/2016 5:47 PM
Lead	93	JX	12	20	100	µg/L	1	8/30/2016 5:47 PM
Selenium	30	UX	24	30	40	µg/L	1	8/30/2016 5:47 PM
Silver	120		5.1	10	20	µg/L	1	8/30/2016 5:47 PM
TCLP: RCRA Metals, VOCs, SVOCs Mercury			**Method: SW7470A**		**SW7470**			**Analyst: NK**
Mercury	0.10	U	0.052	0.10	0.20	µg/L	1	8/31/2016 1:47 PM
TCLP: RCRA Metals, VOCs, SVOCs Semi-Volatile Organic Compounds			**Method: SW8270D**		**SW3510C**			**Analyst: KAL**
2,4,5-Trichlorophenol	12	U	5.6	12	25	µg/L	1	9/8/2016 12:36 PM
2,4,6-Trichlorophenol	5.0	U	4.8	5.0	20	µg/L	1	9/8/2016 12:36 PM
2,4-Dinitrotoluene	5.0	U	3.0	5.0	25	µg/L	1	9/8/2016 12:36 PM
2-Methylphenol	5.0	U	5.0	5.0	25	µg/L	1	9/8/2016 12:36 PM
3/4 Methylphenol	25	U	9.2	25	50	µg/L	1	9/8/2016 12:36 PM
Hexachlorobenzene	5.0	U	3.1	5.0	25	µg/L	1	9/8/2016 12:36 PM
Hexachlorobutadiene	5.0	U	4.3	5.0	25	µg/L	1	9/8/2016 12:36 PM
Hexachloroethane	5.0	U	3.7	5.0	25	µg/L	1	9/8/2016 12:36 PM
Nitrobenzene	12	U	6.1	12	25	µg/L	1	9/8/2016 12:36 PM
Pentachlorophenol	5.0	UY	4.6	5.0	25	µg/L	1	9/8/2016 12:36 PM
Pyridine	120	UXY	2.6	120	50	µg/L	1	9/8/2016 12:36 PM
Surr: 2,4,6-Tribromophenol	78.0			43-140		%Rec	1	9/8/2016 12:36 PM
Surr: 2-Fluorobiphenyl	64.2			44-119		%Rec	1	9/8/2016 12:36 PM
Surr: 2-Fluorophenol	54.7			19-119		%Rec	1	9/8/2016 12:36 PM
Surr: Nitrobenzene-d5	67.6			44-120		%Rec	1	9/8/2016 12:36 PM
Surr: Phenol-d5	68.2			30-130		%Rec	1	9/8/2016 12:36 PM
Surr: Terphenyl-d14	85.9			50-134		%Rec	1	9/8/2016 12:36 PM
TCLP: RCRA Metals, VOCs, SVOCs Volatile Organic Compounds			**Method: SW8260C**		**SW1311B**			**Analyst: GLQ**
1,1-Dichloroethene	120	U	96	120	200	µg/L	200	8/30/2016 4:40 PM
1,2-Dichloroethane	120	U	56	120	200	µg/L	200	8/30/2016 4:40 PM
1,4-Dichlorobenzene	120	U	96	120	200	µg/L	200	8/30/2016 4:40 PM
Benzene	120	U	77	120	200	µg/L	200	8/30/2016 4:40 PM
Carbon tetrachloride	120	U	78	120	200	µg/L	200	8/30/2016 4:40 PM
Chlorobenzene	120	U	94	120	200	µg/L	200	8/30/2016 4:40 PM
Chloroform	120	U	92	120	200	µg/L	200	8/30/2016 4:40 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	8/20/2016 12:30:00 PM
Project:	Camp Hero		
Lab ID:	1608800-001	**Matrix:**	Solid
Client Sample ID:	CH-ST-082016		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Methyl ethyl ketone	1,000	U	450	1,000	2,000	µg/L	200	8/30/2016 4:40 PM
Tetrachloroethene	120	U	110	120	200	µg/L	200	8/30/2016 4:40 PM
Trichloroethene	120	U	96	120	200	µg/L	200	8/30/2016 4:40 PM
Vinyl chloride	120	U	100	120	200	µg/L	200	8/30/2016 4:40 PM
Surr: 4-Bromofluorobenzene	94.5			85-114		%Rec	200	8/30/2016 4:40 PM
Surr: Dibromofluoromethane	108			80-119		%Rec	200	8/30/2016 4:40 PM
Surr: Toluene-d8	101			89-112		%Rec	200	8/30/2016 4:40 PM
Reactivity, Corrosivity, Ignitability Ignitability			**Method: SW1030**					**Analyst: EL**
Ignitability	0.10	U	0.10	0.10	0.10	mm/sec	1	9/9/2016 10:00 AM
Reactivity, Corrosivity, Ignitability Reactivity, Sulfide			**Method: SW7.3.4.2**					**Analyst: STM**
Sulfide, Reactive	2.0	UQ	2.0	2.0	2.0	mg/Kg	1	9/19/2016 9:02 AM
Reactivity, Corrosivity, Ignitability Solid pH Measured in Water at Reported Temperature			**Method: SW9045D**					**Analyst: STM**
Hydrogen Ion (pH)	7.64					pH Units	1	8/25/2016 11:40 AM
Temperature	25.4					°C	1	8/25/2016 11:40 AM

RTI Laboratories - Analytical Report

WO#: 1608800

Date Reported: 9/21/2016
Original

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	8/20/2016 1:00:00 PM
Project:	Camp Hero		
Lab ID:	1608800-002	**Matrix:**	Water
Client Sample ID:	CH-WW-082016		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Reactivity, Corrosivity, Ignitability Reactivity, Cyanide			**Method: SW7.3.3.2**					**Analyst: EL**
Cyanide, Reactive	0.050	UQ	0.050	0.050	0.050	mg/Kg	1	9/20/2016 5:13 PM
TCLP: RCRA Metals, VOCs, SVOCs Metals, ICP/OES			**Method: SW6010C**		**SW3020A**			**Analyst: BSK**
Arsenic	23	JG	7.3	20	40	µg/L	1	8/30/2016 3:10 PM
Barium	220		72	100	200	µg/L	1	8/30/2016 3:10 PM
Cadmium	1.9	J	0.67	1.0	5.0	µg/L	1	8/30/2016 3:10 PM
Chromium	98		1.8	8.0	10	µg/L	1	8/30/2016 3:10 PM
Lead	36	J	12	20	100	µg/L	1	8/30/2016 3:10 PM
Selenium	30	U	24	30	40	µg/L	1	8/30/2016 3:10 PM
Silver	10	U	5.1	10	20	µg/L	1	8/30/2016 3:10 PM
TCLP: RCRA Metals, VOCs, SVOCs Mercury			**Method: SW7470A**		**SW7470**			**Analyst: NK**
Mercury	0.26		0.052	0.10	0.20	µg/L	1	8/31/2016 2:05 PM
TCLP: RCRA Metals, VOCs, SVOCs Semi-Volatile Organic Compounds			**Method: SW8270D**		**SW3510C**			**Analyst: KAL**
2,4,5-Trichlorophenol	12	U	5.6	12	25	µg/L	1	9/8/2016 1:49 PM
2,4,6-Trichlorophenol	5.0	U	4.8	5.0	20	µg/L	1	9/8/2016 1:49 PM
2,4-Dinitrotoluene	5.0	U	3.0	5.0	25	µg/L	1	9/8/2016 1:49 PM
2-Methylphenol	5.0	U	5.0	5.0	25	µg/L	1	9/8/2016 1:49 PM
3/4 Methylphenol	25	U	9.2	25	50	µg/L	1	9/8/2016 1:49 PM
Hexachlorobenzene	5.0	U	3.1	5.0	25	µg/L	1	9/8/2016 1:49 PM
Hexachlorobutadiene	5.0	U	4.3	5.0	25	µg/L	1	9/8/2016 1:49 PM
Hexachloroethane	5.0	U	3.7	5.0	25	µg/L	1	9/8/2016 1:49 PM
Nitrobenzene	12	U	6.1	12	25	µg/L	1	9/8/2016 1:49 PM
Pentachlorophenol	5.0	UY	4.6	5.0	25	µg/L	1	9/8/2016 1:49 PM
Pyridine	120	UY	2.6	120	50	µg/L	1	9/8/2016 1:49 PM
Surr: 2,4,6-Tribromophenol	73.2			43-140		%Rec	1	9/8/2016 1:49 PM
Surr: 2-Fluorobiphenyl	63.5			44-119		%Rec	1	9/8/2016 1:49 PM
Surr: 2-Fluorophenol	52.0			19-119		%Rec	1	9/8/2016 1:49 PM
Surr: Nitrobenzene-d5	61.6			44-120		%Rec	1	9/8/2016 1:49 PM
Surr: Phenol-d5	72.8			30-130		%Rec	1	9/8/2016 1:49 PM
Surr: Terphenyl-d14	71.6			50-134		%Rec	1	9/8/2016 1:49 PM
TCLP: RCRA Metals, VOCs, SVOCs Volatile Organic Compounds			**Method: SW8260C**		**SW1311B**			**Analyst: GLQ**
1,1-Dichloroethene	120	U	96	120	200	µg/L	200	8/30/2016 4:15 PM
1,2-Dichloroethane	120	U	56	120	200	µg/L	200	8/30/2016 4:15 PM
1,4-Dichlorobenzene	120	U	96	120	200	µg/L	200	8/30/2016 4:15 PM
Benzene	120	U	77	120	200	µg/L	200	8/30/2016 4:15 PM
Carbon tetrachloride	120	U	78	120	200	µg/L	200	8/30/2016 4:15 PM
Chlorobenzene	120	U	94	120	200	µg/L	200	8/30/2016 4:15 PM
Chloroform	120	U	92	120	200	µg/L	200	8/30/2016 4:15 PM

Client:	AECOM Design and Consulting Services (DCS)	**Collection Date:**	8/20/2016 1:00:00 PM
Project:	Camp Hero		
Lab ID:	1608800-002	**Matrix:**	Water
Client Sample ID:	CH-WW-082016		

Analysis	Result	Qual	DL	LOD	LOQ	Units	DF	Date Analyzed
Methyl ethyl ketone	1,000	U	450	1,000	2,000	µg/L	200	8/30/2016 4:15 PM
Tetrachloroethene	120	U	110	120	200	µg/L	200	8/30/2016 4:15 PM
Trichloroethene	120	U	96	120	200	µg/L	200	8/30/2016 4:15 PM
Vinyl chloride	120	U	100	120	200	µg/L	200	8/30/2016 4:15 PM
Surr: 4-Bromofluorobenzene	95.3			85-114		%Rec	200	8/30/2016 4:15 PM
Surr: Dibromofluoromethane	108			80-119		%Rec	200	8/30/2016 4:15 PM
Surr: Toluene-d8	101			89-112		%Rec	200	8/30/2016 4:15 PM
Reactivity, Corrosivity, Ignitability Ignitability			**Method: SW1010**					**Analyst: EL**
Ignitability	70	U	70	70	70	°F	1	9/9/2016 10:00 AM
Reactivity, Corrosivity, Ignitability Reactivity, Sulfide			**Method: SW7.3.4.2**					**Analyst: STM**
Sulfide, Reactive	0.10	UQ	0.10	0.10	0.10	mg/Kg	1	9/19/2016 9:02 AM
Reactivity, Corrosivity, Ignitability Solid pH Measured in Water at Reported Temperature			**Method: SW9045D**					**Analyst: STM**
Hydrogen Ion (pH)	9.83					pH Units	1	8/25/2016 11:40 AM

RTI Laboratories - DATES REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1608800-001A	CH-ST-082016	8/20/2016 12:30 PM	Solid				
				SW_7470A-Mercury	8/29/2016 2:00 PM	8/31/2016 7:53 AM	8/31/2016 1:47 PM
				SW_6010A-Metals, ICP/OES	8/29/2016 2:00 PM	8/30/2016 10:48 AM	8/30/2016 5:47 PM
				SW_8270A-Semi-Volatile Organic Compounds	8/29/2016 2:00 PM	9/5/2016 9:08 AM	9/8/2016 12:36 PM
				SW_8260A-Volatile Organic Compounds	8/29/2016 2:00 PM	8/29/2016 2:00 PM	8/30/2016 4:40 PM
1608800-001B	CH-ST-082016	8/20/2016 12:30 PM	Solid				
				SW_1030S-Ignitability		9/9/2016 10:00 AM	9/9/2016 10:00 AM
				SW_7.3.3.2-Reactivity, Cyanide		9/19/2016 10:15 AM	9/20/2016 5:13 PM
				SW_7.3.4.2-Reactivity, Sulfide		9/19/2016 10:15 AM	9/19/2016 9:02 AM
				SW_9045-Solid pH Measured in Water at Reported Temperature		8/25/2016 11:40 AM	8/25/2016 11:40 AM
1608800-002A	CH-WW-082016	8/20/2016 1:00 PM	Water				
				SW_7470A-Mercury	8/29/2016 2:00 PM	8/31/2016 8:38 AM	8/31/2016 2:05 PM
				SW_6010A-Metals, ICP/OES	8/29/2016 2:00 PM	8/30/2016 10:19 AM	8/30/2016 3:10 PM
				SW_8270A-Semi-Volatile Organic Compounds	8/29/2016 2:00 PM	9/5/2016 9:08 AM	9/8/2016 1:49 PM
				SW_8260A-Volatile Organic Compounds	8/29/2016 2:00 PM	8/29/2016 2:00 PM	8/30/2016 4:15 PM
1608800-002B	CH-WW-082016	8/20/2016 1:00 PM	Water				
				SW_1010-Ignitability		9/9/2016 10:00 AM	9/9/2016 10:00 AM
				SW_7.3.3.2-Reactivity, Cyanide		9/19/2016 10:15 AM	9/20/2016 5:13 PM
				SW_7.3.4.2-Reactivity, Sulfide		9/19/2016 10:15 AM	9/19/2016 9:02 AM
				SW_9045-Solid pH Measured in Water at Reported Temperature		8/25/2016 11:40 AM	8/25/2016 11:40 AM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40889**

Sample ID:	VOA11B LCS 40889	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	8/30/2016	RunNo:	88509
Client ID:	LCSW	Batch ID:	40889	TestNo:	SW8260B	SW1311B		Analysis Date:	8/30/2016	SeqNo:	1721665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	2,100	200	2,000	0	104	71	131				
1,2-Dichloroethane	2,100	200	2,000	0	106	73	128				
1,4-Dichlorobenzene	2,000	200	2,000	0	99.5	79	118				
Benzene	2,100	200	2,000	0	105	79	120				
Carbon tetrachloride	2,100	200	2,000	0	107	72	136				
Chlorobenzene	2,000	200	2,000	0	99.1	82	118				
Chloroform	2,100	200	2,000	0	103	79	124				
Methyl ethyl ketone	2,000	2,000	2,000	0	99.4	56	143				J
Tetrachloroethene	2,100	200	2,000	0	103	74	129				
Trichloroethene	2,100	200	2,000	0	104	79	123				
Vinyl chloride	2,400	200	2,000	0	122	58	137				
Surr: 4-Bromofluorobenzene	12,000		12,000		102	85	114				
Surr: Dibromofluoromethane	12,000		12,000		102	80	119				
Surr: Toluene-d8	12,000		12,000		101	89	112				

Sample ID:	1608800-001AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	8/30/2016	RunNo:	88509
Client ID:	CH-ST-082016MS1	Batch ID:	40889	TestNo:	SW8260B	SW1311B		Analysis Date:	8/30/2016	SeqNo:	1721676

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	2,300	200	2,000	0	114	71	131				
1,2-Dichloroethane	2,300	200	2,000	0	114	73	128				
1,4-Dichlorobenzene	2,000	200	2,000	0	100	79	118				
Benzene	2,200	200	2,000	0	112	79	120				
Carbon tetrachloride	2,200	200	2,000	0	111	72	136				
Chlorobenzene	2,000	200	2,000	0	102	82	118				
Chloroform	2,200	200	2,000	0	108	79	124				
Methyl ethyl ketone	2,100	2,000	2,000	0	105	56	143				
Tetrachloroethene	2,200	200	2,000	0	110	74	129				
Trichloroethene	2,200	200	2,000	0	109	79	123				
Vinyl chloride	2,700	200	2,000	0	134	58	137				
Surr: 4-Bromofluorobenzene	12,000		12,000		100	85	114				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40889**

Sample ID:	1608800-001AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	8/30/2016	RunNo:	88509
Client ID:	CH-ST-082016MS1	Batch ID:	40889	TestNo:	SW8260B	SW1311B		Analysis Date:	8/30/2016	SeqNo:	1721676

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	13,000		12,000		106	80	119				
Surr: Toluene-d8	12,000		12,000		103	89	112				

Sample ID:	1608800-001AMSD	Samp Type:	MSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	8/30/2016	RunNo:	88509
Client ID:	CH-ST-082016SD1	Batch ID:	40889	TestNo:	SW8260B	SW1311B		Analysis Date:	8/30/2016	SeqNo:	1721677

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	2,200	200	2,000	0	108	71	131	2,286	5.39	25	
1,2-Dichloroethane	2,300	200	2,000	0	113	73	128	2,276	0.971	25	
1,4-Dichlorobenzene	2,000	200	2,000	0	102	79	118	2,006	1.88	25	
Benzene	2,200	200	2,000	0	110	79	120	2,248	1.89	25	
Carbon tetrachloride	2,100	200	2,000	0	106	72	136	2,222	4.89	25	
Chlorobenzene	2,000	200	2,000	0	101	82	118	2,040	1.28	25	
Chloroform	2,200	200	2,000	0	111	79	124	2,162	2.56	25	
Methyl ethyl ketone	2,000	2,000	2,000	0	101	56	143	2,104	4.57	25	
Tetrachloroethene	2,200	200	2,000	0	109	74	129	2,206	1.55	25	
Trichloroethene	2,100	200	2,000	0	106	79	123	2,180	2.70	25	
Vinyl chloride	2,600	200	2,000	0	128	58	137	2,688	4.57	25	
Surr: 4-Bromofluorobenzene	12,000		12,000		99.9	85	114		0	25	
Surr: Dibromofluoromethane	13,000		12,000		107	80	119		0	25	
Surr: Toluene-d8	12,000		12,000		103	89	112		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40892**

Sample ID:	MB-40892	Samp Type:	MBLK	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	8/30/2016	RunNo:	88514
Client ID:	PBW	Batch ID:	40892	TestNo:	SW6010B	SW3020A		Analysis Date:	8/30/2016	SeqNo:	1721752

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	10	40									JG
Barium	200	200									U
Cadmium	5.0	5.0									U
Chromium	10	10									U
Lead	100	100									U
Selenium	40	40									U
Silver	20	20									U

Sample ID:	LCS-40892	Samp Type:	LCS	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	8/30/2016	RunNo:	88514
Client ID:	LCSW	Batch ID:	40892	TestNo:	SW6010B	SW3020A		Analysis Date:	8/30/2016	SeqNo:	1721753

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	520	40	500.0	0	103	87	113				G
Barium	500	200	500.0	0	99.8	88	113				
Cadmium	520	5.0	500.0	0	104	88	113				
Chromium	520	10	500.0	0	105	90	113				
Lead	530	100	500.0	0	105	86	113				
Selenium	530	40	500.0	0	106	83	114				
Silver	520	20	500.0	0	104	84	115				

Sample ID:	1608902-001AMS	Samp Type:	MS	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	8/30/2016	RunNo:	88514
Client ID:	ZZZZZZ	Batch ID:	40892	TestNo:	SW6010B	SW3020A		Analysis Date:	8/30/2016	SeqNo:	1721755

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	540	40	500.0	22.86	103	87	113				G
Barium	620	200	500.0	72.62	109	88	113				
Cadmium	540	5.0	500.0	2.090	107	88	113				
Chromium	540	10	500.0	19.43	105	90	113				
Lead	770	100	500.0	265.9	101	86	113				
Selenium	530	40	500.0	0	106	83	114				
Silver	520	20	500.0	0	104	84	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40892**

Sample ID:	**1608902-001AMSD**	Samp Type:	**MSD**	Test Code:	**SW_6010A**	Units:	**µg/L**	Prep Date:	**8/30/2016**	RunNo:	**88514**
Client ID:	**ZZZZZZ**	Batch ID:	**40892**	TestNo:	**SW6010B**	**SW3020A**		Analysis Date:	**8/30/2016**	SeqNo:	**1721756**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	540	40	500.0	22.86	103	87	113	537.8	0.255	20	G
Barium	620	200	500.0	72.62	109	88	113	615.8	0.571	20	
Cadmium	550	5.0	500.0	2.090	109	88	113	537.3	1.94	20	
Chromium	540	10	500.0	19.43	105	90	113	542.8	0.162	20	
Lead	780	100	500.0	265.9	103	86	113	772.0	0.905	20	
Selenium	570	40	500.0	0	114	83	114	528.5	7.66	20	Q
Silver	520	20	500.0	0	103	84	115	517.7	0.124	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40893**

Sample ID:	MB-40893	Samp Type:	MBLK	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	8/30/2016	RunNo:	88519
Client ID:	PBW	Batch ID:	40893	TestNo:	SW6010B	SW3020A		Analysis Date:	8/30/2016	SeqNo:	1721786

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	9.8	40									J
Barium	200	200									U
Cadmium	0.91	5.0									J
Chromium	10	10									U
Lead	100	100									U
Selenium	40	40									U
Silver	20	20									U

Sample ID:	LCS-40893	Samp Type:	LCS	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	8/30/2016	RunNo:	88519
Client ID:	LCSW	Batch ID:	40893	TestNo:	SW6010B	SW3020A		Analysis Date:	8/30/2016	SeqNo:	1721787

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	540	40	500.0	0	108	87	113				
Barium	480	200	500.0	0	96.3	88	113				
Cadmium	530	5.0	500.0	0	107	88	113				
Chromium	490	10	500.0	0	98.6	90	113				
Lead	520	100	500.0	0	103	86	113				
Selenium	550	40	500.0	0	110	83	114				
Silver	540	20	500.0	0	108	84	115				

Sample ID:	1608800-001AMS	Samp Type:	MS	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	8/30/2016	RunNo:	88519
Client ID:	CH-ST-082016MS1	Batch ID:	40893	TestNo:	SW6010B	SW3020A		Analysis Date:	8/30/2016	SeqNo:	1721789

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	610	40	500.0	37.47	115	87	113				Q
Barium	1,000	200	500.0	548.8	97.3	88	113				
Cadmium	580	5.0	500.0	92.68	96.8	88	113				
Chromium	580	10	500.0	138.8	88.1	90	113				Q
Lead	500	100	500.0	92.97	82.1	86	113				Q
Selenium	640	40	500.0	0	127	83	114				Q
Silver	560	20	500.0	116.6	88.5	84	115				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40893**

Sample ID:	**1608800-001AMSD**	Samp Type:	**MSD**	Test Code:	**SW_6010A**	Units:	**µg/L**	Prep Date:	**8/30/2016**	RunNo:	**88519**
Client ID:	**CH-ST-082016SD1**	Batch ID:	**40893**	TestNo:	**SW6010B**	**SW3020A**		Analysis Date:	**8/30/2016**	SeqNo:	**1721790**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	590	40	500.0	37.47	111	87	113	610.5	3.29	20	
Barium	1,000	200	500.0	548.8	98.9	88	113	1,035	0.762	20	
Cadmium	590	5.0	500.0	92.68	99.7	88	113	576.5	2.50	20	
Chromium	580	10	500.0	138.8	88.8	90	113	579.1	0.644	20	Q
Lead	510	100	500.0	92.97	82.5	86	113	503.4	0.400	20	Q
Selenium	610	40	500.0	0	122	83	114	637.3	3.97	20	Q
Silver	580	20	500.0	116.6	93.6	84	115	559.2	4.46	20	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40898**

Sample ID:	MB-40898	Samp Type:	MBLK	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	8/31/2016	RunNo:	88587	
Client ID:	PBW	Batch ID:	40898	TestNo:	SW7470A	SW7470		Analysis Date:	8/31/2016	SeqNo:	1722824	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	0.20	0.20									U	

Sample ID:	LCS-40898	Samp Type:	LCS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	8/31/2016	RunNo:	88587	
Client ID:	LCSW	Batch ID:	40898	TestNo:	SW7470A	SW7470		Analysis Date:	8/31/2016	SeqNo:	1722825	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	1.0	0.20	1.000	0	103	82	119					

Sample ID:	1608800-001AMS	Samp Type:	MS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	8/31/2016	RunNo:	88587	
Client ID:	CH-ST-082016MS1	Batch ID:	40898	TestNo:	SW7470A	SW7470		Analysis Date:	8/31/2016	SeqNo:	1722827	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	1.1	0.20	1.000	0	106	82	119					

Sample ID:	1608800-001AMSD	Samp Type:	MSD	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	8/31/2016	RunNo:	88587	
Client ID:	CH-ST-082016SD1	Batch ID:	40898	TestNo:	SW7470A	SW7470		Analysis Date:	8/31/2016	SeqNo:	1722828	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	1.0	0.20	1.000	0	101	82	119	1.063	5.31	20		

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40899**

Sample ID:	MB-40899	Samp Type:	MBLK	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	8/31/2016	RunNo:	88587	
Client ID:	PBW	Batch ID:	40899	TestNo:	SW7470A	SW7470		Analysis Date:	8/31/2016	SeqNo:	1722830	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	0.20	0.20									U	

Sample ID:	LCS-40899	Samp Type:	LCS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	8/31/2016	RunNo:	88587	
Client ID:	LCSW	Batch ID:	40899	TestNo:	SW7470A	SW7470		Analysis Date:	8/31/2016	SeqNo:	1722831	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	0.98	0.20	1.000	0	97.7	82	119					

Sample ID:	1608A52-001FMS	Samp Type:	MS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	8/31/2016	RunNo:	88587	
Client ID:	ZZZZZZ	Batch ID:	40899	TestNo:	SW7470A	SW7470		Analysis Date:	8/31/2016	SeqNo:	1722833	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	0.70	0.20	1.000	0.1630	53.8	82	119				Q	

Sample ID:	1608A52-001FMSD	Samp Type:	MSD	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	8/31/2016	RunNo:	88587	
Client ID:	ZZZZZZ	Batch ID:	40899	TestNo:	SW7470A	SW7470		Analysis Date:	8/31/2016	SeqNo:	1722834	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Mercury	0.70	0.20	1.000	0.1630	53.4	82	119	0.7010	0.572	20	Q	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40932**

Sample ID:	MB-40932	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/5/2016	RunNo:	88679
Client ID:	PBW	Batch ID:	40932	TestNo:	SW8270C	SW3510C		Analysis Date:	9/8/2016	SeqNo:	1724952

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	25	25									U
2,4,6-Trichlorophenol	20	20									U
2,4-Dinitrotoluene	25	25									U
2-Methylphenol	25	25									U
3/4 Methylphenol	50	50									U
Hexachlorobenzene	25	25									U
Hexachlorobutadiene	25	25									U
Hexachloroethane	25	25									U
Nitrobenzene	25	25									U
Pentachlorophenol	25	25									UY
Pyridine	50	50									UY
Surr: 2,4,6-Tribromophenol	92		125.0		73.4	43	140				
Surr: 2-Fluorobiphenyl	79		125.0		63.2	44	119				
Surr: 2-Fluorophenol	68		125.0		54.1	19	119				
Surr: Nitrobenzene-d5	82		125.0		65.6	44	120				
Surr: Phenol-d5	80		125.0		64.4	30	130				
Surr: Terphenyl-d14	110		125.0		87.0	50	134				

Sample ID:	1608800-001AMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/5/2016	RunNo:	88679
Client ID:	CH-ST-082016MS1	Batch ID:	40932	TestNo:	SW8270C	SW3510C		Analysis Date:	9/8/2016	SeqNo:	1724954

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	79	25	100.0	0	79.0	53	123				
2,4,6-Trichlorophenol	78	20	100.0	0	78.1	50	125				
2,4-Dinitrotoluene	85	25	100.0	0	84.6	57	128				
2-Methylphenol	84	25	100.0	0	83.7	30	117				
3/4 Methylphenol	170	50	200.0	0	86.7	25	120				
Hexachlorobenzene	81	25	100.0	0	81.5	53	125				
Hexachlorobutadiene	51	25	100.0	0	50.7	22	124				
Hexachloroethane	55	25	100.0	0	55.0	21	115				
Nitrobenzene	79	25	100.0	0	78.8	45	121				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 40932**

Sample ID:	1608800-001AMS	Samp Type:	MS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/5/2016	RunNo:	88679
Client ID:	CH-ST-082016MS1	Batch ID:	40932	TestNo:	SW8270C	SW3510C		Analysis Date:	9/8/2016	SeqNo:	1724954

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	86	25	100.0	0	86.4	35	138				Y
Pyridine	52	50	100.0	0	52.4	50	130				Y
Surr: 2,4,6-Tribromophenol	110		125.0		90.6	43	140				
Surr: 2-Fluorobiphenyl	91		125.0		72.5	44	119				
Surr: 2-Fluorophenol	83		125.0		66.7	19	119				
Surr: Nitrobenzene-d5	100		125.0		81.3	44	120				
Surr: Phenol-d5	100		125.0		82.6	30	130				
Surr: Terphenyl-d14	120		125.0		94.7	50	134				

Sample ID:	1608800-001AMSD	Samp Type:	MSD	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/5/2016	RunNo:	88679
Client ID:	CH-ST-082016SD1	Batch ID:	40932	TestNo:	SW8270C	SW3510C		Analysis Date:	9/8/2016	SeqNo:	1724955

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	69	25	100.0	0	68.8	53	123	78.95	13.7	25	
2,4,6-Trichlorophenol	66	20	100.0	0	66.2	50	125	78.10	16.6	25	
2,4-Dinitrotoluene	74	25	100.0	0	74.5	57	128	84.65	12.8	25	
2-Methylphenol	67	25	100.0	0	66.9	30	117	83.70	22.3	25	
3/4 Methylphenol	150	50	200.0	0	72.8	25	120	173.4	17.5	25	
Hexachlorobenzene	71	25	100.0	0	70.8	53	125	81.45	14.1	25	
Hexachlorobutadiene	38	25	100.0	0	38.0	22	124	50.70	28.6	25	R
Hexachloroethane	36	25	100.0	0	36.4	21	115	55.05	40.8	25	R
Nitrobenzene	60	25	100.0	0	60.2	45	121	78.80	26.7	25	R
Pentachlorophenol	74	25	100.0	0	74.3	35	138	86.40	15.1	25	Y
Pyridine	48	50	100.0	0	47.8	50	130	52.40	9.29	25	JQY
Surr: 2,4,6-Tribromophenol	95		125.0		76.4	43	140		0	25	
Surr: 2-Fluorobiphenyl	76		125.0		61.2	44	119		0	25	
Surr: 2-Fluorophenol	65		125.0		52.0	19	119		0	25	
Surr: Nitrobenzene-d5	76		125.0		61.1	44	120		0	25	
Surr: Phenol-d5	87		125.0		69.3	30	130		0	25	
Surr: Terphenyl-d14	110		125.0		86.9	50	134		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** 40932

Sample ID:	LCS-40932	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/5/2016	RunNo:	88679
Client ID:	LCSW	Batch ID:	40932	TestNo:	SW8270C	SW3510C		Analysis Date:	9/8/2016	SeqNo:	1724960

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	71	25	100.0	0	70.6	53	123				
2,4,6-Trichlorophenol	75	20	100.0	0	74.6	50	125				
2,4-Dinitrotoluene	84	25	100.0	0	84.4	57	128				
2-Methylphenol	77	25	100.0	0	77.4	30	117				
3/4 Methylphenol	160	50	200.0	0	81.9	25	120				
Hexachlorobenzene	78	25	100.0	0	78.2	53	125				
Hexachlorobutadiene	49	25	100.0	0	48.9	22	124				
Hexachloroethane	50	25	100.0	0	49.9	21	115				
Nitrobenzene	76	25	100.0	0	76.0	45	121				
Pentachlorophenol	63	25	100.0	0	62.6	35	138				Y
Pyridine	50	50	100.0	0	50.1	50	130				Y
Surr: 2,4,6-Tribromophenol	110		125.0		85.3	43	140				
Surr: 2-Fluorobiphenyl	90		125.0		72.3	44	119				
Surr: 2-Fluorophenol	81		125.0		64.6	19	119				
Surr: Nitrobenzene-d5	99		125.0		79.0	44	120				
Surr: Phenol-d5	99		125.0		79.0	30	130				
Surr: Terphenyl-d14	110		125.0		90.8	50	134				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 41082**

Sample ID:	MB-41082	Samp Type:	MBLK	Test Code:	SW_7.3.3.2	Units:	mg/Kg	Prep Date:	9/19/2016	RunNo:	88952	
Client ID:	PBS	Batch ID:	41082	TestNo:	SW7.3.3.2			Analysis Date:	9/20/2016	SeqNo:	1731055	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Reactive	1.0	1.0									U	

Sample ID:	LCS-41082	Samp Type:	LCS	Test Code:	SW_7.3.3.2	Units:	mg/Kg	Prep Date:	9/19/2016	RunNo:	88952	
Client ID:	LCSS	Batch ID:	41082	TestNo:	SW7.3.3.2			Analysis Date:	9/20/2016	SeqNo:	1731056	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Reactive	1.0	1.0	0.1000	0	0	80	120				QU	

Sample ID:	1608800-001BDUP	Samp Type:	DUP	Test Code:	SW_7.3.3.2	Units:	mg/Kg	Prep Date:	9/19/2016	RunNo:	88952	
Client ID:	CH-ST-082016LR1	Batch ID:	41082	TestNo:	SW7.3.3.2			Analysis Date:	9/20/2016	SeqNo:	1731058	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Reactive	0.97	0.97						0	0	25	U	

Sample ID:	LCSD-41082	Samp Type:	LCSD	Test Code:	SW_7.3.3.2	Units:	mg/Kg	Prep Date:	9/19/2016	RunNo:	88952	
Client ID:	LCSS02	Batch ID:	41082	TestNo:	SW7.3.3.2			Analysis Date:	9/20/2016	SeqNo:	1731061	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Cyanide, Reactive	1.0	1.0	0.1000	0	0	80	120	0	0	25	QU	

Sample ID:	MB-41082	Samp Type:	MBLK	Test Code:	SW_7.3.4.2	Units:	mg/Kg	Prep Date:	9/19/2016	RunNo:	88946	
Client ID:	PBS	Batch ID:	41082	TestNo:	SW7.3.4.2			Analysis Date:	9/19/2016	SeqNo:	1731015	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Sulfide, Reactive	2.0	2.0									U	

Sample ID:	LCS-41082	Samp Type:	LCS	Test Code:	SW_7.3.4.2	Units:	mg/Kg	Prep Date:	9/19/2016	RunNo:	88946	
Client ID:	LCSS	Batch ID:	41082	TestNo:	SW7.3.4.2			Analysis Date:	9/19/2016	SeqNo:	1731016	
Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual	
Sulfide, Reactive	2.0	2.0	0.4000	0	0	80	120				QU	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID: 41082**

Sample ID:	**LCSD-41082**	Samp Type:	**LCSD**	Test Code:	**SW_7.3.4.2**	Units:	**mg/Kg**	Prep Date:	**9/19/2016**	RunNo:	**88946**
Client ID:	**LCSS02**	Batch ID:	**41082**	TestNo:	**SW7.3.4.2**			Analysis Date:	**9/19/2016**	SeqNo:	**1731017**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Sulfide, Reactive	2.0	2.0	0.4000	0	0	80	120	0	0	25	QU

Sample ID:	**1608800-001BDUP**	Samp Type:	**DUP**	Test Code:	**SW_7.3.4.2**	Units:	**mg/Kg**	Prep Date:	**9/19/2016**	RunNo:	**88946**
Client ID:	**CH-ST-082016LR1**	Batch ID:	**41082**	TestNo:	**SW7.3.4.2**			Analysis Date:	**9/19/2016**	SeqNo:	**1731019**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Sulfide, Reactive	1.9	1.9						0	0	25	U

RTI Laboratories - QC SUMMARY REPORT

WO#: 1608800

Date Reported: 9/21/2016
Original

Client: AECOM Design and Consulting Services (DCS)

Project: Camp Hero **Batch ID:** **R88731**

Sample ID:	**LCS-R88731**	Samp Type:	**LCS**	Test Code:	**SW_1010**	Units:	**°F**	Prep Date:	**9/9/2016**	RunNo:	**88731**
Client ID:	**LCSS**	Batch ID:	**R88731**	TestNo:	**SW1010**			Analysis Date:	**9/9/2016**	SeqNo:	**1726005**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Ignitability	81	70	81.00	0	100	90	110				

RTI Laboratories - Definitions and Acronyms

WO#: 1608800

Date Reported: 9/21/2016
Original

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: ICB/CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q: % REC exceeded control limits. When applied to sample analytes - denotes an associated LCS recovery that exceeded control limits.

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

X: Matrix spike recovery for the noted analyte exceeded control limits. Applied to the MS/MSD parent sample.

Y: Percent Difference/Drift in the associated CCV exceeded acceptance criteria.

Z: Percent Difference/Drift in the associated ICV exceeded acceptance criteria.

1608800

Chain of Custody

AECOM
3101 Wilson Blvd Suite 900
Arlington, Virginia 22201
Phone No. (703) 682-4900; Fax No. (703) 682-4901

AECOM

Laboratory	Project Name
RTI Laboratories	Camp Hero
Address	**Point of Contact / Phone No.**
31628 Glendale Street	Devon Chicoine (703) 682-9069
City / **State** / **Zip Code**	**Site Contact / Phone No.**
Livonia / MI / 48150	Amanda Martin (434) 664-8047

Database Information					Other Sample Information					
LOCID	SBD	SED	SA Code	Samp No	Sample I.D.	Date	Time	Matrix	No. of Con.	Cooler No.
					CH-ST-082016	8/20/16	1230	ST	6	1
					CH-WW-082016	8/20/16	1300	WW	5	1

Analysis: TCLP-1311-8260-RS.1; Tentatively-10 RA_08182_23; Corrosivity-all-4500-HB_08182_23; Reactivity; TCLP-1311-7470E-030STM23.1

Chain of Custody: Batch May16

Comment

1. Relinquished By / Company	Date	Time	1. Received By / Company	Date	Time
Nicole Shulman / AECOM	8/22/16	1400	Fedex		
2. Relinquished By / Company	Date	Time	2. Received By / Company	Date	Time
			Kathryn Schuyler	8/23/16	1046
3. Relinquished By / Company	Date	Time	3. Received By / Company	Date	Time

Comments

Shipment Method/Airbill No.

DISTRIBUTION: WHITE - Stays with sample; CANARY - Returned to Client with Report; PINK - Field Copy

Cooler Temp Blank 3.0
SHAFT-01

TRK# 0201 7838 8630 6580

TUE – 23 AUG 3:00P
STANDARD OVERNIGHT

ET CFAA

48150
MI – US DTW

CUSTODY SEALS

Date 8/22/11

Signature

Subject: Fwd: RE: Camp Hero - IDW
From: Kathy Griffin <kgriffin@rtilab.com>
Date: 8/15/2016 3:28 PM
To: Rachael Miksys <rmiksys@rtilab.com>, Chino Ortiz <cortiz@rtilab.com>

Good afternoon,
May I have a hand getting this cooler out. One set of bottles for each below.
Thanks!
Kathy

-------- Forwarded Message --------
Subject:RE: Camp Hero - IDW
Date: Mon, 15 Aug 2016 18:48:42 +0000
From: Martin, Amanda (Arlington) <Amanda.Martin@aecom.com>
To: Kathy Griffin (kgriffin@rtilab.com) <kgriffin@rtilab.com>
CC: Schulman, Nicole <nicole.schulman@aecom.com>, Masonheimer, Debbie <Debbie.Masonheimer@aecom.com>, Chicoine, Devon <Devon.Chicoine@aecom.com>

Hi Kathy,

Can you provide a set of soil and liquid IDW sampling bottleware to Nicole Schulman (address below) as soon as possible? We originally were not going to sample IDW during this phase, but the client has changed their mind and wants it done ASAP. We have some bottleware but not a complete set.

Shipping Address:
Nicole Schulman
17 Aspen Rd.
Rocky Point, NY 11778
Phone – (518) 764-3792

Matrix	Analytical Group	Analytical and Preparation Method/SOP Reference	Containers (Number, Size, and Type)	Sample Volume (Units)	Preservation Requirements (Chemical, Temperature, Light Protected)	Maximum Holding Time (Preparation/ Analysis)
IDW Soil	TCLP	1311_030514_R5.1 1311ZHE_030514_R3.1	2- 8 oz. (250 ml) Glass	200 g	<6° C, light protected	14 days to TCLP preparation – analysis holding times according to analytical group for waters above.
	Ignitability	1010A_051812_R3	1-125 ml Glass	100 g	<6° C, light protected	Not established
	Corrosivity - pH	4500 H-B_050912_R3	1-125 ml Glass	50 g	<6° C	Not established
	Reactivity	No method available	1-125 ml Glass	100 g	<6° C	Not established
IDW Water	TCLP	1311_030514_R5.1 1311ZHE_030514_R3.1	2 L Amber glass	2000ml	<6° C, light protected	14 days to TCLP preparation – analysis holding times according to analytical group for waters above.
	Ignitability	1010A_051812_R3	1-125 ml Glass	100 ml	<6° C, light protected	Not established
	Corrosivity - pH	4500 H-B_050912_R3	1-125 ml Plastic	50 ml	<6° C	Not established
	Reactivity	No method available	1-125 ml Glass	100 ml	<6° C	Not established

Thank you.
Amanda

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From: Schulman, Nicole
Sent: Monday, August 08, 2016 10:15 PM
To: Martin, Amanda (Arlington)
Subject: RE: Camp Hero - IDW

Hi Amanda,

I've been put on a long term project but I can probably make it there. There's a chance I might do it during a weekend if I sample it on a Saturday or sunday do you know the hold time? could I keep it cold until I ship on Monday? Do I have all the bottleware that I will need for this? If so do you think that the bottleware is still good or do you think maybe I should get new bottles? Also do you happen to remember the gate code so that I don't have to try and explain to the guard what I'm up too lol

Thanks,
Nicole

From: Martin, Amanda (Arlington)
Sent: Monday, August 08, 2016 10:03 AM
To: Schulman, Nicole
Cc: McGuinness, Brendan; MacEwan, Mark; Donahue, Megan; Chicoine, Devon
Subject: Camp Hero - IDW

Hi Nicole,

Hope you are doing well!

The USACE has decided that we need to sample the liquid and solid IDW at Camp Hero. Are you available to conduct the sampling sometime in the near future?

Thanks,
Amanda

Amanda Martin
Environmental Engineer II
Design and Consulting Services (DCS)
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Appendix G3

Data Validation Reports

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Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606306		
Date(s) of Collection:	June 7th, 2016		
Number/Type Samples & Analyses:	1 Groundwater sample for PAH, PCB, and Metals		
Senior Data Reviewer:	Naoum Tavantzis AECOM/Baltimore, MD		
Completed:	August 29th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for the groundwater data included in Sample Delivery Group (SDG) 1606306. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✓ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

NA Laboratory duplicate results

NA Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR. ADR Discrepancy reports are included in Attachment B.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606306 **Laboratory: RTILABS**

EDD Filename: EDD_1606306_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A **Matrix: Water**

Sample ID: H11-SB02-GW **Collected:** 6/7/2016 6:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	22	J	2.5	LOD	50	LOQ	ug/L	J	RI
NICKEL	7.5	J	0.50	LOD	10	LOQ	ug/L	J	RI

Sample ID: H11-SB02-GW **Collected:** 6/7/2016 6:00:00 PM **Analysis Type:** Reanalysis-1/TOT **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	9600	J	2500	LOD	10000	LOQ	ug/L	J	RI

Method Category: SVOA

Method: 8270D SIM **Matrix: Water**

Sample ID: H11-SB02-GW **Collected:** 6/7/2016 6:00:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	8.0		0.39	LOD	0.39	LOQ	ug/L	J	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606306 **Laboratory: RTILABS**

EDD Filename: EDD_1606306_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Mb	Method Blank Contamination
RI	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606306 **Laboratory: RTILABS**

EDD Filename: EDD_1606306_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606306 **Laboratory: RTILABS**

EDD Filename: EDD_1606306_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: **6020A**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40174	7/25/2016 11:49:09 AM	ALUMINUM NICKEL	9.8 ug/L 0.23 ug/L	H11-SB02-GW

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606306 **Laboratory: RTILABS**

EDD Filename: EDD_1606306_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D SIM**
Matrix: **Water**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSD-40121 (H11-SB02-GW)	BENZO(K)FLUORANTHENE	-	-	54.00-125.00	21.79 (20.00)	BENZO(K)FLUORANTHENE	J (all detects) UJ (all non-detects)

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606306 **Laboratory: RTILABS**

EDD Filename: EDD_1606306_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: **6020A**

Matrix: **Water**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
H11-SB02-GW	NICKEL	J	7.5	10	LOQ	ug/L	
	SODIUM	J	9600	10000	LOQ	ug/L	J (all detects)
	ZINC	J	22	50	LOQ	ug/L	

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606337		
Date(s) of Collection:	June 8th, 2016		
Number/Type Samples & Analyses:	26 groundwater samples and 1 trip blank for a project-specific list of VOCs, PAHs, Lead, PCBs		
Data Reviewer:	Zachary Neigh AECOM/Baltimore MD		
Completed:	August 29th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606337. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

NA Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

Sample ID: **H11-SB01-GW** ***Collected:*** **6/8/2016 2:00:00 PM** ***Analysis Type:*** **Dilution-1/TOT** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	13000	J	2500	LOD	20000	LOQ	ug/L	J	RI
COBALT	20	J	10	LOD	100	LOQ	ug/L	J	RI
MAGNESIUM	9800	J	2500	LOD	10000	LOQ	ug/L	J	RI
NICKEL	56	J	10	LOD	200	LOQ	ug/L	J	RI
POTASSIUM	7400	J	2500	LOD	10000	LOQ	ug/L	J	RI
CHROMIUM	180	JG	10	LOD	200	LOQ	ug/L	J	RI

Sample ID: **H11-SB01-GW** ***Collected:*** **6/8/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.45	J	0.50	LOD	1.0	LOQ	ug/L	J	RI
SELENIUM	1.9	J	2.5	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.91	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: **WDS-SB22-GW** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Dilution-1/TOT** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	52000		2500	LOD	20000	LOQ	ug/L	J	Fd
CHROMIUM	340	G	10	LOD	200	LOQ	ug/L	J	Fd
COBALT	140		10	LOD	100	LOQ	ug/L	J	Fd
COPPER	220		10	LOD	100	LOQ	ug/L	J	Fd
IRON	92000		2500	LOD	4000	LOQ	ug/L	J	Fd
MAGNESIUM	15000		2500	LOD	10000	LOQ	ug/L	J	Fd
MANGANESE	6800		10	LOD	100	LOQ	ug/L	J	Fd
NICKEL	100	J	10	LOD	200	LOQ	ug/L	J	RI, Fd
POTASSIUM	13000		2500	LOD	10000	LOQ	ug/L	J	Fd
VANADIUM	280		10	LOD	80	LOQ	ug/L	J	Fd

Sample ID: **WDS-SB22-GW** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Dilution-2/TOT** ***Dilution:*** **2000**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	280000		1000	LOD	20000	LOQ	ug/L	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

Sample ID: **WDS-SB22-GW** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	16	G	1.0	LOD	1.5	LOQ	ug/L	J	Fd
BARIUM	1600		0.50	LOD	25	LOQ	ug/L	J	Fd
CADMIUM	4.8		0.50	LOD	1.0	LOQ	ug/L	J	Fd
LEAD	120		0.50	LOD	1.0	LOQ	ug/L	J	Fd
SELENIUM	7.0		2.5	LOD	5.0	LOQ	ug/L	J	Fd
THALLIUM	0.90	J	0.50	LOD	2.0	LOQ	ug/L	J	Rl, Fd
ZINC	270		2.5	LOD	50	LOQ	ug/L	J	Fd

Sample ID: **WDS-SB22-GW** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Reanalysis-1/TOT** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	16	J	10	LOD	20	LOQ	ug/L	J	Rl, Fd

Sample ID: **WDS-SB22-GW DUP** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.76	JG	1.0	LOD	1.5	LOQ	ug/L	J	Rl, Fd
BARIUM	49		0.50	LOD	25	LOQ	ug/L	J	Fd
CADMIUM	0.50	U	0.50	LOD	1.0	LOQ	ug/L	UJ	Fd
CALCIUM	12000		120	LOD	1000	LOQ	ug/L	J	Fd
CHROMIUM	11	G	0.50	LOD	10	LOQ	ug/L	J	Fd
COBALT	3.6	J	0.50	LOD	5.0	LOQ	ug/L	J	Rl, Fd
COPPER	4.8	J	0.50	LOD	5.0	LOQ	ug/L	J	Rl, Fd
IRON	4600		120	LOD	200	LOQ	ug/L	J	Fd
LEAD	4.4		0.50	LOD	1.0	LOQ	ug/L	J	Fd
MAGNESIUM	4400		120	LOD	500	LOQ	ug/L	J	Fd
MANGANESE	180		0.50	LOD	5.0	LOQ	ug/L	J	Fd
NICKEL	5.0	J	0.50	LOD	10	LOQ	ug/L	J	Rl, Fd
POTASSIUM	2500		120	LOD	500	LOQ	ug/L	J	Fd
SELENIUM	2.5	U	2.5	LOD	5.0	LOQ	ug/L	UJ	Fd
THALLIUM	0.50	U	0.50	LOD	2.0	LOQ	ug/L	UJ	Fd
VANADIUM	11		0.50	LOD	4.0	LOQ	ug/L	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

Sample ID: **WDS-SB22-GW DUP** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	11	J	2.5	LOD	50	LOQ	ug/L	J	Rl, Fd

Sample ID: **WDS-SB22-GW DUP** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Reanalysis-1/TOT** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15000		50	LOD	1000	LOQ	ug/L	J	Fd
BERYLLIUM	10	U	10	LOD	20	LOQ	ug/L	UJ	Fd

Sample ID: **WDS-SB25-GW** ***Collected:*** **6/8/2016 11:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.46	J	0.50	LOD	1.0	LOQ	ug/L	J	Rl
THALLIUM	0.20	J	0.50	LOD	2.0	LOQ	ug/L	J	Rl

Sample ID: **WDS-SB26-GW** ***Collected:*** **6/8/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.7		1.0	LOD	1.5	LOQ	ug/L	J	Fd
NICKEL	7.4	J	0.50	LOD	10	LOQ	ug/L	J	Rl
ZINC	22	J	2.5	LOD	50	LOQ	ug/L	J	Rl

Sample ID: **WDS-SB26-GW DUP** ***Collected:*** **6/8/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.5		1.0	LOD	1.5	LOQ	ug/L	J	Fd
NICKEL	8.3	J	0.50	LOD	10	LOQ	ug/L	J	Rl
ZINC	23	J	2.5	LOD	50	LOQ	ug/L	J	Rl

Sample ID: **WDS-SB27-GW** ***Collected:*** **6/8/2016 10:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.43	J	0.50	LOD	1.0	LOQ	ug/L	J	Rl
THALLIUM	0.86	J	0.50	LOD	2.0	LOQ	ug/L	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**
Method: **6020A** ***Matrix:*** **Water**

Method Category: **METALS**
Method: **6020A-SA** ***Matrix:*** **Water**

Sample ID: **H11-SB01-GW** ***Collected:*** **6/8/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.58	JG	0.75	LOD	2.5	LOQ	ug/L	U	Mb
SILVER	0.57	J	0.50	LOD	1.5	LOQ	ug/L	J	Rl

Sample ID: **WDS-SB22-GW** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.3	JG	0.75	LOD	2.5	LOQ	ug/L	UJ	Mb, Fd
SILVER	0.62	J	0.50	LOD	1.5	LOQ	ug/L	J	Rl, Fd

Sample ID: **WDS-SB22-GW DUP** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.64	JG	0.75	LOD	2.5	LOQ	ug/L	UJ	Mb, Fd
SILVER	0.50	U	0.50	LOD	1.5	LOQ	ug/L	UJ	Fd

Sample ID: **WDS-SB25-GW** ***Collected:*** **6/8/2016 11:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.1	JG	0.75	LOD	2.5	LOQ	ug/L	U	Mb
SILVER	0.28	J	0.50	LOD	1.5	LOQ	ug/L	J	Rl

Sample ID: **WDS-SB26-GW** ***Collected:*** **6/8/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.44	JG	0.75	LOD	2.5	LOQ	ug/L	U	Mb

Sample ID: **WDS-SB26-GW DUP** ***Collected:*** **6/8/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.34	JG	0.75	LOD	2.5	LOQ	ug/L	U	Mb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-SA **Matrix: Water**

Sample ID: WDS-SB27-GW **Collected:** 6/8/2016 10:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.84	JG	0.75	LOD	2.5	LOQ	ug/L	U	Mb
SILVER	0.24	J	0.50	LOD	1.5	LOQ	ug/L	J	Rl

Method Category: SVOA

Method: 8270D SIM **Matrix: Water**

Sample ID: WDS-SB22-GW **Collected:** 6/8/2016 3:00:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
2-METHYLNAPHTHALENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
ACENAPHTHENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
ACENAPHTHYLENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
ANTHRACENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
BENZ(A)ANTHRACENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
BENZO(A)PYRENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
BENZO(B)FLUORANTHENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
BENZO(G,H,I)PERYLENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
BENZO(K)FLUORANTHENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
CHRYSENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
DIBENZO(A,H)ANTHRACENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
FLUORANTHENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
FLUORENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
NAPHTHALENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
PHENANTHRENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
PYRENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr

Sample ID: WDS-SB22-GW DUP **Collected:** 6/8/2016 3:00:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **Water**

Sample ID: **WDS-SB22-GW DUP** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2-METHYLNAPHTHALENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
ACENAPHTHENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
ACENAPHTHYLENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
ANTHRACENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
BENZ(A)ANTHRACENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
BENZO(A)PYRENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
BENZO(B)FLUORANTHENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
BENZO(G,H,I)PERYLENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
BENZO(K)FLUORANTHENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
CHRYSENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
DIBENZO(A,H)ANTHRACENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
FLUORANTHENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
FLUORENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
NAPHTHALENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
PHENANTHRENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr
PYRENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Surr

Sample ID: **WDS-SB26-GW** ***Collected:*** **6/8/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1-METHYLNAPHTHALENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
2-METHYLNAPHTHALENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
ACENAPHTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
ACENAPHTHYLENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZ(A)ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZO(A)PYRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZO(B)FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr, Fd
BENZO(G,H,I)PERYLENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZO(K)FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
CHRYSENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr, Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **Water**

Sample ID: **WDS-SB26-GW** ***Collected:*** **6/8/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
DIBENZO(A,H)ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr, Fd
FLUORENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
NAPHTHALENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr, Fd
PHENANTHRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr, Fd
PYRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr, Fd

Sample ID: **WDS-SB26-GW DUP** ***Collected:*** **6/8/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1-METHYLNAPHTHALENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
2-METHYLNAPHTHALENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
ACENAPHTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
ACENAPHTHYLENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZ(A)ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZO(A)PYRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZO(B)FLUORANTHENE	0.025		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
BENZO(G,H,I)PERYLENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZO(K)FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
CHRYSENE	0.020		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
DIBENZO(A,H)ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
FLUORANTHENE	0.043		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
FLUORENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
NAPHTHALENE	0.021		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
PHENANTHRENE	0.021		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
PYRENE	0.032		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **WDS-SB22-GW** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.3	UQ	2.3	LOD	23	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB22-GW** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.93	UQ	0.93	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB22-GW DUP** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.5	UQ	2.5	LOD	25	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB22-GW DUP** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.0	UQ	1.0	LOD	5.0	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB25-GW** ***Collected:*** **6/8/2016 11:00:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.5	UQ	2.5	LOD	25	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB25-GW** ***Collected:*** **6/8/2016 11:00:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.0	UQ	1.0	LOD	5.0	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB26-GW** ***Collected:*** **6/8/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.3	UQ	2.3	LOD	23	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: WDS-SB26-GW **Collected:** 6/8/2016 10:05:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.93	UQ	0.93	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB26-GW DUP **Collected:** 6/8/2016 10:05:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB26-GW DUP **Collected:** 6/8/2016 10:05:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB27-GW **Collected:** 6/8/2016 10:00:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.5	UQ	2.5	LOD	12	LOQ	ug/L	UJ	Lcs

Method Category: VOA

Method: 8260C **Matrix: Water**

Sample ID: TB-GW-060816-01 **Collected:** 6/8/2016 9:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	2.5	J	0.60	LOD	10	LOQ	ug/L	J	RI

Sample ID: WDS-SB22-GW **Collected:** 6/8/2016 3:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	3.3	J	0.60	LOD	10	LOQ	ug/L	UJ	Fd, Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **WDS-SB22-GW DUP** ***Collected:*** **6/8/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.60	U	0.60	LOD	10	LOQ	ug/L	UJ	Fd

Sample ID: **WDS-SB25-GW** ***Collected:*** **6/8/2016 11:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	3.4	J	0.60	LOD	10	LOQ	ug/L	U	Tb

Sample ID: **WDS-SB26-GW** ***Collected:*** **6/8/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	3.0	J	0.60	LOD	10	LOQ	ug/L	UJ	Fd, Tb

Sample ID: **WDS-SB26-GW DUP** ***Collected:*** **6/8/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	4.3	J	0.60	LOD	10	LOQ	ug/L	UJ	Fd, Tb

Sample ID: **WDS-SB27-GW** ***Collected:*** **6/8/2016 10:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	5.6	J	5.0	LOD	10	LOQ	ug/L	J	Rl
ACETONE	4.6	J	0.60	LOD	10	LOQ	ug/L	U	Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Mb	Method Blank Contamination
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: **6020A**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40174	7/25/2016 11:49:09 AM	ALUMINUM NICKEL	9.8 ug/L 0.23 ug/L	H11-SB01-GW WDS-SB22-GW WDS-SB22-GW DUP WDS-SB25-GW WDS-SB26-GW WDS-SB26-GW DUP WDS-SB27-GW

Method: **6020A-SA**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40163	6/16/2016 11:05:33 AM	ANTIMONY	0.87 ug/L	H11-SB01-GW WDS-SB22-GW WDS-SB22-GW DUP WDS-SB25-GW WDS-SB26-GW WDS-SB26-GW DUP WDS-SB27-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H11-SB01-GW(Initial/TOT)	ANTIMONY	0.58 ug/L	2.5U ug/L
WDS-SB22-GW DUP(Initial/TOT)	ANTIMONY	0.64 ug/L	2.5U ug/L
WDS-SB22-GW(Initial/TOT)	ANTIMONY	1.3 ug/L	2.5U ug/L
WDS-SB25-GW(Initial/TOT)	ANTIMONY	1.1 ug/L	2.5U ug/L
WDS-SB26-GW DUP(Initial/TOT)	ANTIMONY	0.34 ug/L	2.5U ug/L
WDS-SB26-GW(Initial/TOT)	ANTIMONY	0.44 ug/L	2.5U ug/L
WDS-SB27-GW(Initial/TOT)	ANTIMONY	0.84 ug/L	2.5U ug/L

Surrogate Outlier Report

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
WDS-SB22-GW DUP (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5	43.7 40.7	44.00-119.00 44.00-120.00	All Base/Neutral Target Analytes	J- (all detects) UJ (all non-detects)
WDS-SB22-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5	27.8 24.8	44.00-119.00 44.00-120.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB26-GW DUP (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5	37.5 37.3	44.00-119.00 44.00-120.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB26-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5	22.3 21.2	44.00-119.00 44.00-120.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D-MOD
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
WDS-SB22-GW DUP (Initial/TOT)	PHENOL-D5	24.5	30.00-130.00	No Affected Compounds	
WDS-SB22-GW (Initial/TOT)	PHENOL-D5	25.2	30.00-130.00	No Affected Compounds	
WDS-SB26-GW DUP (Initial/TOT)	PHENOL-D5	26.7	30.00-130.00	No Affected Compounds	
WDS-SB26-GW (Initial/TOT)	PHENOL-D5	26.8	30.00-130.00	No Affected Compounds	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Water**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCS-40156 (WDS-SB22-GW WDS-SB22-GW DUP WDS-SB25-GW WDS-SB26-GW WDS-SB26-GW DUP)	4-NITROPHENOL N-NITROSODIMETHYLAMINE	47.8 39.9	- -	50.00-130.00 50.00-130.00	- -	4-NITROPHENOL N-NITROSODIMETHYLAMINE	J- (all detects) UJ (all non-detects)
LCS-40170 (WDS-SB27-GW)	N-NITROSODIMETHYLAMINE	39.6	-	50.00-130.00	-	N-NITROSODIMETHYLAMINE	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	WDS-SB26-GW (Total)	WDS-SB26-GW DUP (Total)			
ARSENIC	1.7	2.5	38	30.00	J (all detects) UJ (all non-detects)

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	WDS-SB22-GW (Total)	WDS-SB22-GW DUP (Total)			
ALUMINUM	280000	15000	180	30.00	J(all detects) UJ(all non-detects)
ARSENIC	16	0.76	182	30.00	
BARIUM	1600	49	188	30.00	
BERYLLIUM	16	20 U	200	30.00	
CADMIUM	4.8	1.0 U	200	30.00	
CALCIUM	52000	12000	125	30.00	
CHROMIUM	340	11	187	30.00	
COBALT	140	3.6	190	30.00	
COPPER	220	4.8	191	30.00	
IRON	92000	4600	181	30.00	
LEAD	120	4.4	186	30.00	
MAGNESIUM	15000	4400	109	30.00	
MANGANESE	6800	180	190	30.00	
NICKEL	100	5.0	181	30.00	
POTASSIUM	13000	2500	135	30.00	
SELENIUM	7.0	5.0 U	200	30.00	
THALLIUM	0.90	2.0 U	200	30.00	
VANADIUM	280	11	185	30.00	
ZINC	270	11	184	30.00	

Method: 6020A-SA
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	WDS-SB22-GW (Total)	WDS-SB22-GW DUP (Total)			
ANTIMONY	1.3	0.64	68	30.00	J(all detects)
SILVER	0.62	1.5 U	200	30.00	UJ(all non-detects)

Method: 8260C
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	WDS-SB26-GW	WDS-SB26-GW DUP			
ACETONE	3.0	4.3	36	30.00	J(all detects) UJ(all non-detects)

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	WDS-SB22-GW	WDS-SB22-GW DUP			
ACETONE	3.3	10 U	200	30.00	J(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	WDS-SB26-GW	WDS-SB26-GW DUP			
BENZO(B)FLUORANTHENE	0.019 U	0.025	200	30.00	
CHRYSENE	0.019 U	0.020	200	30.00	
FLUORANTHENE	0.019 U	0.043	200	30.00	J(all detects)
NAPHTHALENE	0.019 U	0.021	200	30.00	UJ(all non-detects)
PHENANTHRENE	0.019 U	0.021	200	30.00	
PYRENE	0.019 U	0.032	200	30.00	

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-GW-060816-01(Initial/TOT)	6/8/2016 9:00:00 AM	ACETONE	2.5 ug/L	H11-SB01-GW WDS-SB22-GW WDS-SB22-GW DUP WDS-SB25-GW WDS-SB26-GW WDS-SB26-GW DUP WDS-SB27-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
WDS-SB22-GW(Initial/TOT)	ACETONE	3.3 ug/L	10U ug/L
WDS-SB25-GW(Initial/TOT)	ACETONE	3.4 ug/L	10U ug/L
WDS-SB26-GW DUP(Initial/TOT)	ACETONE	4.3 ug/L	10U ug/L
WDS-SB26-GW(Initial/TOT)	ACETONE	3.0 ug/L	10U ug/L
WDS-SB27-GW(Initial/TOT)	ACETONE	4.6 ug/L	10U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H11-SB01-GW	CADMIUM	J	0.45	1.0	LOQ	ug/L	J (all detects)
	CALCIUM	J	13000	20000	LOQ	ug/L	
	CHROMIUM	JG	180	200	LOQ	ug/L	
	COBALT	J	20	100	LOQ	ug/L	
	MAGNESIUM	J	9800	10000	LOQ	ug/L	
	NICKEL	J	56	200	LOQ	ug/L	
	POTASSIUM	J	7400	10000	LOQ	ug/L	
	SELENIUM	J	1.9	5.0	LOQ	ug/L	
	THALLIUM	J	0.91	2.0	LOQ	ug/L	
WDS-SB22-GW	BERYLLIUM	J	16	20	LOQ	ug/L	J (all detects)
	NICKEL	J	100	200	LOQ	ug/L	
	THALLIUM	J	0.90	2.0	LOQ	ug/L	
WDS-SB22-GW DUP	ARSENIC	JG	0.76	1.5	LOQ	ug/L	J (all detects)
	COBALT	J	3.6	5.0	LOQ	ug/L	
	COPPER	J	4.8	5.0	LOQ	ug/L	
	NICKEL	J	5.0	10	LOQ	ug/L	
	ZINC	J	11	50	LOQ	ug/L	
WDS-SB25-GW	CADMIUM	J	0.46	1.0	LOQ	ug/L	J (all detects)
	THALLIUM	J	0.20	2.0	LOQ	ug/L	
WDS-SB26-GW	NICKEL	J	7.4	10	LOQ	ug/L	J (all detects)
	ZINC	J	22	50	LOQ	ug/L	
WDS-SB26-GW DUP	NICKEL	J	8.3	10	LOQ	ug/L	J (all detects)
	ZINC	J	23	50	LOQ	ug/L	
WDS-SB27-GW	CADMIUM	J	0.43	1.0	LOQ	ug/L	J (all detects)
	THALLIUM	J	0.86	2.0	LOQ	ug/L	

Method: 6020A-SA

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H11-SB01-GW	ANTIMONY	JG	0.58	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	0.57	1.5	LOQ	ug/L	
WDS-SB22-GW	ANTIMONY	JG	1.3	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	0.62	1.5	LOQ	ug/L	
WDS-SB22-GW DUP	ANTIMONY	JG	0.64	2.5	LOQ	ug/L	J (all detects)
WDS-SB25-GW	ANTIMONY	JG	1.1	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	0.28	1.5	LOQ	ug/L	
WDS-SB26-GW	ANTIMONY	JG	0.44	2.5	LOQ	ug/L	J (all detects)
WDS-SB26-GW DUP	ANTIMONY	JG	0.34	2.5	LOQ	ug/L	J (all detects)
WDS-SB27-GW	ANTIMONY	JG	0.84	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	0.24	1.5	LOQ	ug/L	

Reporting Limit Outliers

Lab Reporting Batch ID: 1606337 **Laboratory: RTILABS**

EDD Filename: EDD_1606337_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**

Matrix: **Water**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
TB-GW-060816-01	ACETONE	J	2.5	10	LOQ	ug/L	J (all detects)
WDS-SB22-GW	ACETONE	J	3.3	10	LOQ	ug/L	J (all detects)
WDS-SB25-GW	ACETONE	J	3.4	10	LOQ	ug/L	J (all detects)
WDS-SB26-GW	ACETONE	J	3.0	10	LOQ	ug/L	J (all detects)
WDS-SB26-GW DUP	ACETONE	J	4.3	10	LOQ	ug/L	J (all detects)
WDS-SB27-GW	2-Butanone [MEK] ACETONE	J J	5.6 4.6	10 10	LOQ LOQ	ug/L ug/L	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606387		
Date(s) of Collection:	June 9th, 2016		
Number/Type Samples & Analyses:	7 groundwater samples, 1 water sample, and 1 trip blank for a project-specific list of VOCs, SVOCs, PAHs, PCBs, and metals		
Data Reviewer:	Zach Neigh AECOM/Baltimore, MD		
Completed:	August 31, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606387. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENT

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

NA Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

Sample WDS-SB24-GW was analyzed twice for SVOCs. The initial run had 2 surrogates that didn't meet the control limits. The lab re-ran the sample but it was extracted outside of the recommended hold time. The initial results were used.

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

Sample ID: **H12-SB01-GW** ***Collected:*** **6/9/2016 10:15:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	1100	GX	2.5	LOD	50	LOQ	ug/L	J+	Ms
CALCIUM	48000	X	120	LOD	1000	LOQ	ug/L	J+	Ms
COBALT	1.8	J	0.50	LOD	5.0	LOQ	ug/L	J	Rl
COPPER	1.5	J	0.50	LOD	5.0	LOQ	ug/L	J	Rl
IRON	37000	X	120	LOD	200	LOQ	ug/L	J+	Ms
MANGANESE	1400	X	0.50	LOD	5.0	LOQ	ug/L	J+	Ms
NICKEL	3.0	J	0.50	LOD	10	LOQ	ug/L	J	Rl
POTASSIUM	8200	X	120	LOD	500	LOQ	ug/L	J+	Ms
SODIUM	11000	X	120	LOD	500	LOQ	ug/L	J+	Ms
VANADIUM	3.6	J	0.50	LOD	4.0	LOQ	ug/L	J	Rl
ZINC	8.8	J	2.5	LOD	50	LOQ	ug/L	J	Rl
CHROMIUM	2.0	JG	0.50	LOD	10	LOQ	ug/L	J	Rl

Sample ID: **WDS-SB23-GW** ***Collected:*** **6/9/2016 2:00:00 PM** ***Analysis Type:*** **Dilution-1/TOT** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	51000		2500	LOD	20000	LOQ	ug/L	J	Fd
CHROMIUM	480	G	10	LOD	200	LOQ	ug/L	J	Fd
COBALT	77	J	10	LOD	100	LOQ	ug/L	J	Rl, Fd
COPPER	510		10	LOD	100	LOQ	ug/L	J	Fd
IRON	320000		2500	LOD	4000	LOQ	ug/L	J	Fd
MAGNESIUM	43000		2500	LOD	10000	LOQ	ug/L	J	Fd
MANGANESE	2500		10	LOD	100	LOQ	ug/L	J	Fd
NICKEL	190	J	10	LOD	200	LOQ	ug/L	J	Rl, Fd
POTASSIUM	27000		2500	LOD	10000	LOQ	ug/L	J	Fd
VANADIUM	470		10	LOD	80	LOQ	ug/L	J	Fd

Sample ID: **WDS-SB23-GW** ***Collected:*** **6/9/2016 2:00:00 PM** ***Analysis Type:*** **Dilution-2/TOT** ***Dilution:*** **2000**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	210000		1000	LOD	20000	LOQ	ug/L	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

Sample ID: **WDS-SB23-GW** ***Collected:*** **6/9/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	95	G	1.0	LOD	1.5	LOQ	ug/L	J	Fd
BARIUM	1200		0.50	LOD	25	LOQ	ug/L	J	Fd
CADMIUM	3.5		0.50	LOD	1.0	LOQ	ug/L	J	Fd
LEAD	69		0.50	LOD	1.0	LOQ	ug/L	J	Fd
THALLIUM	1.8	J	0.50	LOD	2.0	LOQ	ug/L	J	Rl, Fd
ZINC	460		2.5	LOD	50	LOQ	ug/L	J	Fd

Sample ID: **WDS-SB23-GW** ***Collected:*** **6/9/2016 2:00:00 PM** ***Analysis Type:*** **Reanalysis-1/TOT** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	8.2	J	10	LOD	20	LOQ	ug/L	J	Rl, Fd

Sample ID: **WDS-SB23-GW DUP** ***Collected:*** **6/9/2016 2:00:00 PM** ***Analysis Type:*** **Dilution-1/TOT** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	27000		2500	LOD	20000	LOQ	ug/L	J	Fd
CHROMIUM	190	JG	10	LOD	200	LOQ	ug/L	J	Rl, Fd
COBALT	40	J	10	LOD	100	LOQ	ug/L	J	Rl, Fd
COPPER	230		10	LOD	100	LOQ	ug/L	J	Fd
IRON	140000		2500	LOD	4000	LOQ	ug/L	J	Fd
MAGNESIUM	25000		2500	LOD	10000	LOQ	ug/L	J	Fd
MANGANESE	1100		10	LOD	100	LOQ	ug/L	J	Fd
NICKEL	100	J	10	LOD	200	LOQ	ug/L	J	Rl, Fd
POTASSIUM	13000		2500	LOD	10000	LOQ	ug/L	J	Fd
VANADIUM	190		10	LOD	80	LOQ	ug/L	J	Fd

Sample ID: **WDS-SB23-GW DUP** ***Collected:*** **6/9/2016 2:00:00 PM** ***Analysis Type:*** **Dilution-2/TOT** ***Dilution:*** **2000**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	100000		1000	LOD	20000	LOQ	ug/L	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A **Matrix: Water**

Sample ID: WDS-SB23-GW DUP **Collected:** 6/9/2016 2:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	140	G	1.0	LOD	1.5	LOQ	ug/L	J	Fd
BARIUM	630		0.50	LOD	25	LOQ	ug/L	J	Fd
CADMIUM	1.6		0.50	LOD	1.0	LOQ	ug/L	J	Fd
LEAD	44		0.50	LOD	1.0	LOQ	ug/L	J	Fd
THALLIUM	1.0	J	0.50	LOD	2.0	LOQ	ug/L	J	Rl, Fd
ZINC	220		2.5	LOD	50	LOQ	ug/L	J	Fd

Sample ID: WDS-SB23-GW DUP **Collected:** 6/9/2016 2:00:00 PM **Analysis Type:** Reanalysis-1/TOT **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	10	U	10	LOD	20	LOQ	ug/L	UJ	Fd

Sample ID: WDS-SB24-GW **Collected:** 6/9/2016 3:15:00 PM **Analysis Type:** Dilution-1/TOT **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	17	J	10	LOD	40	LOQ	ug/L	J	Rl

Method Category: METALS

Method: 6020A-SA **Matrix: Water**

Sample ID: H12-SB01-GW **Collected:** 6/9/2016 10:15:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.0	JG	0.75	LOD	2.5	LOQ	ug/L	U	Mb
SILVER	0.30	J	0.50	LOD	1.5	LOQ	ug/L	J	Rl

Sample ID: WDS-SB23-GW **Collected:** 6/9/2016 2:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.92	JG	0.75	LOD	2.5	LOQ	ug/L	UJ	Mb, Fd
SILVER	1.1	J	0.50	LOD	1.5	LOQ	ug/L	J	Rl, Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-SA **Matrix: Water**

Sample ID: WDS-SB23-GW DUP **Collected:** 6/9/2016 2:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.50	JG	0.75	LOD	2.5	LOQ	ug/L	UJ	Mb, Fd
SILVER	0.76	J	0.50	LOD	1.5	LOQ	ug/L	J	Rl, Fd

Sample ID: WDS-SB24-GW **Collected:** 6/9/2016 3:15:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	4.1	G	0.75	LOD	2.5	LOQ	ug/L	U	Mb

Method Category: SVOA

Method: 8270D SIM **Matrix: Water**

Sample ID: H12-SB01-GW **Collected:** 6/9/2016 10:15:00 AM **Analysis Type:** Dilution-1/TOT-BASE/ NEUTRAL **Dilution:** 40

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	12		0.75	LOD	0.75	LOQ	ug/L	J-	Ms
2-METHYLNAPHTHALENE	12		0.75	LOD	0.75	LOQ	ug/L	J	Ms, Ms
ACENAPHTHENE	11		0.75	LOD	0.75	LOQ	ug/L	J-	Ms
FLUORENE	5.5		0.75	LOD	0.75	LOQ	ug/L	J-	Ms
NAPHTHALENE	97	J	0.75	LOD	0.75	LOQ	ug/L	J-	Ms
PHENANTHRENE	13		0.75	LOD	0.75	LOQ	ug/L	J-	Ms

Sample ID: H12-SB01-GW **Collected:** 6/9/2016 10:15:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.28		0.019	LOD	0.019	LOQ	ug/L	J-	Ms
BENZO(A)PYRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Ms
BENZO(B)FLUORANTHENE	0.027		0.019	LOD	0.019	LOQ	ug/L	J	Ms
BENZO(G,H,I)PERYLENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Ms
BENZO(K)FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Ms
DIBENZO(A,H)ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Ms
FLUORANTHENE	0.73		0.019	LOD	0.019	LOQ	ug/L	J-	Ms
INDENO(1,2,3-CD)PYRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Water

Sample ID: H12-SB01-GW **Collected:** 6/9/2016 10:15:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	0.34		0.019	LOD	0.019	LOQ	ug/L	J	Ms, Ms

Sample ID: WDS-SB23-GW **Collected:** 6/9/2016 2:00:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.041		0.019	LOD	0.019	LOQ	ug/L	J	Fd
NAPHTHALENE	0.11		0.019	LOD	0.019	LOQ	ug/L	J	Fd

Sample ID: WDS-SB23-GW DUP **Collected:** 6/9/2016 2:00:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.030		0.019	LOD	0.019	LOQ	ug/L	J	Fd
NAPHTHALENE	0.078		0.019	LOD	0.019	LOQ	ug/L	J	Fd

Sample ID: WDS-SB24-GW **Collected:** 6/9/2016 3:15:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
2-METHYLNAPHTHALENE	0.026		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
ACENAPHTHENE	0.056		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
ACENAPHTHYLENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZ(A)ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZO(A)PYRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZO(B)FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZO(G,H,I)PERYLENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
BENZO(K)FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
CHRYSENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
DIBENZO(A,H)ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
FLUORENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix: Water**

Sample ID: WDS-SB24-GW **Collected:** 6/9/2016 3:15:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.069		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
PHENANTHRENE	0.025		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
PYRENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: H12-SB01-GW **Collected:** 6/9/2016 10:15:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.3	UQ	2.3	LOD	23	LOQ	ug/L	UJ	Lcs
PHENOL	0.93	UX	0.93	LOD	4.7	LOQ	ug/L	UJ	Ms

Sample ID: H12-SB01-GW **Collected:** 6/9/2016 10:15:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	2.3	UX	2.3	LOD	19	LOQ	ug/L	UJ	Ms
CARBAZOLE	3.3	J	0.93	LOD	4.7	LOQ	ug/L	J	Rl
N-NITROSODIMETHYLAMINE	0.93	UQX	0.93	LOD	4.7	LOQ	ug/L	UJ	Ms, Lcs

Sample ID: WDS-SB23-GW **Collected:** 6/9/2016 2:00:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB23-GW **Collected:** 6/9/2016 2:00:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **WDS-SB23-GW DUP** ***Collected:*** **6/9/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB23-GW DUP** ***Collected:*** **6/9/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB24-GW** ***Collected:*** **6/9/2016 3:15:00 PM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.3	UQ	2.3	LOD	23	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB24-GW** ***Collected:*** **6/9/2016 3:15:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	2.3	U	2.3	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.93	U	0.93	LOD	9.3	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
4-NITROANILINE	2.3	U	2.3	LOD	9.3	LOQ	ug/L	UJ	Surr
BENZYL ALCOHOL	2.3	U	2.3	LOD	23	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	2.3	UZ	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: WDS-SB24-GW **Collected:** 6/9/2016 3:15:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL) PHTHALATE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
CARBAZOLE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
DIBENZOFURAN	0.93	U	0.93	LOD	3.7	LOQ	ug/L	UJ	Surr
DIETHYL PHTHALATE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
HEXACHLOROBENZENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
NITROBENZENE	2.3	U	2.3	LOD	2.8	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.93	UQ	0.93	LOD	4.7	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr

Method Category: VOA

Method: 8260C **Matrix: Water**

Sample ID: H12-SB01-GW **Collected:** 6/9/2016 10:15:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UX	2.0	LOD	5.0	LOQ	ug/L	UJ	Ms
2-Butanone [MEK]	3.1	J	5.0	LOD	10	LOQ	ug/L	J	Rl
ACETONE	15	X	0.60	LOD	10	LOQ	ug/L	UJ	Ms, Mb, Tb

Sample ID: TB-GW-060916-01 **Collected:** 6/9/2016 9:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	4.3	J	0.60	LOD	10	LOQ	ug/L	U	Mb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **WDS-SB23-GW** ***Collected:*** **6/9/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	4.6	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb

Sample ID: **WDS-SB23-GW DUP** ***Collected:*** **6/9/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	4.2	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb

Sample ID: **WDS-SB24-GW** ***Collected:*** **6/9/2016 3:15:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	3.3	J	5.0	LOD	10	LOQ	ug/L	J	RI
ACETONE	7.8	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
METHYLENE CHLORIDE	2.2	J	0.60	LOD	5.0	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value
StoE	Sampling to Extraction Rejection
Surr	Surrogate/Tracer Recovery Lower Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	SR
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD **Preparation Method: 3510C**

Matrix: Water

Sample ID	Type	Actual	Criteria	Units	Flag
WDS-SB24-GW (Reanalysis-1/TOT)	Sampling To Extraction	18.00	7.00	DAYS	J- (all detects) R (all non-detects)

Project Name and Number: - USACE Project:

Method Blank Outlier Report

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A
Matrix: Water

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40174	7/25/2016 11:49:09 AM	ALUMINUM NICKEL	9.8 ug/L 0.23 ug/L	H12-SB01-GW WDS-SB23-GW WDS-SB23-GW DUP WDS-SB24-GW

Method: 6020A-SA
Matrix: Water

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40163	6/16/2016 11:05:33 AM	ANTIMONY	0.87 ug/L	H12-SB01-GW WDS-SB23-GW WDS-SB23-GW DUP WDS-SB24-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H12-SB01-GW(Initial/TOT)	ANTIMONY	1.0 ug/L	2.5U ug/L
WDS-SB23-GW DUP(Initial/TOT)	ANTIMONY	0.50 ug/L	2.5U ug/L
WDS-SB23-GW(Initial/TOT)	ANTIMONY	0.92 ug/L	2.5U ug/L
WDS-SB24-GW(Initial/TOT)	ANTIMONY	4.1 ug/L	4.1U ug/L

Method: 8260C
Matrix: Water

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA10 MBLK 06201	6/20/2016 8:33:00 AM	ACETONE	2.7 ug/L	H12-SB01-GW TB-GW-060916-01 WDS-SB23-GW WDS-SB23-GW DUP WDS-SB24-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H12-SB01-GW(Initial/TOT)	ACETONE	15 ug/L	15U ug/L
TB-GW-060916-01(Initial/TOT)	ACETONE	4.3 ug/L	10U ug/L
WDS-SB23-GW DUP(Initial/TOT)	ACETONE	4.2 ug/L	10U ug/L
WDS-SB23-GW(Initial/TOT)	ACETONE	4.6 ug/L	10U ug/L
WDS-SB24-GW(Initial/TOT)	ACETONE	7.8 ug/L	10U ug/L

Surrogate Outlier Report

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D SIM**
Matrix: **Water**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
WDS-SB24-GW (Initial/TOT)	2-FLUOROBIPHENYL Terphenyl-d14	41.8 35.3	44.00-119.00 50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Method: **8270D-MOD**
Matrix: **Water**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
WDS-SB23-GW DUP (Initial/TOT)	PHENOL-D5	28.7	30.00-130.00	No Affected Compounds	
WDS-SB23-GW (Initial/TOT)	PHENOL-D5	29.4	30.00-130.00	No Affected Compounds	
WDS-SB24-GW (Reanalysis-1/TOT)	PHENOL-D5	24	30.00-130.00	No Affected Compounds	
WDS-SB24-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5 Terphenyl-d14	37.3 37.3 23.7 40.1	44.00-119.00 44.00-120.00 30.00-130.00 50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H12-SB01-GWMS H12-SB01-GWMSD (H12-SB01-GW)	3,3'-DICHLOROBENZIDINE N-NITROSODIMETHYLAMINE PHENOL	8.5 31.5 33.4	10.1 33.2 29.8	27.00-129.00 50.00-130.00 34.00-121.00	- - -	3,3'-DICHLOROBENZIDINE N-NITROSODIMETHYLAMINE PHENOL	J- (all detects) UJ (all non-detects)
H12-SB01-GWMS H12-SB01-GWMSD (H12-SB01-GW)	PENTACHLOROPHENOL	157	140	35.00-138.00	-	PENTACHLOROPHENOL	J+(all detects)

Method: 8270D SIM
Matrix: Water

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H12-SB01-GWMS H12-SB01-GWMSD (H12-SB01-GW)	BENZO(B)FLUORANTHENE PYRENE	- 138	- 184	53.00-126.00 53.00-121.00	43.1 (20.00) 26.81 (20.00)	BENZO(B)FLUORANTHENE PYRENE	J(all detects)
H12-SB01-GWMS H12-SB01-GWMSD (H12-SB01-GW)	2-METHYLNAPHTHALENE BENZO(A)PYRENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	-2070 - 38.7 - - 47.1	-1870 47.2 22.3 52.2 29.7 26.6	39.00-114.00 53.00-120.00 44.00-128.00 54.00-125.00 44.00-131.00 48.00-130.00	23.5 (20.00) 37.92 (20.00) 55.46 (20.00) 21.14 (20.00) 58.5 (20.00) 57.34 (20.00)	2-METHYLNAPHTHALENE BENZO(A)PYRENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE DIBENZO(A,H)ANTHRACENE INDENO(1,2,3-CD)PYRENE	J(all detects) UJ(all non-detects)
H12-SB01-GWMS H12-SB01-GWMSD (H12-SB01-GW)	1-METHYLNAPHTHALENE ACENAPHTHENE ANTHRACENE FLUORANTHENE FLUORENE NAPHTHALENE PHENANTHRENE	-2050 -1850 -2570 -167 -848 -20500 -2150	-1950 -1740 -2630 -133 -775 -20700 -2310	41.00-115.00 48.00-114.00 53.00-119.00 58.00-120.00 50.00-118.00 43.00-114.00 53.00-115.00	- - - - - - -	1-METHYLNAPHTHALENE ACENAPHTHENE ANTHRACENE FLUORANTHENE FLUORENE NAPHTHALENE PHENANTHRENE	J-(all detects) UJ(all non-detects)

Method: 6020A
Matrix: Water

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H12-SB01-GWMS (Total) H12-SB01-GWMSD (Total) (H12-SB01-GW)	ALUMINUM CALCIUM IRON MANGANESE POTASSIUM SODIUM	254 179 174 144 117 129	251 169 150 142 118 122	84.00-117.00 87.00-118.00 87.00-115.00 87.00-115.00 87.00-115.00 85.00-117.00	- - - - - -	ALUMINUM CALCIUM IRON MANGANESE POTASSIUM SODIUM	J+(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
H12-SB01-GWMS H12-SB01-GWMSD (H12-SB01-GW)	1,2-DIBROMO-3-CHLOROPROPAN ACETONE	58.8 -10.6	- -13.9	62.00-128.00 39.00-160.00	- -	1,2-DIBROMO-3-CHLOROPROPA ACETONE	J-(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Water**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCS-40156 (H12-SB01-GW WDS-SB23-GW WDS-SB23-GW DUP WDS-SB24-GW)	4-NITROPHENOL N-NITROSODIMETHYLAMINE	47.8 39.9	- -	50.00-130.00 50.00-130.00	- -	4-NITROPHENOL N-NITROSODIMETHYLAMINE	J- (all detects) UJ (all non-detects)
LCS-40262 (WDS-SB24-GW)	BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	48.8 39.6 31.2	- - -	50.00-130.00 50.00-130.00 34.00-121.00	- - -	BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	WDS-SB23-GW (Total)	WDS-SB23-GW DUP (Total)			
ALUMINUM	210000	100000	71	30.00	
ARSENIC	95	140	38	30.00	
BARIUM	1200	630	62	30.00	
BERYLLIUM	8.2	20 U	200	30.00	
CADMIUM	3.5	1.6	75	30.00	
CALCIUM	51000	27000	62	30.00	
CHROMIUM	480	190	87	30.00	
COBALT	77	40	63	30.00	
COPPER	510	230	76	30.00	J (all detects)
IRON	320000	140000	78	30.00	UJ (all non-detects)
LEAD	69	44	44	30.00	
MAGNESIUM	43000	25000	53	30.00	
MANGANESE	2500	1100	78	30.00	
NICKEL	190	100	62	30.00	
POTASSIUM	27000	13000	70	30.00	
THALLIUM	1.8	1.0	57	30.00	
VANADIUM	470	190	85	30.00	
ZINC	460	220	71	30.00	

Method: 6020A-SA
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	WDS-SB23-GW (Total)	WDS-SB23-GW DUP (Total)			
ANTIMONY	0.92	0.50	59	30.00	J(all detects)
SILVER	1.1	0.76	37	30.00	UJ(all non-detects)

Method: 8270D SIM
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	WDS-SB23-GW	WDS-SB23-GW DUP			
1-METHYLNAPHTHALENE	0.041	0.030	31	30.00	J(all detects)
NAPHTHALENE	0.11	0.078	34	30.00	UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-GW-060916-01(Initial/TOT)	6/9/2016 9:00:00 AM	ACETONE	4.3 ug/L	H12-SB01-GW WDS-SB23-GW WDS-SB23-GW DUP WDS-SB24-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H12-SB01-GW(Initial/TOT)	ACETONE	15 ug/L	15U ug/L
WDS-SB23-GW DUP(Initial/TOT)	ACETONE	4.2 ug/L	10U ug/L
WDS-SB23-GW(Initial/TOT)	ACETONE	4.6 ug/L	10U ug/L
WDS-SB24-GW(Initial/TOT)	ACETONE	7.8 ug/L	10U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H12-SB01-GW	CHROMIUM	JG	2.0	10	LOQ	ug/L	J (all detects)
	COBALT	J	1.8	5.0	LOQ	ug/L	
	COPPER	J	1.5	5.0	LOQ	ug/L	
	NICKEL	J	3.0	10	LOQ	ug/L	
	VANADIUM	J	3.6	4.0	LOQ	ug/L	
	ZINC	J	8.8	50	LOQ	ug/L	
WDS-SB23-GW	BERYLLIUM	J	8.2	20	LOQ	ug/L	J (all detects)
	COBALT	J	77	100	LOQ	ug/L	
	NICKEL	J	190	200	LOQ	ug/L	
	THALLIUM	J	1.8	2.0	LOQ	ug/L	
WDS-SB23-GW DUP	CHROMIUM	JG	190	200	LOQ	ug/L	J (all detects)
	COBALT	J	40	100	LOQ	ug/L	
	NICKEL	J	100	200	LOQ	ug/L	
	THALLIUM	J	1.0	2.0	LOQ	ug/L	
WDS-SB24-GW	THALLIUM	J	17	40	LOQ	ug/L	J (all detects)

Method: 6020A-SA

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H12-SB01-GW	ANTIMONY	JG	1.0	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	0.30	1.5	LOQ	ug/L	
WDS-SB23-GW	ANTIMONY	JG	0.92	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	1.1	1.5	LOQ	ug/L	
WDS-SB23-GW DUP	ANTIMONY	JG	0.50	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	0.76	1.5	LOQ	ug/L	

Method: 8260C

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H12-SB01-GW	2-Butanone [MEK]	J	3.1	10	LOQ	ug/L	J (all detects)
TB-GW-060916-01	ACETONE	J	4.3	10	LOQ	ug/L	J (all detects)
WDS-SB23-GW	ACETONE	J	4.6	10	LOQ	ug/L	J (all detects)
WDS-SB23-GW DUP	ACETONE	J	4.2	10	LOQ	ug/L	J (all detects)
WDS-SB24-GW	2-Butanone [MEK]	J	3.3	10	LOQ	ug/L	J (all detects)
	ACETONE	J	7.8	10	LOQ	ug/L	
	METHYLENE CHLORIDE	J	2.2	5.0	LOQ	ug/L	

Reporting Limit Outliers

Lab Reporting Batch ID: 1606387 **Laboratory: RTILABS**

EDD Filename: EDD_1606387_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**

Matrix: **Water**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
H12-SB01-GW	CARBAZOLE	J	3.3	4.7	LOQ	ug/L	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606422		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	7 ground water and 1 trip blank samples for a project-specific list of VOCs, SVOCs, PCBs, and metals		
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA		
Completed:	August 26, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for ground water data included in Sample Delivery Group (SDG) 1606422. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

NA Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

Sample WDS-SB21-GW was analyzed twice for SVOCs. The initial run had 3 surrogates that didn't meet the control limits. The lab re-ran the sample but it was extracted outside of hold time. The initial results were used.

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS
Method: 6020A **Matrix:** Water

Sample ID: WDS-SB20-GW **Collected:** 6/12/2016 2:50:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.53	J	0.50	LOD	2.0	LOQ	ug/L	J	Rl

Sample ID: WDS-SB21-GW **Collected:** 6/12/2016 11:30:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	1700	GX	2.5	LOD	50	LOQ	ug/L	J-	Ms
BARIUM	19	J	0.50	LOD	25	LOQ	ug/L	J	Rl
CHROMIUM	2.1	J	0.50	LOD	10	LOQ	ug/L	J	Rl
COBALT	1.5	J	0.50	LOD	5.0	LOQ	ug/L	J	Rl
COPPER	0.82	J	0.50	LOD	5.0	LOQ	ug/L	J	Rl
IRON	1900	X	120	LOD	200	LOQ	ug/L	J-	Ms
LEAD	0.97	J	0.50	LOD	1.0	LOQ	ug/L	J	Rl
NICKEL	1.9	J	0.50	LOD	10	LOQ	ug/L	J	Rl
POTASSIUM	2400	X	120	LOD	500	LOQ	ug/L	J-	Ms
SELENIUM	1.5	J	2.5	LOD	5.0	LOQ	ug/L	J	Rl
SODIUM	14000	X	120	LOD	500	LOQ	ug/L	J-	Ms
VANADIUM	2.7	J	0.50	LOD	4.0	LOQ	ug/L	J	Rl

Method Category: METALS
Method: 6020A-SA **Matrix:** Water

Sample ID: WDS-SB20-GW **Collected:** 6/12/2016 2:50:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.65	JG	0.75	LOD	2.5	LOQ	ug/L	U	Mb
SILVER	0.78	J	0.50	LOD	1.5	LOQ	ug/L	J	Rl

Sample ID: WDS-SB21-GW **Collected:** 6/12/2016 11:30:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.3	JG	0.75	LOD	2.5	LOQ	ug/L	J	Rl
SILVER	0.60	JG	0.50	LOD	1.5	LOQ	ug/L	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Water

Sample ID: STB-SB01-GW **Collected:** 6/10/2016 2:50:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.27	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
2-METHYLNAPHTHALENE	0.50	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
FLUORENE	0.020	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
NAPHTHALENE	0.19	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
PHENANTHRENE	0.026	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs

Sample ID: STB-SB03-GW **Collected:** 6/10/2016 4:20:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.14	Q	0.021	LOD	0.021	LOQ	ug/L	J+	Lcs, Surr
2-METHYLNAPHTHALENE	0.23	Q	0.021	LOD	0.021	LOQ	ug/L	J+	Lcs, Surr
ACENAPHTHENE	0.085		0.021	LOD	0.021	LOQ	ug/L	J+	Surr
ACENAPHTHYLENE	0.054		0.021	LOD	0.021	LOQ	ug/L	J+	Surr
ANTHRACENE	0.18	Q	0.021	LOD	0.021	LOQ	ug/L	J+	Lcs, Surr
BENZ(A)ANTHRACENE	0.10	Q	0.021	LOD	0.021	LOQ	ug/L	J+	Lcs, Surr
BENZO(A)PYRENE	0.028		0.021	LOD	0.021	LOQ	ug/L	J+	Surr
BENZO(B)FLUORANTHENE	0.038		0.021	LOD	0.021	LOQ	ug/L	J+	Surr
BENZO(K)FLUORANTHENE	0.024		0.021	LOD	0.021	LOQ	ug/L	J+	Surr
CHRYSENE	0.032		0.021	LOD	0.021	LOQ	ug/L	J+	Surr
FLUORANTHENE	0.13		0.021	LOD	0.021	LOQ	ug/L	J+	Surr
FLUORENE	0.13	Q	0.021	LOD	0.021	LOQ	ug/L	J+	Lcs, Surr
NAPHTHALENE	0.14	Q	0.021	LOD	0.021	LOQ	ug/L	J+	Lcs, Surr
PHENANTHRENE	0.19	Q	0.021	LOD	0.021	LOQ	ug/L	J+	Lcs, Surr
PYRENE	0.13	Q	0.021	LOD	0.021	LOQ	ug/L	J+	Lcs, Surr

Sample ID: WDS-SB20-GW **Collected:** 6/12/2016 2:50:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.036	Q	0.023	LOD	0.023	LOQ	ug/L	J+	Lcs
2-METHYLNAPHTHALENE	0.062	Q	0.023	LOD	0.023	LOQ	ug/L	J+	Lcs
NAPHTHALENE	0.055	Q	0.023	LOD	0.023	LOQ	ug/L	J+	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Water

Sample ID: WDS-SB21-GW **Collected:** 6/12/2016 11:30:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.056	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
2-METHYLNAPHTHALENE	0.087	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
FLUORENE	0.021	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
NAPHTHALENE	0.080	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
PHENANTHRENE	0.036	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: STB-SB01-GW **Collected:** 6/10/2016 2:50:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DICHLOROPHENOL	2.4	UX	2.4	LOD	4.8	LOQ	ug/L	UJ	Ms
2-CHLOROPHENOL	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
2-NITROPHENOL	2.4	UYX	2.4	LOD	4.8	LOQ	ug/L	UJ	Ms
4-NITROPHENOL	2.4	UX	2.4	LOD	24	LOQ	ug/L	UJ	Ms
PHENOL	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms

Sample ID: STB-SB01-GW **Collected:** 6/10/2016 2:50:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
1,2-DICHLOROBENZENE	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
1,3-DICHLOROBENZENE	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
1,4-DICHLOROBENZENE	2.4	UX	2.4	LOD	4.8	LOQ	ug/L	UJ	Ms
2-CHLORONAPHTHALENE	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
4-BROMOPHENYL PHENYL ETHER	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
4-CHLOROPHENYL PHENYL ETHER	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
bis(2-chloroethoxy) methane	2.4	UX	2.4	LOD	4.8	LOQ	ug/L	UJ	Ms
BIS(2-CHLOROETHYL) ETHER	2.4	UX	2.4	LOD	4.8	LOQ	ug/L	UJ	Ms
BIS(2-CHLOROISOPROPYL)ETHER	2.4	UXZ	2.4	LOD	4.8	LOQ	ug/L	UJ	Ms
DIBENZOFURAN	0.95	UX	0.95	LOD	3.8	LOQ	ug/L	UJ	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **STB-SB01-GW** ***Collected:*** **6/10/2016 2:50:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXACHLOROBENZENE	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
HEXACHLOROBUTADIENE	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
HEXACHLOROETHANE	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
ISOPHORONE	0.95	UX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms
NITROBENZENE	2.4	UX	2.4	LOD	2.9	LOQ	ug/L	UJ	Ms
N-NITROSODIMETHYLAMINE	0.95	UQX	0.95	LOD	4.8	LOQ	ug/L	UJ	Ms, Lcs
N-Nitrosodi-n-propylamine	2.4	UX	2.4	LOD	4.8	LOQ	ug/L	UJ	Ms

Sample ID: **STB-SB03-GW** ***Collected:*** **6/10/2016 4:20:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	2.4	U	2.4	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.96	U	0.96	LOD	9.6	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
4-NITROANILINE	2.4	U	2.4	LOD	9.6	LOQ	ug/L	UJ	Surr
BENZYL ALCOHOL	2.4	U	2.4	LOD	24	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	2.4	UZ	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
CARBAZOLE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
DIBENZOFURAN	0.96	U	0.96	LOD	3.8	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: STB-SB03-GW **Collected:** 6/10/2016 4:20:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYL PHTHALATE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
HEXACHLOROBENZENE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
NITROBENZENE	2.4	U	2.4	LOD	2.9	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.96	UQ	0.96	LOD	4.8	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr

Sample ID: WDS-SB20-GW **Collected:** 6/12/2016 2:50:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	3.2	UQ	3.2	LOD	32	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	3.2	UYQZ	3.2	LOD	32	LOQ	ug/L	UJ	Lcs, Lcs
PHENOL	1.3	UQ	1.3	LOD	6.3	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB20-GW **Collected:** 6/12/2016 2:50:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL)ETHER	3.2	UYZ	3.2	LOD	6.3	LOQ	ug/L	UJ	Lcs
N-NITROSODIMETHYLAMINE	1.3	UYQ	1.3	LOD	6.3	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB21-GW **Collected:** 6/12/2016 11:30:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **WDS-SB21-GW** ***Collected:*** **6/12/2016 11:30:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,4-DICHLOROBENZENE	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	2.3	U	2.3	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.93	U	0.93	LOD	9.3	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	0.93	UX	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
4-NITROANILINE	2.3	U	2.3	LOD	9.3	LOQ	ug/L	UJ	Surr
BENZYL ALCOHOL	2.3	U	2.3	LOD	23	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	2.3	UZ	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
CARBAZOLE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
DIBENZOFURAN	0.93	U	0.93	LOD	3.7	LOQ	ug/L	UJ	Surr
DIETHYL PHTHALATE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
HEXACHLOROBENZENE	0.93	UX	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
NITROBENZENE	2.3	U	2.3	LOD	2.8	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.93	UQX	0.93	LOD	4.7	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: WDS-SB21-GW **Collected:** 6/12/2016 11:30:00 AM **Analysis Type:** Reanalysis-1/TOT/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENOL	0.94	UQH	0.94	LOD	4.7	LOQ	ug/L	R	Ms, Lcs, StoE

Method Category: VOA

Method: 8260C **Matrix: Water**

Sample ID: STB-SB01-GW **Collected:** 6/10/2016 2:50:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYX	2.0	LOD	5.0	LOQ	ug/L	UJ	Ms
ACETONE	13		0.60	LOD	10	LOQ	ug/L	U	Tb

Sample ID: STB-SB03-GW **Collected:** 6/10/2016 4:20:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	5.3	J	5.0	LOD	10	LOQ	ug/L	J	RI
ACETONE	8.0	J	0.60	LOD	10	LOQ	ug/L	U	Tb

Sample ID: TB-GW-061016-01 **Collected:** 6/10/2016 10:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	3.1	J	0.60	LOD	10	LOQ	ug/L	J	RI

Sample ID: TB-GW-061216-01 **Collected:** 6/12/2016 8:10:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	2.3	J	0.60	LOD	10	LOQ	ug/L	J	RI

Sample ID: WDS-SB20-GW **Collected:** 6/12/2016 2:50:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	3.3	J	0.60	LOD	10	LOQ	ug/L	U	Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **WDS-SB21-GW** ***Collected:*** **6/12/2016 11:30:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYX	2.0	LOD	5.0	LOQ	ug/L	UJ	Ms
ACETONE	2.5	J	0.60	LOD	10	LOQ	ug/L	UJ	Ms, Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
RI	Reporting Limit Trace Value
StoE	Sampling to Extraction Rejection
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	SR
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD **Preparation Method: 3510C**

Matrix: Water

Sample ID	Type	Actual	Criteria	Units	Flag
WDS-SB21-GW (Reanalysis-1/TOT/	Sampling To Extraction	15.00	7.00	DAYS	J- (all detects)
WDS-SB21-GWMS (Reanalysis-1/T(		15.00	7.00	DAYS	R (all non-detects)
WDS-SB21-GWMSD (Reanalysis-1/		15.00	7.00	DAYS	

Project Name and Number: - USACE Project:

Method Blank Outlier Report

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method: **6020A**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40174	7/25/2016 11:49:09 AM	ALUMINUM NICKEL	9.8 ug/L 0.23 ug/L	WDS-SB20-GW

Method: **6020A-SA**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40163	6/16/2016 11:05:33 AM	ANTIMONY	0.87 ug/L	WDS-SB20-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
WDS-SB20-GW(Initial/TOT)	ANTIMONY	0.65 ug/L	2.5U ug/L

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Surrogate Outlier Report

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
STB-SB03-GW (Initial/TOT)	2-FLUOROBIPHENYL	143	44.00-119.00	All Base/Neutral Target Analytes	J+(all detects)

Method: 8270D-MOD
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
STB-SB01-GW (Initial/TOT)	PHENOL-D5	25	30.00-130.00	No Affected Compounds	
STB-SB03-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5	38.2 32.9 14.4	44.00-119.00 44.00-120.00 30.00-130.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB21-GW (Reanalysis-1/TOT/TOT)	PHENOL-D5	27.1	30.00-130.00	No Affected Compounds	
WDS-SB21-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5	39.8 36 14.8	44.00-119.00 44.00-120.00 30.00-130.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Water**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
STB-SB01-GWMSD (STB-SB01-GW)	2,4,6-TRICHLOROPHENOL 2,4-Dimethyl phenol 2-Methylphenol (o-Cresol) 3/4-Methylphenol [m/p-Cresol] 4-CHLORO-3-METHYLPHENOL 4-Chloroaniline [p-Chloroaniline] BENZYL ALCOHOL	- - - - - - -	- - - - - - -	50.00-125.00 31.00-124.00 30.00-117.00 29.00-110.00 52.00-119.00 33.00-117.00 31.00-112.00	42.18 (25.00) 45.76 (25.00) 42.49 (25.00) 42.19 (25.00) 32.45 (25.00) 27.61 (25.00) 33.58 (25.00)	2,4,6-TRICHLOROPHENOL 2,4-Dimethyl phenol 2-Methylphenol (o-Cresol) 3/4-Methylphenol [m/p-Cresol] 4-CHLORO-3-METHYLPHENOL 4-Chloroaniline [p-Chloroaniline] BENZYL ALCOHOL	J (all detects)
STB-SB01-GWMS STB-SB01-GWMSD (STB-SB01-GW)	1,2,4-TRICHLOROBENZENE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 2,4-DICHLOROPHENOL 2-CHLORONAPHTHALENE 2-CHLOROPHENOL 2-NITROPHENOL 4-CHLOROPHENYL PHENYL ETHE bis(2-chloroethoxy) methane BIS(2-CHLOROETHYL) ETHER BIS(2-CHLOROISOPROPYL)ETHE DIBENZOFURAN HEXACHLOROBUTADIENE HEXACHLOROETHANE ISOPHORONE NITROBENZENE N-NITROSODIMETHYLAMINE N-Nitrosodi-n-propylamine PHENOL	23.2 22.5 20.6 20.9 45.6 30.8 34 45.3 48.2 37 31 30.2 42.3 19.1 16.7 37.5 35 20.8 37.2 12.5	- 31.2 - 28.4 - - - - - - - 43.2 - - - - - 27.7 - 24	29.00-116.00 32.00-111.00 28.00-110.00 29.00-112.00 47.00-121.00 40.00-116.00 38.00-117.00 47.00-123.00 53.00-121.00 48.00-120.00 43.00-118.00 50.00-130.00 53.00-118.00 22.00-124.00 21.00-115.00 42.00-124.00 45.00-121.00 50.00-130.00 49.00-119.00 34.00-121.00	35.38 (25.00) 32.25 (25.00) 30.97 (25.00) 30.49 (25.00) 44.79 (25.00) 40.47 (25.00) 37.71 (25.00) 37.08 (25.00) 31.2 (25.00) 39.78 (25.00) 33.94 (25.00) 35.53 (25.00) 32.67 (25.00) 33.01 (25.00) 31.1 (25.00) 46.15 (25.00) 34.81 (25.00) 28.45 (25.00) 39.09 (25.00) 62.83 (25.00)	1,2,4-TRICHLOROBENZENE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 2,4-DICHLOROPHENOL 2-CHLORONAPHTHALENE 2-CHLOROPHENOL 2-NITROPHENOL 4-CHLOROPHENYL PHENYL ETH bis(2-chloroethoxy) methane BIS(2-CHLOROETHYL) ETHER BIS(2-CHLOROISOPROPYL)ETH DIBENZOFURAN HEXACHLOROBUTADIENE HEXACHLOROETHANE ISOPHORONE NITROBENZENE N-NITROSODIMETHYLAMINE N-Nitrosodi-n-propylamine PHENOL	J(all detects) UJ(all non-detects)
STB-SB01-GWMS STB-SB01-GWMSD (STB-SB01-GW)	4-BROMOPHENYL PHENYL ETHEI 4-NITROPHENOL HEXACHLOROBENZENE	51.2 45 52.2	- 45.8 -	55.00-124.00 50.00-130.00 53.00-125.00	- - -	4-BROMOPHENYL PHENYL ETH 4-NITROPHENOL HEXACHLOROBENZENE	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Water

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
WDS-SB21-GWMSD (WDS-SB21-GW)	BENZO(K)FLUORANTHENE	-	-	54.00-125.00	33.33 (20.00)	BENZO(K)FLUORANTHENE	J(all detects)
WDS-SB21-GWMS (WDS-SB21-GW)	BENZ(A)ANTHRACENE	123	-	59.00-120.00	-	BENZ(A)ANTHRACENE	J+(all detects)

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
WDS-SB21-GWMSD (WDS-SB21-GW)	Butyl benzyl phthalate PENTACHLOROPHENOL	- -	- -	53.00-134.00 35.00-138.00	25.31 (25.00) 26.68 (25.00)	Butyl benzyl phthalate PENTACHLOROPHENOL	J(all detects)
WDS-SB21-GWMSD (WDS-SB21-GW)	BENZOIC ACID	-	41.1	50.00-130.00	59.08 (25.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)
WDS-SB21-GWMS WDS-SB21-GWMSD (WDS-SB21-GW)	4-BROMOPHENYL PHENYL ETHEI 4-NITROPHENOL BIS(2-CHLOROISOPROPYL)ETHE HEXACHLOROBENZENE N-NITROSODIMETHYLAMINE PHENOL	49.8 42.7 40.6 45.8 25.4 23	54.2 46.1 48.7 45.7 34.2 25.1	55.00-124.00 50.00-130.00 50.00-130.00 53.00-125.00 50.00-130.00 34.00-121.00	- - - - - -	4-BROMOPHENYL PHENYL ETH 4-NITROPHENOL BIS(2-CHLOROISOPROPYL)ETH HEXACHLOROBENZENE N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)

Method: 6020A
Matrix: Water

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
WDS-SB21-GWMS (Total) WDS-SB21-GWMSD (Total) (WDS-SB21-GW)	ALUMINUM IRON POTASSIUM SODIUM	1.75 72.2 82.6 57.2	6.01 73.6 84 79.9	84.00-117.00 87.00-115.00 87.00-115.00 85.00-117.00	- - - -	ALUMINUM IRON POTASSIUM SODIUM	J-(all detects) UJ(all non-detects)

Method: 8260C
Matrix: Water

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
WDS-SB21-GWMSD (WDS-SB21-GW)	ACETONE	-	-	39.00-160.00	26.67 (25.00)	ACETONE	J(all detects)
WDS-SB21-GWMSD (WDS-SB21-GW)	1,2-DIBROMO-3-CHLOROPROPAN	-	57.3	62.00-128.00	-	1,2-DIBROMO-3-CHLOROPROP/	J-(all detects) UJ(all non-detects)
STB-SB01-GWMS STB-SB01-GWMSD (STB-SB01-GW)	1,2-DIBROMO-3-CHLOROPROPAN	47.8	59.5	62.00-128.00	-	1,2-DIBROMO-3-CHLOROPROP/	J-(all detects) UJ(all non-detects)
STB-SB01-GWMS (STB-SB01-GW)	METHYLENE CHLORIDE TOLUENE	125 126	- -	74.00-124.00 80.00-121.00	- -	METHYLENE CHLORIDE TOLUENE	J+(all detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40170 (STB-SB01-GW STB-SB03-GW WDS-SB21-GW)	N-NITROSODIMETHYLAMINE	39.6	-	50.00-130.00	-	N-NITROSODIMETHYLAMINE	J- (all detects) UJ (all non-detects)

Method: 8270D SIM
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40179 (STB-SB01-GW STB-SB03-GW WDS-SB20-GW WDS-SB21-GW)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ANTHRACENE BENZ(A)ANTHRACENE FLUORENE NAPHTHALENE PHENANTHRENE PYRENE	117 150 122 128 122 116 143 125	- - - - - - - -	41.00-115.00 39.00-114.00 53.00-119.00 59.00-120.00 50.00-118.00 43.00-114.00 53.00-115.00 53.00-121.00	- - - - - - - -	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ANTHRACENE BENZ(A)ANTHRACENE FLUORENE NAPHTHALENE PHENANTHRENE PYRENE	J+(all detects)

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40190 LCSD-40190 (WDS-SB20-GW)	BENZOIC ACID	42.6	-	50.00-130.00	61.18 (25.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)
LCS-40190 LCSD-40190 (WDS-SB20-GW)	4-NITROPHENOL BIS(2-CHLOROISOPROPYL)ETHE N-NITROSODIMETHYLAMINE PHENOL	46.9 49.5 30.1 31.8	46.6 - 35.3 -	50.00-130.00 50.00-130.00 50.00-130.00 34.00-121.00	- - - -	4-NITROPHENOL BIS(2-CHLOROISOPROPYL)ETH N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)
LCS-40262 (WDS-SB21-GW)	BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	48.8 39.6 31.2	- - -	50.00-130.00 50.00-130.00 34.00-121.00	- - -	BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-GW-061016-01(Initial/TOT)	6/10/2016 10:00:00 AM	ACETONE	3.1 ug/L	STB-SB01-GW STB-SB03-GW
TB-GW-061216-01(Initial/TOT)	6/12/2016 8:10:00 AM	ACETONE	2.3 ug/L	2010C-SB02-GW F100C-SB01-GW F100C-SB02-GW WDS-SB20-GW WDS-SB21-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
STB-SB01-GW(Initial/TOT)	ACETONE	13 ug/L	13U ug/L
STB-SB03-GW(Initial/TOT)	ACETONE	8.0 ug/L	10U ug/L
WDS-SB20-GW(Initial/TOT)	ACETONE	3.3 ug/L	10U ug/L
WDS-SB21-GW(Initial/TOT)	ACETONE	2.5 ug/L	10U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 1606422 **Laboratory: RTILABS**

EDD Filename: EDD_1606422_SEDD_2a_v11_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
WDS-SB20-GW	THALLIUM	J	0.53	2.0	LOQ	ug/L	J (all detects)
WDS-SB21-GW	BARIUM	J	19	25	LOQ	ug/L	J (all detects)
	CHROMIUM	J	2.1	10	LOQ	ug/L	
	COBALT	J	1.5	5.0	LOQ	ug/L	
	COPPER	J	0.82	5.0	LOQ	ug/L	
	LEAD	J	0.97	1.0	LOQ	ug/L	
	NICKEL	J	1.9	10	LOQ	ug/L	
	SELENIUM	J	1.5	5.0	LOQ	ug/L	
	VANADIUM	J	2.7	4.0	LOQ	ug/L	

Method: 6020A-SA

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
WDS-SB20-GW	ANTIMONY	JG	0.65	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	0.78	1.5	LOQ	ug/L	
WDS-SB21-GW	ANTIMONY	JG	1.3	2.5	LOQ	ug/L	J (all detects)
	SILVER	JG	0.60	1.5	LOQ	ug/L	

Method: 8260C

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
STB-SB03-GW	2-Butanone [MEK]	J	5.3	10	LOQ	ug/L	J (all detects)
	ACETONE	J	8.0	10	LOQ	ug/L	
TB-GW-061016-01	ACETONE	J	3.1	10	LOQ	ug/L	J (all detects)
TB-GW-061216-01	ACETONE	J	2.3	10	LOQ	ug/L	J (all detects)
WDS-SB20-GW	ACETONE	J	3.3	10	LOQ	ug/L	J (all detects)
WDS-SB21-GW	ACETONE	J	2.5	10	LOQ	ug/L	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606425		
Date(s) of Collection:	June 10th, 2016		
Number/Type Samples & Analyses:	16 soil samples analyzed for a project-specific list of SVOCs, SVOCs by SIM, and Metals		
Data Reviewer:	Tara Bhat AECOM/Germantown, MD		
Completed:	August 29th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for the groundwater data included in Sample Delivery Group (SDG) 1606425. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

NA Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR and/or by manual data review:

Qualifier	Explanation
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J-	The result is an estimated quantity, but the result may be biased low.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The result is not detected. The quantitation limit may be inaccurate or imprecise.

Attachment A presents a summary of qualified data and ADR discrepancy reports. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: BG03-SB01-05 **Collected:** 6/10/2016 12:55:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.096	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	2.7	J	0.72	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: BG03-SB01-10 **Collected:** 6/10/2016 1:00:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.10	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	2.8	J	0.74	LOD	3.7	LOQ	mg/Kg	J	RI

Sample ID: BG03-SB02-05 **Collected:** 6/10/2016 11:50:00 AM **Analysis Type:** Dilution-1 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	17000		36	LOD	110	LOQ	mg/Kg	J+	Ms
MAGNESIUM	3500		36	LOD	360	LOQ	mg/Kg	J+	Ms
MANGANESE	280		1.8	LOD	7.2	LOQ	mg/Kg	J	Ms, Ms, Ms
POTASSIUM	2500		72	LOD	140	LOQ	mg/Kg	J+	Ms

Sample ID: BG03-SB02-05 **Collected:** 6/10/2016 11:50:00 AM **Analysis Type:** Dilution-2 **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	16000		140	LOD	360	LOQ	mg/Kg	J+	Ms

Sample ID: BG03-SB02-05 **Collected:** 6/10/2016 11:50:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.4	X	0.72	LOD	1.4	LOQ	mg/Kg	J-	Ms
BARIUM	52	X	3.6	LOD	7.2	LOQ	mg/Kg	J+	Ms
BERYLLIUM	0.26	X	0.036	LOD	0.18	LOQ	mg/Kg	J-	Ms
CADMIUM	0.036	UX	0.036	LOD	0.18	LOQ	mg/Kg	UJ	Ms
CHROMIUM	20	X	0.29	LOD	0.36	LOQ	mg/Kg	J+	Ms
COBALT	4.8	X	0.18	LOD	0.72	LOQ	mg/Kg	J-	Ms
COPPER	38	X	0.72	LOD	3.6	LOQ	mg/Kg	J+	Ms
LEAD	3.1	J	0.72	LOD	3.6	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **BG03-SB02-05** ***Collected:*** **6/10/2016 11:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	1.1	UX	1.1	LOD	1.4	LOQ	mg/Kg	UJ	Ms
SILVER	0.18	UX	0.18	LOD	0.72	LOQ	mg/Kg	UJ	Ms
VANADIUM	24	X	0.72	LOD	1.8	LOQ	mg/Kg	J+	Ms
ZINC	23	X	0.36	LOD	3.6	LOQ	mg/Kg	J-	Ms

Sample ID: **BG03-SB02-10** ***Collected:*** **6/10/2016 11:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.058	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.051	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	2.8	J	0.72	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: **BG03-SB03-05** ***Collected:*** **6/10/2016 12:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.0	J	0.72	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: **BG03-SB03-10** ***Collected:*** **6/10/2016 12:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.055	J	0.035	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.076	J	0.035	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	2.9	J	0.71	LOD	3.5	LOQ	mg/Kg	J	RI

Sample ID: **BG03-SB04-04** ***Collected:*** **6/10/2016 12:35:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.080	J	0.039	LOD	0.20	LOQ	mg/Kg	J	RI
LEAD	3.5	J	0.78	LOD	3.9	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **BG03-SB04-05** ***Collected:*** **6/10/2016 12:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.3	J	0.73	LOD	1.5	LOQ	mg/Kg	J	Rl, Fd
BERYLLIUM	0.085	J	0.037	LOD	0.18	LOQ	mg/Kg	J	Rl, Fd
CADMIUM	0.067	J	0.037	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	2.1	J	0.73	LOD	3.7	LOQ	mg/Kg	J	Rl

Sample ID: **BG03-SB04-05 DUP** ***Collected:*** **6/10/2016 12:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.3		0.72	LOD	1.4	LOQ	mg/Kg	J	Fd
BERYLLIUM	0.15	J	0.036	LOD	0.18	LOQ	mg/Kg	J	Rl, Fd
CADMIUM	0.065	J	0.036	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	2.6	J	0.72	LOD	3.6	LOQ	mg/Kg	J	Rl

Sample ID: **BG03-SS01-01** ***Collected:*** **6/10/2016 12:50:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.057	J	0.037	LOD	0.18	LOQ	mg/Kg	J	Rl

Sample ID: **BG03-SS02-01** ***Collected:*** **6/10/2016 11:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.034	J	0.039	LOD	0.20	LOQ	mg/Kg	J	Rl

Sample ID: **BG03-SS03-01** ***Collected:*** **6/10/2016 12:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.035	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl
CADMIUM	0.073	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl

Sample ID: **BG03-SS04-01** ***Collected:*** **6/10/2016 12:25:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.10	J	0.040	LOD	0.20	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: BG03-SS04-01 **Collected:** 6/10/2016 12:25:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.16	J	0.040	LOD	0.20	LOQ	mg/Kg	J	RI

Sample ID: BG03-SS05-01 **Collected:** 6/10/2016 11:35:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.10	J	0.044	LOD	0.22	LOQ	mg/Kg	J	RI
CADMIUM	0.081	J	0.044	LOD	0.22	LOQ	mg/Kg	J	RI

Sample ID: BG03-SS06-01 **Collected:** 6/10/2016 12:40:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.036	J	0.043	LOD	0.22	LOQ	mg/Kg	J	RI
CADMIUM	0.067	J	0.043	LOD	0.22	LOQ	mg/Kg	J	RI

Sample ID: BG03-SS07-01 **Collected:** 6/10/2016 1:05:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.033	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: BG03-SB01-10 **Collected:** 6/10/2016 1:00:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.092	J	0.034	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: BG03-SB02-10 **Collected:** 6/10/2016 11:55:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.12	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix:** Soil

Sample ID: BG03-SB04-05 **Collected:** 6/10/2016 12:30:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.088	J	0.037	LOD	0.15	LOQ	mg/Kg	J	Rl, Fd

Sample ID: BG03-SB04-05 DUP **Collected:** 6/10/2016 12:30:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.15		0.035	LOD	0.14	LOQ	mg/Kg	J	Fd

Sample ID: BG03-SS01-01 **Collected:** 6/10/2016 12:50:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.076	J	0.037	LOD	0.15	LOQ	mg/Kg	J	Rl

Sample ID: BG03-SS02-01 **Collected:** 6/10/2016 11:45:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.097	J	0.039	LOD	0.16	LOQ	mg/Kg	J	Rl

Sample ID: BG03-SS03-01 **Collected:** 6/10/2016 12:00:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.10	J	0.039	LOD	0.15	LOQ	mg/Kg	J	Rl

Sample ID: BG03-SS04-01 **Collected:** 6/10/2016 12:25:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.11	J	0.039	LOD	0.16	LOQ	mg/Kg	J	Rl

Sample ID: BG03-SS05-01 **Collected:** 6/10/2016 11:35:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.084	J	0.043	LOD	0.17	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: BG03-SS06-01 **Collected:** 6/10/2016 12:40:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.081	J	0.045	LOD	0.18	LOQ	mg/Kg	J	Rl

Sample ID: BG03-SS07-01 **Collected:** 6/10/2016 1:05:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.068	J	0.039	LOD	0.16	LOQ	mg/Kg	J	Rl

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: BG03-SS01-01 **Collected:** 6/10/2016 12:50:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	0.0015	Q	0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Lcs

Sample ID: BG03-SS03-01 **Collected:** 6/10/2016 12:00:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	0.00096	Q	0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Lcs

Sample ID: BG03-SS04-01 **Collected:** 6/10/2016 12:25:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.022	Q	0.00079	LOD	0.00079	LOQ	mg/Kg	J+	Lcs
FLUORENE	0.0021	Q	0.00079	LOD	0.00079	LOQ	mg/Kg	J+	Lcs
PHENANTHRENE	0.031	Q	0.00079	LOD	0.00079	LOQ	mg/Kg	J+	Lcs

Sample ID: BG03-SS06-01 **Collected:** 6/10/2016 12:40:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	0.0013	Q	0.00088	LOD	0.00088	LOQ	mg/Kg	J+	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: BG03-SS07-01 **Collected:** 6/10/2016 1:05:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.0028	Q	0.00081	LOD	0.00081	LOQ	mg/Kg	J+	Lcs
PHENANTHRENE	0.0037	Q	0.00081	LOD	0.00081	LOQ	mg/Kg	J+	Lcs

Method Category: SVOA

Method: 8270D-MOD **Matrix: Soil**

Sample ID: BG03-SB02-05 **Collected:** 6/10/2016 11:50:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.72	UX	0.72	LOD	1.1	LOQ	mg/Kg	UJ	Ms

Sample ID: BG03-SB04-05 **Collected:** 6/10/2016 12:30:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL) PHTHALATE	0.035	J	0.038	LOD	0.18	LOQ	mg/Kg	J	Rl, Fd

Sample ID: BG03-SB04-05 DUP **Collected:** 6/10/2016 12:30:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL) PHTHALATE	0.036	U	0.036	LOD	0.17	LOQ	mg/Kg	UJ	Fd

Sample ID: BG03-SS01-01 **Collected:** 6/10/2016 12:50:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.27	JYZ	0.38	LOD	1.1	LOQ	mg/Kg	J	Rl

Sample ID: BG03-SS01-01 **Collected:** 6/10/2016 12:50:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DI-N-OCTYL PHTHALATE	0.022	J	0.019	LOD	0.18	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: BG03-SS03-01 **Collected:** 6/10/2016 12:00:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.28	JYZ	0.38	LOD	1.1	LOQ	mg/Kg	J	RI

Sample ID: BG03-SS07-01 **Collected:** 6/10/2016 1:05:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	0.040	U	0.040	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2,4,6-TRICHLOROPHENOL	0.040	U	0.040	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2,4-DICHLOROPHENOL	0.10	U	0.10	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2,4-Dimethyl phenol	0.10	U	0.10	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2,4-DINITROPHENOL	0.20	UY	0.20	LOD	1.0	LOQ	mg/Kg	UJ	Surr
2-CHLOROPHENOL	0.10	U	0.10	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2-NITROPHENOL	0.10	U	0.10	LOD	0.19	LOQ	mg/Kg	UJ	Surr
4,6-DINITRO-2-METHYLPHENOL	0.10	U	0.10	LOD	0.39	LOQ	mg/Kg	UJ	Surr
4-CHLORO-3-METHYLPHENOL	0.040	U	0.040	LOD	0.19	LOQ	mg/Kg	UJ	Surr
4-NITROPHENOL	0.40	U	0.40	LOD	1.0	LOQ	mg/Kg	UJ	Surr
BENZOIC ACID	0.47	JYZ	0.40	LOD	1.2	LOQ	mg/Kg	J	RI, Surr
PENTACHLOROPHENOL	0.10	UY	0.10	LOD	0.19	LOQ	mg/Kg	UJ	Surr
PHENOL	0.10	U	0.10	LOD	0.19	LOQ	mg/Kg	UJ	Surr

Sample ID: BG03-SS07-01 **Collected:** 6/10/2016 1:05:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
1,2-DICHLOROBENZENE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
1,3-DICHLOROBENZENE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
1,4-DICHLOROBENZENE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2,4-DINITROTOLUENE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2,6-DINITROTOLUENE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2-CHLORONAPHTHALENE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2-NITROANILINE	0.020	U	0.020	LOD	0.39	LOQ	mg/Kg	UJ	Surr
3,3'-DICHLOROBENZIDINE	0.80	U	0.80	LOD	1.2	LOQ	mg/Kg	UJ	Surr
3-NITROANILINE	0.020	U	0.020	LOD	0.39	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **BG03-SS07-01** ***Collected:*** **6/10/2016 1:05:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
4-BROMOPHENYL PHENYL ETHER	0.10	U	0.10	LOD	0.24	LOQ	mg/Kg	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
4-NITROANILINE	0.10	U	0.10	LOD	0.39	LOQ	mg/Kg	UJ	Surr
BENZYL ALCOHOL	0.020	U	0.020	LOD	0.80	LOQ	mg/Kg	UJ	Surr
bis(2-chloroethoxy) methane	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.040	U	0.040	LOD	0.19	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.020	UYZ	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.040	U	0.040	LOD	0.19	LOQ	mg/Kg	UJ	Surr
Butyl benzyl phthalate	0.040	U	0.040	LOD	0.19	LOQ	mg/Kg	UJ	Surr
CARBAZOLE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
DIBENZOFURAN	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
DIETHYL PHTHALATE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
DIMETHYL PHTHALATE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
DI-N-BUTYL PHTHALATE	0.040	U	0.040	LOD	0.19	LOQ	mg/Kg	UJ	Surr
DI-N-OCTYL PHTHALATE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBENZENE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBUTADIENE	0.020	U	0.020	LOD	0.060	LOQ	mg/Kg	UJ	Surr
HEXACHLOROETHANE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
ISOPHORONE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
NITROBENZENE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
N-NITROSODIMETHYLAMINE	0.020	UY	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
N-Nitrosodi-n-propylamine	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr
N-NITROSODIPHENYLAMINE	0.020	U	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Upper Estimation
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	A
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Surrogate Outlier Report

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
BG03-SS01-01 (Initial)	Terphenyl-d14	50.6	54.00-127.00	No Affected Compounds	
BG03-SS04-01 (Initial)	Terphenyl-d14	53.5	54.00-127.00	No Affected Compounds	
BG03-SS07-01 (Initial)	2-FLUOROBIPHENYL 2-FLUOROPHENOL Nitrobenzene-d5 PHENOL-D5 Terphenyl-d14	36.8 34.7 34 32.7 40.6	44.00-115.00 35.00-115.00 37.00-122.00 33.00-122.00 54.00-127.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
BG03-SB02-05MS BG03-SB02-05MSD (BG03-SB02-05)	3,3'-DICHLOROBENZIDINE	0	0	22.00-121.00	-	3,3'-DICHLOROBENZIDINE	J- (all detects) UJ (all non-detects)
BG03-SB02-05MS BG03-SB02-05MSD (BG03-SB02-05)	BENZOIC ACID	188	200	40.00-117.00	-	BENZOIC ACID	J+(all detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
BG03-SB02-05MSD (BG03-SB02-05)	PHENANTHRENE	-	116	49.00-113.00	-	PHENANTHRENE	J+(all detects)

Method: 6010C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
BG03-SB02-05MS (Dry) BG03-SB02-05MSD (Dry) (BG03-SB02-05)	MANGANESE	53.1	398	84.00-114.00	22.65 (20.00)	MANGANESE	J(all detects) UJ(all non-detects)
BG03-SB02-05MS (Dry) BG03-SB02-05MSD (Dry) (BG03-SB02-05)	ARSENIC BERYLLIUM CADMIUM COBALT SELENIUM SILVER ZINC	75.8 82.1 80.4 76.4 60.8 81.8 76.3	- - - - 69.7 - -	82.00-111.00 83.00-113.00 82.00-113.00 85.00-112.00 78.00-111.00 82.00-112.00 82.00-113.00	- - - - - - -	ARSENIC BERYLLIUM CADMIUM COBALT SELENIUM SILVER ZINC	J-(all detects) UJ(all non-detects)
BG03-SB02-05MS (Dry) BG03-SB02-05MSD (Dry) (BG03-SB02-05)	ALUMINUM BARIUM CHROMIUM COPPER IRON MAGNESIUM POTASSIUM VANADIUM	12500 125 - - 642 242 176 -	9700 - 119 129 664 180 205 117	74.00-119.00 83.00-113.00 85.00-113.00 81.00-117.00 81.00-118.00 78.00-115.00 81.00-116.00 82.00-114.00	- - - - - - - -	ALUMINUM BARIUM CHROMIUM COPPER IRON MAGNESIUM POTASSIUM VANADIUM	J+(all detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D SIM**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40193 (BG03-SB01-05 BG03-SB01-10 BG03-SB02-05 BG03-SB02-10 BG03-SB03-05 BG03-SB03-10 BG03-SB04-04 BG03-SB04-05 BG03-SB04-05 DUP BG03-SS01-01 BG03-SS02-01 BG03-SS03-01 BG03-SS04-01 BG03-SS05-01 BG03-SS06-01 BG03-SS07-01)	BENZ(A)ANTHRACENE FLUORENE PHENANTHRENE	134 116 129	- - -	54.00-122.00 47.00-114.00 49.00-113.00	- - -	BENZ(A)ANTHRACENE FLUORENE PHENANTHRENE	J+ (all detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	BG03-SB04-05 (Dry)	BG03-SB04-05 DUP (Dry)			
ARSENIC	1.3	2.3	56	50.00	J (all detects)
BERYLLIUM	0.085	0.15	55	50.00	UJ (all non-detects)

Method: 6020A-TL
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	BG03-SB04-05 (Dry)	BG03-SB04-05 DUP (Dry)			
THALLIUM	0.088	0.15	52	50.00	J(all detects) UJ(all non-detects)

Method: 8270D-MOD
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	BG03-SB04-05	BG03-SB04-05 DUP			
BIS(2-ETHYLHEXYL) PHTHALATE	0.035	0.17 U	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BG03-SB01-05	BERYLLIUM LEAD	J J	0.096 2.7	0.18 3.6	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG03-SB01-10	BERYLLIUM LEAD	J J	0.10 2.8	0.18 3.7	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG03-SB02-05	LEAD	J	3.1	3.6	LOQ	mg/Kg	J (all detects)
BG03-SB02-10	BERYLLIUM CADMIUM LEAD	J J J	0.058 0.051 2.8	0.18 0.18 3.6	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
BG03-SB03-05	LEAD	J	3.0	3.6	LOQ	mg/Kg	J (all detects)
BG03-SB03-10	BERYLLIUM CADMIUM LEAD	J J J	0.055 0.076 2.9	0.18 0.18 3.5	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
BG03-SB04-04	CADMIUM LEAD	J J	0.080 3.5	0.20 3.9	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG03-SB04-05	ARSENIC BERYLLIUM CADMIUM LEAD	J J J J	1.3 0.085 0.067 2.1	1.5 0.18 0.18 3.7	LOQ LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg mg/Kg	J (all detects)
BG03-SB04-05 DUP	BERYLLIUM CADMIUM LEAD	J J J	0.15 0.065 2.6	0.18 0.18 3.6	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
BG03-SS01-01	BERYLLIUM	J	0.057	0.18	LOQ	mg/Kg	J (all detects)
BG03-SS02-01	BERYLLIUM	J	0.034	0.20	LOQ	mg/Kg	J (all detects)
BG03-SS03-01	BERYLLIUM CADMIUM	J J	0.035 0.073	0.19 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG03-SS04-01	BERYLLIUM CADMIUM	J J	0.10 0.16	0.20 0.20	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG03-SS05-01	BERYLLIUM CADMIUM	J J	0.10 0.081	0.22 0.22	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG03-SS06-01	BERYLLIUM CADMIUM	J J	0.036 0.067	0.22 0.22	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG03-SS07-01	CADMIUM	J	0.033	0.19	LOQ	mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BG03-SB01-10	THALLIUM	J	0.092	0.14	LOQ	mg/Kg	J (all detects)
BG03-SB02-10	THALLIUM	J	0.12	0.14	LOQ	mg/Kg	J (all detects)
BG03-SB04-05	THALLIUM	J	0.088	0.15	LOQ	mg/Kg	J (all detects)
BG03-SS01-01	THALLIUM	J	0.076	0.15	LOQ	mg/Kg	J (all detects)
BG03-SS02-01	THALLIUM	J	0.097	0.16	LOQ	mg/Kg	J (all detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606425 **Laboratory: RTILABS**

EDD Filename: EDD_1606425_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BG03-SS03-01	THALLIUM	J	0.10	0.15	LOQ	mg/Kg	J (all detects)
BG03-SS04-01	THALLIUM	J	0.11	0.16	LOQ	mg/Kg	J (all detects)
BG03-SS05-01	THALLIUM	J	0.084	0.17	LOQ	mg/Kg	J (all detects)
BG03-SS06-01	THALLIUM	J	0.081	0.18	LOQ	mg/Kg	J (all detects)
BG03-SS07-01	THALLIUM	J	0.068	0.16	LOQ	mg/Kg	J (all detects)

Method: 8270D-MOD

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BG03-SB04-05	BIS(2-ETHYLHEXYL) PHTHALATE	J	0.035	0.18	LOQ	mg/Kg	J (all detects)
BG03-SS01-01	BENZOIC ACID DI-N-OCTYL PHTHALATE	JYZ J	0.27 0.022	1.1 0.18	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG03-SS03-01	BENZOIC ACID	JYZ	0.28	1.1	LOQ	mg/Kg	J (all detects)
BG03-SS07-01	BENZOIC ACID	JYZ	0.47	1.2	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606431		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	10 soil samples for a project-specific list of lead		
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA		
Completed:	August 25, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606431. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✓ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

NA Surrogate recoveries

✓ Laboratory duplicate results

✓ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR. (no data qualifiers were assigned)

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606431

Laboratory: RTILABS

EDD Filename: EDD_1606431_SEDD_2a_v1_rev

eQAPP Name: Former_Camp_Hero

No Data Review Qualifiers Applied.

Data Review Summary

Lab Reporting Batch ID: 1606431 **Laboratory: RTILABS**

EDD Filename: EDD_1606431_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	A
Surrogate/Tracer Spikes	N
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	A
Compound Quantitation	A
Field Duplicates	A
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606465		
Date(s) of Collection:	June 13th, 2016 – June 14th, 2016		
Number/Type Samples & Analyses:	5 groundwater samples and 2 trip blanks for a project-specific list of VOCs, SVOCs, and PAHs		
Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 31st,2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606465. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

NA Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

Samples FPH-SB01-GW, FPH-SB02-GW, FPH-SB03-GW, FPH-SB04-GW, and FPH-SB04-GW DUP were analyzed by the lab for 8270D SIM and regular 8270D. The final results will be presented in 8270D except for FPH-SB01-GW.

The following table defines the data qualifiers assigned by ADR and/or during manual data review of ADR output:

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D** ***Matrix:*** **Water**

Sample ID: **FPH-SB02-GW** ***Collected:*** **6/13/2016 4:00:00 PM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.6	U	9.6	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.6	UYZ	9.6	LOD	24	LOQ	ug/L	UJ	Lcs, Lcs
PHENOL	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: **FPH-SB02-GW** ***Collected:*** **6/13/2016 4:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	9.6	U	9.6	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.96	U	0.96	LOD	9.6	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
4-NITROANILINE	0.48	U	0.48	LOD	9.6	LOQ	ug/L	UJ	Surr
ACENAPHTHENE	10		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
ACENAPHTHYLENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
ANTHRACENE	1.5		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
BENZ(A)ANTHRACENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
Benzo (g,h,i) perylene	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
BENZO(A)PYRENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
BENZO(B)FLUORANTHENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
BENZO(K)FLUORANTHENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
BENZYL ALCOHOL	0.48	U	0.48	LOD	24	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.48	U	0.48	LOD	0.96	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.48	UYZ	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D** ***Matrix:*** **Water**

Sample ID: **FPH-SB02-GW** ***Collected:*** **6/13/2016 4:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BIS(2-ETHYLHEXYL) PHTHALATE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
CARBAZOLE	1.8	J	0.48	LOD	4.8	LOQ	ug/L	J	RI, Surr
CHRYSENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
DIBENZO(A,H)ANTHRACENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
DIBENZOFURAN	0.48	U	0.48	LOD	3.8	LOQ	ug/L	UJ	Surr
DIETHYL PHTHALATE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
FLUORANTHENE	0.70		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
FLUORENE	11		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
HEXACHLOROBENZENE	0.48	U	0.48	LOD	0.96	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.48	U	0.48	LOD	0.96	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.96	U	0.96	LOD	4.8	LOQ	ug/L	UJ	Surr
NAPHTHALENE	44		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
NITROBENZENE	0.48	U	0.48	LOD	2.9	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.48	UY	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
PHENANTHRENE	22		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
PYRENE	1.4		0.14	LOD	0.19	LOQ	ug/L	J-	Surr

Sample ID: **FPH-SB03-GW** ***Collected:*** **6/13/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
4-NITROPHENOL	9.4	U	9.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.4	UYZ	9.4	LOD	24	LOQ	ug/L	UJ	Lcs, Lcs
PHENOL	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D** ***Matrix:*** **Water**

Sample ID: **FPH-SB03-GW** ***Collected:*** **6/13/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.94	U	0.94	LOD	4.7	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	9.4	U	9.4	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.94	U	0.94	LOD	9.4	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	2.4	U	2.4	LOD	4.7	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
4-NITROANILINE	0.47	U	0.47	LOD	9.4	LOQ	ug/L	UJ	Surr
ACENAPHTHENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
ACENAPHTHYLENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
ANTHRACENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
BENZ(A)ANTHRACENE	0.64		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
Benzo (g,h,i) perylene	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
BENZO(A)PYRENE	0.26		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
BENZO(B)FLUORANTHENE	0.38		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
BENZO(K)FLUORANTHENE	0.12	J	0.14	LOD	0.19	LOQ	ug/L	J	RI, Surr
BENZYL ALCOHOL	0.47	U	0.47	LOD	24	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.47	U	0.47	LOD	0.94	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.47	UYZ	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
CARBAZOLE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
CHRYSENE	0.68		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
DIBENZO(A,H)ANTHRACENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
DIBENZOFURAN	0.47	U	0.47	LOD	3.8	LOQ	ug/L	UJ	Surr
DIETHYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D **Matrix:** Water

Sample ID: FPH-SB03-GW **Collected:** 6/13/2016 3:00:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIMETHYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
FLUORANTHENE	4.3		0.14	LOD	0.19	LOQ	ug/L	J-	Surr
FLUORENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
HEXACHLOROBENZENE	0.47	U	0.47	LOD	0.94	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.47	U	0.47	LOD	0.94	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.94	U	0.94	LOD	4.7	LOQ	ug/L	UJ	Surr
NITROBENZENE	0.47	U	0.47	LOD	2.8	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.47	UY	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
PYRENE	8.5		0.14	LOD	0.19	LOQ	ug/L	J-	Surr

Sample ID: FPH-SB04-GW **Collected:** 6/13/2016 1:45:00 PM **Analysis Type:** Dilution-1/TOT-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	180		1.4	LOD	1.9	LOQ	ug/L	J	Fd
2-METHYLNAPHTHALENE	310		1.4	LOD	1.9	LOQ	ug/L	J	Fd
NAPHTHALENE	92		1.4	LOD	1.9	LOQ	ug/L	J	Fd

Sample ID: FPH-SB04-GW **Collected:** 6/13/2016 1:45:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.4	U	9.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.4	UYZ	9.4	LOD	24	LOQ	ug/L	UJ	Lcs, Lcs
PHENOL	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D **Matrix:** Water

Sample ID: FPH-SB04-GW **Collected:** 6/13/2016 1:45:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	14		0.14	LOD	0.19	LOQ	ug/L	J	Fd
BENZ(A)ANTHRACENE	0.23		0.14	LOD	0.19	LOQ	ug/L	J	Fd
CHRYSENE	0.11	J	0.14	LOD	0.19	LOQ	ug/L	J	Rl, Fd
DIBENZOFURAN	9.5		0.47	LOD	3.8	LOQ	ug/L	J	Fd
FLUORANTHENE	1.0		0.14	LOD	0.19	LOQ	ug/L	J	Fd
FLUORENE	19		0.14	LOD	0.19	LOQ	ug/L	J	Fd
N-NITROSODIMETHYLAMINE	0.47	UY	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs
PHENANTHRENE	38		0.14	LOD	0.19	LOQ	ug/L	J	Fd
PYRENE	2.3		0.14	LOD	0.19	LOQ	ug/L	J	Fd

Sample ID: FPH-SB04-GW DUP **Collected:** 6/13/2016 1:45:00 PM **Analysis Type:** Dilution-1/TOT-BASE/ NEUTRAL **Dilution:** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	110		2.9	LOD	3.8	LOQ	ug/L	J	Fd
2-METHYLNAPHTHALENE	190		2.9	LOD	3.8	LOQ	ug/L	J	Fd

Sample ID: FPH-SB04-GW DUP **Collected:** 6/13/2016 1:45:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.5	U	9.5	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.5	UYZ	9.5	LOD	24	LOQ	ug/L	UJ	Lcs, Lcs
PHENOL	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: FPH-SB04-GW DUP **Collected:** 6/13/2016 1:45:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	9.2		0.14	LOD	0.19	LOQ	ug/L	J	Fd
BENZ(A)ANTHRACENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Fd
CHRYSENE	0.14	U	0.14	LOD	0.19	LOQ	ug/L	UJ	Fd
DIBENZOFURAN	0.48	U	0.48	LOD	3.8	LOQ	ug/L	UJ	Fd
FLUORANTHENE	0.58		0.14	LOD	0.19	LOQ	ug/L	J	Fd
FLUORENE	11		0.14	LOD	0.19	LOQ	ug/L	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D **Matrix: Water**

Sample ID: FPH-SB04-GW DUP **Collected:** 6/13/2016 1:45:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	43		0.14	LOD	0.19	LOQ	ug/L	J	Fd
N-NITROSODIMETHYLAMINE	0.48	UY	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs
PHENANTHRENE	24		0.14	LOD	0.19	LOQ	ug/L	J	Fd
PYRENE	0.96		0.14	LOD	0.19	LOQ	ug/L	J	Fd

Method Category: SVOA

Method: 8270D SIM **Matrix: Water**

Sample ID: FPH-SB01-GW **Collected:** 6/14/2016 8:50:00 AM **Analysis Type:** Dilution-1/TOT-BASE/ NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORENE	2.0		0.096	LOD	0.096	LOQ	ug/L	J+	Lcs

Sample ID: FPH-SB01-GW **Collected:** 6/14/2016 8:50:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.55	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
2-METHYLNAPHTHALENE	0.35	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
ANTHRACENE	0.029	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
NAPHTHALENE	0.40	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs
PHENANTHRENE	0.082	Q	0.019	LOD	0.019	LOQ	ug/L	J+	Lcs

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: FPH-SB01-GW **Collected:** 6/14/2016 8:50:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UY	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	16	JYZ	2.4	LOD	24	LOQ	ug/L	J	Rl, Lcs, Lcs
PHENOL	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **FPH-SB01-GW** ***Collected:*** **6/14/2016 8:50:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRICHLOROBENZENE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	2.4	U	2.4	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.95	U	0.95	LOD	9.5	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
4-NITROANILINE	2.4	U	2.4	LOD	9.5	LOQ	ug/L	UJ	Surr
BENZYL ALCOHOL	2.4	U	2.4	LOD	24	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	2.4	UY	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	2.4	UY	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	2.4	UYZ	2.4	LOD	4.8	LOQ	ug/L	UJ	Lcs, Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
CARBAZOLE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
DIBENZOFURAN	0.95	U	0.95	LOD	3.8	LOQ	ug/L	UJ	Surr
DIETHYL PHTHALATE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
HEXACHLOROBENZENE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
NITROBENZENE	2.4	U	2.4	LOD	2.9	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.95	UY	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: FPH-SB01-GW **Collected:** 6/14/2016 8:50:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIPHENYLAMINE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr

Method Category: VOA

Method: 8260C **Matrix: Water**

Sample ID: FPH-SB01-GW **Collected:** 6/14/2016 8:50:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	9.3	J	5.0	LOD	10	LOQ	ug/L	J	Rl
2-HEXANONE	1.0	UYQ	1.0	LOD	2.0	LOQ	ug/L	UJ	Lcs
ACETONE	9.2	JY	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CARBON DISULFIDE	0.96	J	0.60	LOD	1.0	LOQ	ug/L	J	Rl
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	1.0		0.60	LOD	1.0	LOQ	ug/L	U	Mb, Tb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ETHYLBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.40	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs

Sample ID: FPH-SB02-GW **Collected:** 6/13/2016 4:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		0.60	LOD	10	LOQ	ug/L	U	Tb
CARBON DISULFIDE	0.77	J	0.60	LOD	1.0	LOQ	ug/L	J	Rl

Sample ID: FPH-SB03-GW **Collected:** 6/13/2016 3:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.0	UYQ	1.0	LOD	2.0	LOQ	ug/L	UJ	Lcs
ACETONE	7.9	JY	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **FPH-SB03-GW** ***Collected:*** **6/13/2016 3:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CARBON DISULFIDE	0.98	J	0.60	LOD	1.0	LOQ	ug/L	J	Rl
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	1.2		0.60	LOD	1.0	LOQ	ug/L	U	Mb, Tb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ETHYLBENZENE	31	Q	0.60	LOD	1.0	LOQ	ug/L	J-	Lcs
METHYLENE CHLORIDE	0.40	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
TOLUENE	0.61	J	0.60	LOD	1.0	LOQ	ug/L	J	Rl
Xylene (Total)	56	Q	1.8	LOD	3.0	LOQ	ug/L	J-	Lcs

Sample ID: **FPH-SB04-GW** ***Collected:*** **6/13/2016 1:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	5.0	U	5.0	LOD	10	LOQ	ug/L	UJ	Fd
2-HEXANONE	1.0	UYQ	1.0	LOD	2.0	LOQ	ug/L	UJ	Lcs
ACETONE	15	Y	0.60	LOD	10	LOQ	ug/L	UJ	Mb, Fd, Tb
BENZENE	0.49	J	0.60	LOD	1.0	LOQ	ug/L	J	Rl, Fd
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	1.1		0.60	LOD	1.0	LOQ	ug/L	U	Mb, Tb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ETHYLBENZENE	2.6	Q	0.60	LOD	1.0	LOQ	ug/L	J	Lcs, Fd
METHYLENE CHLORIDE	0.27	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.9	JQ	1.8	LOD	3.0	LOQ	ug/L	J	Rl, Lcs, Fd

Sample ID: **FPH-SB04-GW DUP** ***Collected:*** **6/13/2016 1:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	4.7	J	5.0	LOD	10	LOQ	ug/L	J	Rl, Fd
2-HEXANONE	1.0	UYQ	1.0	LOD	2.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **FPH-SB04-GW DUP** ***Collected:*** **6/13/2016 1:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	10	Y	0.60	LOD	10	LOQ	ug/L	UJ	Mb, Fd, Tb
BENZENE	1.6		0.60	LOD	1.0	LOQ	ug/L	J	Fd
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	1.1		0.60	LOD	1.0	LOQ	ug/L	U	Mb, Tb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ETHYLBENZENE	18	Q	0.60	LOD	1.0	LOQ	ug/L	J	Lcs, Fd
METHYLENE CHLORIDE	0.28	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	17	Q	1.8	LOD	3.0	LOQ	ug/L	J	Lcs, Fd

Sample ID: **TB-GW-061316-01** ***Collected:*** **6/13/2016 8:30:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.0	UYQ	1.0	LOD	2.0	LOQ	ug/L	UJ	Lcs
ACETONE	8.0	JY	0.60	LOD	10	LOQ	ug/L	U	Mb
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	1.5		0.60	LOD	1.0	LOQ	ug/L	U	Mb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ETHYLBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.62	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs

Sample ID: **TB-GW-061416-01** ***Collected:*** **6/14/2016 8:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.0	UYQ	1.0	LOD	2.0	LOQ	ug/L	UJ	Lcs
ACETONE	4.9	JY	0.60	LOD	10	LOQ	ug/L	U	Mb
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **TB-GW-061416-01** ***Collected:*** **6/14/2016 8:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
CHLOROMETHANE	1.2		0.60	LOD	1.0	LOQ	ug/L	U	Mb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ETHYLBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.52	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK 0626	6/26/2016 4:52:00 PM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	1.9 ug/L 0.43 ug/L 0.66 ug/L	FPH-SB01-GW FPH-SB03-GW FPH-SB04-GW FPH-SB04-GW DUP TB-GW-061316-01 TB-GW-061416-01

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
FPH-SB01-GW(Initial/TOT)	ACETONE	9.2 ug/L	10U ug/L
FPH-SB01-GW(Initial/TOT)	CHLOROMETHANE	1.0 ug/L	1.0U ug/L
FPH-SB01-GW(Initial/TOT)	METHYLENE CHLORIDE	0.40 ug/L	5.0U ug/L
FPH-SB03-GW(Initial/TOT)	ACETONE	7.9 ug/L	10U ug/L
FPH-SB03-GW(Initial/TOT)	CHLOROMETHANE	1.2 ug/L	1.2U ug/L
FPH-SB03-GW(Initial/TOT)	METHYLENE CHLORIDE	0.40 ug/L	5.0U ug/L
FPH-SB04-GW DUP(Initial/TOT)	ACETONE	10 ug/L	10U ug/L
FPH-SB04-GW DUP(Initial/TOT)	CHLOROMETHANE	1.1 ug/L	1.1U ug/L
FPH-SB04-GW DUP(Initial/TOT)	METHYLENE CHLORIDE	0.28 ug/L	5.0U ug/L
FPH-SB04-GW(Initial/TOT)	ACETONE	15 ug/L	15U ug/L
FPH-SB04-GW(Initial/TOT)	CHLOROMETHANE	1.1 ug/L	1.1U ug/L
FPH-SB04-GW(Initial/TOT)	METHYLENE CHLORIDE	0.27 ug/L	5.0U ug/L
TB-GW-061316-01(Initial/TOT)	ACETONE	8.0 ug/L	10U ug/L
TB-GW-061316-01(Initial/TOT)	CHLOROMETHANE	1.5 ug/L	1.5U ug/L
TB-GW-061316-01(Initial/TOT)	METHYLENE CHLORIDE	0.62 ug/L	5.0U ug/L
TB-GW-061416-01(Initial/TOT)	ACETONE	4.9 ug/L	10U ug/L
TB-GW-061416-01(Initial/TOT)	CHLOROMETHANE	1.2 ug/L	1.2U ug/L
TB-GW-061416-01(Initial/TOT)	METHYLENE CHLORIDE	0.52 ug/L	5.0U ug/L

Surrogate Outlier Report

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
FPH-SB01-GW (Initial/TOT)	TOLUENE-D8	88.7	89.00-112.00	No Affected Compounds	
FPH-SB02-GW (Initial/TOT)	4-Bromofluorobenzene	124	85.00-114.00	No Affected Compounds	
FPH-SB03-GW (Initial/TOT)	4-Bromofluorobenzene	124	85.00-114.00	No Affected Compounds	
FPH-SB04-GW (Initial/TOT)	TOLUENE-D8	87.8	89.00-112.00	No Affected Compounds	
TB-GW-061316-01 (Initial/TOT)	TOLUENE-D8	88	89.00-112.00	No Affected Compounds	
TB-GW-061416-01 (Initial/TOT)	TOLUENE-D8	88.9	89.00-112.00	No Affected Compounds	

Method: 8270D
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
FPH-SB02-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5 Terphenyl-d14	34.2 31.3 14.6 38.4	44.00-119.00 44.00-120.00 30.00-130.00 50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
FPH-SB03-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5 Terphenyl-d14	43.3 41.6 22.7 46.6	44.00-119.00 44.00-120.00 30.00-130.00 50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
FPH-SB04-GW DUP (Initial/TOT)	PHENOL-D5	21.4	30.00-130.00	No Affected Compounds	
FPH-SB04-GW (Initial/TOT)	PHENOL-D5	21.6	30.00-130.00	No Affected Compounds	

Method: 8270D SIM
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
FPH-SB02-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5	281 331	44.00-119.00 44.00-120.00	All Base/Neutral Target Analytes	J+(all detects)
FPH-SB03-GW (Initial/TOT)	Terphenyl-d14	14.8	50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
FPH-SB03-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5	653 180	44.00-119.00 44.00-120.00	All Base/Neutral Target Analytes	J+(all detects)
FPH-SB04-GW (Initial/TOT)	2-FLUOROBIPHENYL	27.6	44.00-119.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
FPH-SB04-GW (Initial/TOT)	Terphenyl-d14	150	50.00-134.00	All Base/Neutral Target Analytes	J+(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Water**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
FPH-SB01-GW (Initial/TOT)	2-FLUOROBIPHENYL	38.4	44.00-119.00	All Base/Neutral Target Analytes	
	Nitrobenzene-d5	35	44.00-120.00		J-(all detects)
	PHENOL-D5	27.4	30.00-130.00		UJ(all non-detects)
	Terphenyl-d14	27.1	50.00-134.00		

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40179 (FPH-SB01-GW FPH-SB02-GW FPH-SB03-GW FPH-SB04-GW FPH-SB04-GW DUP)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ANTHRACENE BENZ(A)ANTHRACENE FLUORENE NAPHTHALENE PHENANTHRENE PYRENE	117 150 122 128 122 116 143 125	- - - - - - - -	41.00-115.00 39.00-114.00 53.00-119.00 59.00-120.00 50.00-118.00 43.00-114.00 53.00-115.00 53.00-121.00	- - - - - - - -	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ANTHRACENE BENZ(A)ANTHRACENE FLUORENE NAPHTHALENE PHENANTHRENE PYRENE	J+ (all detects)

Method: 8270D
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-1-40190 LCSD-1-40190 (FPH-SB01-GW FPH-SB02-GW FPH-SB03-GW FPH-SB04-GW FPH-SB04-GW DUP)	BENZOIC ACID	42.6	-	50.00-130.00	61.18 (25.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)
LCS-1-40190 LCSD-1-40190 (FPH-SB01-GW FPH-SB02-GW FPH-SB03-GW FPH-SB04-GW FPH-SB04-GW DUP)	4-NITROPHENOL N-NITROSODIMETHYLAMINE PHENOL	46.9 30.1 31.8	46.6 35.3 -	50.00-130.00 50.00-130.00 34.00-121.00	- - -	4-NITROPHENOL N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40190 LCSD-40190 (FPH-SB01-GW FPH-SB02-GW FPH-SB03-GW FPH-SB04-GW FPH-SB04-GW DUP)	BENZOIC ACID	42.6	-	50.00-130.00	61.18 (25.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)
LCS-40190 LCSD-40190 (FPH-SB01-GW FPH-SB02-GW FPH-SB03-GW FPH-SB04-GW FPH-SB04-GW DUP)	4-NITROPHENOL BIS(2-CHLOROISOPROPYL)ETHE N-NITROSODIMETHYLAMINE PHENOL	46.9 49.5 30.1 31.8	46.6 - 35.3 -	50.00-130.00 50.00-130.00 50.00-130.00 34.00-121.00	- - - -	4-NITROPHENOL BIS(2-CHLOROISOPROPYL)ETH N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06261 VOA11B LCSD 0626 (FPH-SB01-GW FPH-SB03-GW FPH-SB04-GW FPH-SB04-GW DUP TB-GW-061316-01 TB-GW-061416-01)	2-HEXANONE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE ETHYLBENZENE STYRENE Xylene (Total)	- 63.1 66.5 67.7 - - -	55.6 61.9 64.8 64 78.1 71.1 75.3	57.00-139.00 66.00-130.00 74.00-126.00 75.00-124.00 79.00-121.00 78.00-123.00 79.00-121.00	- - - - - - -	2-HEXANONE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE ETHYLBENZENE STYRENE Xylene (Total)	J-(all detects) UJ(all non-detects)

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	FPH-SB04-GW	FPH-SB04-GW DUP			
2-Butanone [MEK]	10 U	4.7	200	30.00	J (all detects) UJ (all non-detects)
ACETONE	15	10	40	30.00	
BENZENE	0.49	1.6	106	30.00	
ETHYLBENZENE	2.6	18	150	30.00	
Xylene (Total)	1.9	17	160	30.00	

Method: 8270D SIM
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	FPH-SB04-GW	FPH-SB04-GW DUP			
1-METHYLNAPHTHALENE	1000	83	169	30.00	
2-METHYLNAPHTHALENE	1800	140	171	30.00	
ACENAPHTHENE	140	7.5	180	30.00	
ACENAPHTHYLENE	17	0.45	190	30.00	
ANTHRACENE	20	0.72	186	30.00	
BENZ(A)ANTHRACENE	0.95 U	0.13	200	30.00	
BENZO(A)PYRENE	0.070	0.029	83	30.00	
BENZO(B)FLUORANTHENE	0.28	0.048	141	30.00	
BENZO(G,H,I)PERYLENE	0.038	0.019 U	200	30.00	J(all detects) UJ(all non-detects)
BENZO(K)FLUORANTHENE	0.019 U	0.028	200	30.00	
CHRYSENE	0.95 U	0.052	200	30.00	
DIBENZO(A,H)ANTHRACENE	0.021	0.019 U	200	30.00	
FLUORANTHENE	5.6	0.25	183	30.00	
FLUORENE	150	6.8	183	30.00	
INDENO(1,2,3-CD)PYRENE	0.036	0.019 U	200	30.00	
NAPHTHALENE	390	62	145	30.00	
PHENANTHRENE	360	12	187	30.00	
PYRENE	10	0.44	183	30.00	

Method: 8270D
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	FPH-SB04-GW	FPH-SB04-GW DUP			
1-METHYLNAPHTHALENE	180	110	48	30.00	
2-METHYLNAPHTHALENE	310	190	48	30.00	
ACENAPHTHENE	14	9.2	41	30.00	
BENZ(A)ANTHRACENE	0.23	0.19 U	200	30.00	
CHRYSENE	0.11	0.19 U	200	30.00	
DIBENZOFURAN	9.5	3.8 U	200	30.00	J(all detects) UJ(all non-detects)
FLUORANTHENE	1.0	0.58	53	30.00	
FLUORENE	19	11	53	30.00	
NAPHTHALENE	92	43	73	30.00	
PHENANTHRENE	38	24	45	30.00	
PYRENE	2.3	0.96	82	30.00	

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-GW-061316-01(Initial/TOT)	6/13/2016 8:30:00 AM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	8 ug/L 1.5 ug/L 0.62 ug/L	FPH-SB02-GW FPH-SB03-GW FPH-SB04-GW FPH-SB04-GW DUP
TB-GW-061416-01(Initial/TOT)	6/14/2016 8:00:00 AM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	4.9 ug/L 1.2 ug/L 0.52 ug/L	FPH-SB01-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
FPH-SB01-GW(Initial/TOT)	ACETONE	9.2 ug/L	10U ug/L
FPH-SB01-GW(Initial/TOT)	CHLOROMETHANE	1.0 ug/L	1.0U ug/L
FPH-SB01-GW(Initial/TOT)	METHYLENE CHLORIDE	0.40 ug/L	5.0U ug/L
FPH-SB02-GW(Initial/TOT)	ACETONE	14 ug/L	14U ug/L
FPH-SB03-GW(Initial/TOT)	ACETONE	7.9 ug/L	10U ug/L
FPH-SB03-GW(Initial/TOT)	CHLOROMETHANE	1.2 ug/L	1.2U ug/L
FPH-SB03-GW(Initial/TOT)	METHYLENE CHLORIDE	0.40 ug/L	5.0U ug/L
FPH-SB04-GW DUP(Initial/TOT)	ACETONE	10 ug/L	10U ug/L
FPH-SB04-GW DUP(Initial/TOT)	CHLOROMETHANE	1.1 ug/L	1.1U ug/L
FPH-SB04-GW DUP(Initial/TOT)	METHYLENE CHLORIDE	0.28 ug/L	5.0U ug/L
FPH-SB04-GW(Initial/TOT)	ACETONE	15 ug/L	15U ug/L
FPH-SB04-GW(Initial/TOT)	CHLOROMETHANE	1.1 ug/L	1.1U ug/L
FPH-SB04-GW(Initial/TOT)	METHYLENE CHLORIDE	0.27 ug/L	5.0U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 1606465 **Laboratory: RTILABS**

EDD Filename: EDD_1606465_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FPH-SB01-GW	2-Butanone [MEK] ACETONE CARBON DISULFIDE METHYLENE CHLORIDE	J JY J J	9.3 9.2 0.96 0.40	10 10 1.0 5.0	LOQ LOQ LOQ LOQ	ug/L ug/L ug/L ug/L	J (all detects)
FPH-SB02-GW	CARBON DISULFIDE	J	0.77	1.0	LOQ	ug/L	J (all detects)
FPH-SB03-GW	ACETONE CARBON DISULFIDE METHYLENE CHLORIDE TOLUENE	JY J J J	7.9 0.98 0.40 0.61	10 1.0 5.0 1.0	LOQ LOQ LOQ LOQ	ug/L ug/L ug/L ug/L	J (all detects)
FPH-SB04-GW	BENZENE METHYLENE CHLORIDE Xylene (Total)	J J JQ	0.49 0.27 1.9	1.0 5.0 3.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
FPH-SB04-GW DUP	2-Butanone [MEK] METHYLENE CHLORIDE	J J	4.7 0.28	10 5.0	LOQ LOQ	ug/L ug/L	J (all detects)
TB-GW-061316-01	ACETONE METHYLENE CHLORIDE	JY J	8.0 0.62	10 5.0	LOQ LOQ	ug/L ug/L	J (all detects)
TB-GW-061416-01	ACETONE METHYLENE CHLORIDE	JY J	4.9 0.52	10 5.0	LOQ LOQ	ug/L ug/L	J (all detects)

Method: 8270D

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FPH-SB02-GW	CARBAZOLE	J	1.8	4.8	LOQ	ug/L	J (all detects)
FPH-SB03-GW	BENZO(K)FLUORANTHENE	J	0.12	0.19	LOQ	ug/L	J (all detects)
FPH-SB04-GW	CHRYSENE	J	0.11	0.19	LOQ	ug/L	J (all detects)

Method: 8270D-MOD

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FPH-SB01-GW	BENZOIC ACID	JYZ	16	24	LOQ	ug/L	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606512		
Date(s) of Collection:	June 13th, 2016		
Number/Type Samples & Analyses:	14 soil samples for a project-specific list of SVOCs, PCBs, lead, and metals		
Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 30th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606512. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR and/or during manual data review of ADR output:

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **H5-SS01-01** ***Collected:*** **6/13/2016 9:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.5	J	1.0	LOD	2.1	LOQ	mg/Kg	J	Rl
ARSENIC	2.6	J	2.1	LOD	4.1	LOQ	mg/Kg	J	Rl
COBALT	1.4	J	0.51	LOD	2.1	LOQ	mg/Kg	J	Rl
SILVER	0.58	J	0.51	LOD	2.1	LOQ	mg/Kg	J	Rl
NICKEL	4.4	J	2.1	LOD	10	LOQ	mg/Kg	J	Rl

Sample ID: **H5-SS01-02** ***Collected:*** **6/13/2016 9:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.074	J	0.045	LOD	0.23	LOQ	mg/Kg	J	Rl
COBALT	0.90	J	0.23	LOD	0.91	LOQ	mg/Kg	J	Rl
NICKEL	3.9	J	0.91	LOD	4.5	LOQ	mg/Kg	J	Rl

Sample ID: **H5-SS02-01** ***Collected:*** **6/13/2016 9:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.1	J	1.2	LOD	2.5	LOQ	mg/Kg	J	Rl, Fd
ARSENIC	2.7	J	2.5	LOD	4.9	LOQ	mg/Kg	J	Rl
BERYLLIUM	0.43	J	0.12	LOD	0.62	LOQ	mg/Kg	J	Rl, Fd
CADMIUM	0.53	J	0.12	LOD	0.62	LOQ	mg/Kg	J	Rl, Fd
CHROMIUM	5.0		0.99	LOD	1.2	LOQ	mg/Kg	J	Fd
COBALT	0.90	J	0.62	LOD	2.5	LOQ	mg/Kg	J	Rl, Fd
COPPER	18		2.5	LOD	12	LOQ	mg/Kg	J	Fd
MAGNESIUM	230		12	LOD	120	LOQ	mg/Kg	J	Fd
MANGANESE	20		0.62	LOD	2.5	LOQ	mg/Kg	J	Fd
NICKEL	4.3	J	2.5	LOD	12	LOQ	mg/Kg	J	Rl, Fd
POTASSIUM	260		25	LOD	49	LOQ	mg/Kg	J	Fd
SELENIUM	3.7	U	3.7	LOD	4.9	LOQ	mg/Kg	UJ	Fd
SILVER	0.23	J	0.62	LOD	2.5	LOQ	mg/Kg	J	Rl, Fd
SODIUM	220		12	LOD	120	LOQ	mg/Kg	J	Fd
VANADIUM	9.5		2.5	LOD	6.2	LOQ	mg/Kg	J	Fd
ZINC	50		1.2	LOD	12	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **H5-SS02-01 DUP** ***Collected:*** **6/13/2016 9:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	23		1.2	LOD	2.4	LOQ	mg/Kg	J	Fd
ARSENIC	4.2	J	2.4	LOD	4.7	LOQ	mg/Kg	J	Rl
BERYLLIUM	20		0.12	LOD	0.59	LOQ	mg/Kg	J	Fd
CADMIUM	20		0.12	LOD	0.59	LOQ	mg/Kg	J	Fd
CHROMIUM	26		0.94	LOD	1.2	LOQ	mg/Kg	J	Fd
COBALT	23		0.59	LOD	2.4	LOQ	mg/Kg	J	Fd
COPPER	41		2.4	LOD	12	LOQ	mg/Kg	J	Fd
MAGNESIUM	460		12	LOD	120	LOQ	mg/Kg	J	Fd
MANGANESE	40		0.59	LOD	2.4	LOQ	mg/Kg	J	Fd
NICKEL	28		2.4	LOD	12	LOQ	mg/Kg	J	Fd
POTASSIUM	490		24	LOD	47	LOQ	mg/Kg	J	Fd
SELENIUM	4.8		3.5	LOD	4.7	LOQ	mg/Kg	J	Fd
SILVER	9.5		0.59	LOD	2.4	LOQ	mg/Kg	J	Fd
SODIUM	500		12	LOD	120	LOQ	mg/Kg	J	Fd
VANADIUM	26		2.4	LOD	5.9	LOQ	mg/Kg	J	Fd
ZINC	150		1.2	LOD	12	LOQ	mg/Kg	J	Fd

Sample ID: **H5-SS02-02** ***Collected:*** **6/13/2016 9:20:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.77	J	1.0	LOD	2.0	LOQ	mg/Kg	J	Rl
LEAD	4.3	J	1.0	LOD	5.1	LOQ	mg/Kg	J	Rl
NICKEL	3.0	J	1.0	LOD	5.1	LOQ	mg/Kg	J	Rl
SILVER	0.67	J	0.25	LOD	1.0	LOQ	mg/Kg	J	Rl

Sample ID: **WDS-SB08-05** ***Collected:*** **6/13/2016 1:20:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.080	J	0.043	LOD	0.22	LOQ	mg/Kg	J	Rl
CADMIUM	0.071	J	0.043	LOD	0.22	LOQ	mg/Kg	J	Rl
NICKEL	4.0	J	0.87	LOD	4.3	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: WDS-SB09-06 **Collected:** 6/13/2016 1:05:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.69	J	0.73	LOD	1.5	LOQ	mg/Kg	J	RI
BERYLLIUM	0.15	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	2.9	J	0.73	LOD	3.7	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB11-08 **Collected:** 6/13/2016 10:40:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.071	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB12-05 **Collected:** 6/13/2016 8:35:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.033	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	2.8	J	0.72	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB13-05 **Collected:** 6/13/2016 8:20:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.4	J	0.73	LOD	1.5	LOQ	mg/Kg	J	RI
BERYLLIUM	0.15	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.049	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6010C-STAR **Matrix: Soil**

Sample ID: H5-SS04-01 **Collected:** 6/13/2016 9:05:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	7.7	J	4.2	LOD	21	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C-STAR **Matrix: Soil**

Sample ID: H5-SS04-02 **Collected:** 6/13/2016 9:10:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	5.0	J	1.5	LOD	7.5	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H5-SS01-02 **Collected:** 6/13/2016 9:55:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.078	J	0.046	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: H5-SS02-02 **Collected:** 6/13/2016 9:20:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.068	J	0.051	LOD	0.21	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB08-05 **Collected:** 6/13/2016 1:20:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.10	JG	0.044	LOD	0.17	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB09-06 **Collected:** 6/13/2016 1:05:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.091	J	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB11-08 **Collected:** 6/13/2016 10:40:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.10	JG	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: WDS-SB12-05 **Collected:** 6/13/2016 8:35:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.076	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB13-05 **Collected:** 6/13/2016 8:20:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.073	J	0.036	LOD	0.15	LOQ	mg/Kg	J	RI

Method Category: SVOA

Method: 8082A **Matrix: Soil**

Sample ID: H5-SS01-01 **Collected:** 6/13/2016 9:50:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.021	U	0.021	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.021	U	0.021	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.021	U	0.021	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.021	U	0.021	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.021	U	0.021	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.021	U	0.021	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.021	U	0.021	LOD	0.10	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.021	U	0.021	LOD	0.10	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.021	U	0.021	LOD	0.10	LOQ	mg/Kg	UJ	Surr

Sample ID: H5-SS02-01 **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8082A **Matrix:** Soil

Sample ID: H5-SS02-01 **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr

Sample ID: H5-SS02-01 DUP **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.024	U	0.024	LOD	0.12	LOQ	mg/Kg	UJ	Surr

Sample ID: H5-SS03-01 **Collected:** 6/13/2016 9:35:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.028	U	0.028	LOD	0.14	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.028	U	0.028	LOD	0.14	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.028	U	0.028	LOD	0.14	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.028	U	0.028	LOD	0.14	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.028	U	0.028	LOD	0.14	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.028	U	0.028	LOD	0.14	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.028	U	0.028	LOD	0.14	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.028	U	0.028	LOD	0.14	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.028	U	0.028	LOD	0.14	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8082A **Matrix: Soil**

Sample ID: H5-SS03-02 **Collected:** 6/13/2016 9:40:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.027	U	0.027	LOD	0.13	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.027	U	0.027	LOD	0.13	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.027	U	0.027	LOD	0.13	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.027	U	0.027	LOD	0.13	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.027	U	0.027	LOD	0.13	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.027	U	0.027	LOD	0.13	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.027	U	0.027	LOD	0.13	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.027	U	0.027	LOD	0.13	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.027	U	0.027	LOD	0.13	LOQ	mg/Kg	UJ	Surr

Sample ID: H5-SS04-02 **Collected:** 6/13/2016 9:10:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.015	U	0.015	LOD	0.075	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.015	U	0.015	LOD	0.075	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.015	U	0.015	LOD	0.075	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.015	U	0.015	LOD	0.075	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.015	U	0.015	LOD	0.075	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.015	U	0.015	LOD	0.075	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.015	U	0.015	LOD	0.075	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.015	U	0.015	LOD	0.075	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.015	U	0.015	LOD	0.075	LOQ	mg/Kg	UJ	Surr

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: H5-SS02-01 **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0043		0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd
2-METHYLNAPHTHALENE	0.0041		0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd
ACENAPHTHENE	0.0030		0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Soil

Sample ID: H5-SS02-01 **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.0070		0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd
ANTHRACENE	0.0098		0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.018		0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd
BENZO(K)FLUORANTHENE	0.019	Y	0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd
DIBENZO(A,H)ANTHRACENE	0.0028		0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd
FLUORENE	0.0052		0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.015		0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd
PHENANTHRENE	0.0066		0.0025	LOD	0.0025	LOQ	mg/Kg	J	Fd

Sample ID: H5-SS02-01 DUP **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.036	U	0.036	LOD	0.036	LOQ	mg/Kg	UJ	Fd
2-METHYLNAPHTHALENE	0.036	U	0.036	LOD	0.036	LOQ	mg/Kg	UJ	Fd
ACENAPHTHENE	0.036	U	0.036	LOD	0.036	LOQ	mg/Kg	UJ	Fd
ACENAPHTHYLENE	0.036	U	0.036	LOD	0.036	LOQ	mg/Kg	UJ	Fd
ANTHRACENE	0.036	U	0.036	LOD	0.036	LOQ	mg/Kg	UJ	Fd
BENZO(G,H,I)PERYLENE	0.036	U	0.036	LOD	0.036	LOQ	mg/Kg	UJ	Fd
BENZO(K)FLUORANTHENE	0.036	UY	0.036	LOD	0.036	LOQ	mg/Kg	UJ	Fd
DIBENZO(A,H)ANTHRACENE	0.036	U	0.036	LOD	0.036	LOQ	mg/Kg	UJ	Fd
FLUORENE	0.036	U	0.036	LOD	0.036	LOQ	mg/Kg	UJ	Fd
INDENO(1,2,3-CD)PYRENE	0.036	U	0.036	LOD	0.036	LOQ	mg/Kg	UJ	Fd
PHENANTHRENE	0.059		0.036	LOD	0.036	LOQ	mg/Kg	J	Fd

Sample ID: WDS-SB08-05 **Collected:** 6/13/2016 1:20:00 PM **Analysis Type:** Dilution-1-BASE/ NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.025	H	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Ms, EtoA
BENZO(B)FLUORANTHENE	0.031	H	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Ms, EtoA
CHRYSENE	0.024	H	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Ms, EtoA
FLUORANTHENE	0.048	H	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Ms, EtoA
PYRENE	0.043	H	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Ms, EtoA

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: WDS-SB08-05 **Collected:** 6/13/2016 1:20:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.0045		0.00088	LOD	0.00088	LOQ	mg/Kg	J	Ms, Ms
ACENAPHTHYLENE	0.0050		0.00088	LOD	0.00088	LOQ	mg/Kg	J	Ms, Ms
ANTHRACENE	0.043		0.00088	LOD	0.00088	LOQ	mg/Kg	J	Ms, Ms, Ms
BENZO(A)PYRENE	0.041		0.00088	LOD	0.00088	LOQ	mg/Kg	J	Ms, Ms
BENZO(G,H,I)PERYLENE	0.020		0.00088	LOD	0.00088	LOQ	mg/Kg	J	Ms, Ms, Ms
BENZO(K)FLUORANTHENE	0.025		0.00088	LOD	0.00088	LOQ	mg/Kg	J	Ms, Ms
DIBENZO(A,H)ANTHRACENE	0.0012		0.00088	LOD	0.00088	LOQ	mg/Kg	J	Ms, Ms
FLUORENE	0.0048		0.00088	LOD	0.00088	LOQ	mg/Kg	J	Ms, Ms
INDENO(1,2,3-CD)PYRENE	0.019		0.00088	LOD	0.00088	LOQ	mg/Kg	J	Ms, Ms, Ms
PHENANTHRENE	0.042		0.00088	LOD	0.00088	LOQ	mg/Kg	J	Ms, Ms, Ms

Method Category: SVOA

Method: 8270D-MOD **Matrix: Soil**

Sample ID: H5-SS01-01 **Collected:** 6/13/2016 9:50:00 AM **Analysis Type:** Initial-ACID **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	0.31	U	0.31	LOD	1.5	LOQ	mg/Kg	UJ	Surr
2,4,6-TRICHLOROPHENOL	0.31	U	0.31	LOD	1.5	LOQ	mg/Kg	UJ	Surr
2,4-DICHLOROPHENOL	0.77	U	0.77	LOD	1.5	LOQ	mg/Kg	UJ	Surr
2,4-Dimethyl phenol	0.77	U	0.77	LOD	1.5	LOQ	mg/Kg	UJ	Surr
2,4-DINITROPHENOL	1.5	UY	1.5	LOD	7.6	LOQ	mg/Kg	UJ	Surr
2-CHLOROPHENOL	0.77	U	0.77	LOD	1.5	LOQ	mg/Kg	UJ	Surr
2-NITROPHENOL	0.77	U	0.77	LOD	1.5	LOQ	mg/Kg	UJ	Surr
4,6-DINITRO-2-METHYLPHENOL	0.77	U	0.77	LOD	2.9	LOQ	mg/Kg	UJ	Surr
4-CHLORO-3-METHYLPHENOL	0.31	U	0.31	LOD	1.5	LOQ	mg/Kg	UJ	Surr
4-NITROPHENOL	3.1	U	3.1	LOD	7.6	LOQ	mg/Kg	UJ	Surr
BENZOIC ACID	3.1	UYZ	3.1	LOD	9.2	LOQ	mg/Kg	UJ	Surr
PENTACHLOROPHENOL	0.77	UY	0.77	LOD	1.5	LOQ	mg/Kg	UJ	Surr
PHENOL	0.77	U	0.77	LOD	1.5	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **H5-SS01-01** ***Collected:*** **6/13/2016 9:50:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **3**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRICHLOROBENZENE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
1,2-DICHLOROBENZENE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
1,3-DICHLOROBENZENE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
1,4-DICHLOROBENZENE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
2,4-DINITROTOLUENE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
2,6-DINITROTOLUENE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
2-CHLORONAPHTHALENE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
2-NITROANILINE	0.15	U	0.15	LOD	2.9	LOQ	mg/Kg	UJ	Surr
3,3'-DICHLOROBENZIDINE	6.1	U	6.1	LOD	9.2	LOQ	mg/Kg	UJ	Lcs, Surr
3-NITROANILINE	0.15	U	0.15	LOD	2.9	LOQ	mg/Kg	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	0.77	U	0.77	LOD	1.8	LOQ	mg/Kg	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
4-NITROANILINE	0.77	U	0.77	LOD	2.9	LOQ	mg/Kg	UJ	Surr
BENZYL ALCOHOL	0.15	U	0.15	LOD	6.1	LOQ	mg/Kg	UJ	Surr
bis(2-chloroethoxy) methane	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.31	U	0.31	LOD	1.5	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.15	UZ	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.31	U	0.31	LOD	1.5	LOQ	mg/Kg	UJ	Surr
Butyl benzyl phthalate	0.31	U	0.31	LOD	1.5	LOQ	mg/Kg	UJ	Surr
CARBAZOLE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
DIBENZOFURAN	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
DIETHYL PHTHALATE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
DIMETHYL PHTHALATE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
DI-N-BUTYL PHTHALATE	0.31	U	0.31	LOD	1.5	LOQ	mg/Kg	UJ	Surr
DI-N-OCTYL PHTHALATE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBENZENE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBUTADIENE	0.15	U	0.15	LOD	0.46	LOQ	mg/Kg	UJ	Surr
HEXACHLOROETHANE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
ISOPHORONE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
NITROBENZENE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
N-NITROSODIMETHYLAMINE	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr
N-Nitrosodi-n-propylamine	0.15	U	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: H5-SS01-01 **Collected:** 6/13/2016 9:50:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIPHENYLAMINE	0.15	UY	0.15	LOD	1.5	LOQ	mg/Kg	UJ	Surr

Sample ID: H5-SS01-02 **Collected:** 6/13/2016 9:55:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.90	UQ	0.90	LOD	1.3	LOQ	mg/Kg	UJ	Lcs

Sample ID: H5-SS02-01 **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial-ACID **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	1.8	U	1.8	LOD	8.5	LOQ	mg/Kg	UJ	Surr
2,4,6-TRICHLOROPHENOL	1.8	U	1.8	LOD	8.5	LOQ	mg/Kg	UJ	Surr
2,4-DICHLOROPHENOL	4.4	U	4.4	LOD	8.5	LOQ	mg/Kg	UJ	Surr
2,4-Dimethyl phenol	4.4	U	4.4	LOD	8.5	LOQ	mg/Kg	UJ	Surr
2,4-DINITROPHENOL	8.9	U	8.9	LOD	44	LOQ	mg/Kg	UJ	Surr
2-CHLOROPHENOL	4.4	U	4.4	LOD	8.5	LOQ	mg/Kg	UJ	Surr
2-NITROPHENOL	4.4	U	4.4	LOD	8.5	LOQ	mg/Kg	UJ	Surr
4,6-DINITRO-2-METHYLPHENOL	4.4	U	4.4	LOD	17	LOQ	mg/Kg	UJ	Surr
4-CHLORO-3-METHYLPHENOL	1.8	U	1.8	LOD	8.5	LOQ	mg/Kg	UJ	Surr
4-NITROPHENOL	18	UY	18	LOD	44	LOQ	mg/Kg	UJ	Surr
BENZOIC ACID	18	UYZ	18	LOD	53	LOQ	mg/Kg	UJ	Surr, Fd
PENTACHLOROPHENOL	4.4	U	4.4	LOD	8.5	LOQ	mg/Kg	UJ	Surr
PHENOL	4.4	U	4.4	LOD	8.5	LOQ	mg/Kg	UJ	Surr

Sample ID: H5-SS02-01 **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
1,2-DICHLOROBENZENE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
1,3-DICHLOROBENZENE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
1,4-DICHLOROBENZENE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
2,4-DINITROTOLUENE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **H5-SS02-01** ***Collected:*** **6/13/2016 9:15:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **3**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2,6-DINITROTOLUENE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
2-CHLORONAPHTHALENE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
2-NITROANILINE	0.89	U	0.89	LOD	17	LOQ	mg/Kg	UJ	Surr
3,3'-DICHLOROBENZIDINE	35	UQ	35	LOD	53	LOQ	mg/Kg	UJ	Lcs, Surr
3-NITROANILINE	0.89	U	0.89	LOD	17	LOQ	mg/Kg	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	4.4	U	4.4	LOD	11	LOQ	mg/Kg	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
4-NITROANILINE	4.4	U	4.4	LOD	17	LOQ	mg/Kg	UJ	Surr
BENZYL ALCOHOL	0.89	U	0.89	LOD	35	LOQ	mg/Kg	UJ	Surr
bis(2-chloroethoxy) methane	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	1.8	U	1.8	LOD	8.5	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.89	UYZ	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	1.8	U	1.8	LOD	8.5	LOQ	mg/Kg	UJ	Surr
Butyl benzyl phthalate	1.8	U	1.8	LOD	8.5	LOQ	mg/Kg	UJ	Surr
CARBAZOLE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
DIBENZOFURAN	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
DIETHYL PHTHALATE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
DIMETHYL PHTHALATE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
DI-N-BUTYL PHTHALATE	1.8	U	1.8	LOD	8.5	LOQ	mg/Kg	UJ	Surr
DI-N-OCTYL PHTHALATE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBENZENE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBUTADIENE	0.89	U	0.89	LOD	2.7	LOQ	mg/Kg	UJ	Surr
HEXACHLOROETHANE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
ISOPHORONE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
NITROBENZENE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
N-NITROSODIMETHYLAMINE	0.89	UY	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
N-Nitrosodi-n-propylamine	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr
N-NITROSODIPHENYLAMINE	0.89	U	0.89	LOD	8.5	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: H5-SS02-01 DUP **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial-ACID **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	3.5	JYZ	3.6	LOD	11	LOQ	mg/Kg	J	Rl, Fd

Sample ID: H5-SS02-01 DUP **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
1,2-DICHLOROBENZENE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
1,3-DICHLOROBENZENE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
1,4-DICHLOROBENZENE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
2,4-DINITROTOLUENE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
2,6-DINITROTOLUENE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
2-CHLORONAPHTHALENE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
2-NITROANILINE	0.18	U	0.18	LOD	3.4	LOQ	mg/Kg	UJ	Surr
3,3'-DICHLOROBENZIDINE	7.2	UQ	7.2	LOD	11	LOQ	mg/Kg	UJ	Lcs, Surr
3-NITROANILINE	0.18	U	0.18	LOD	3.4	LOQ	mg/Kg	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	0.89	U	0.89	LOD	2.1	LOQ	mg/Kg	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
4-NITROANILINE	0.89	U	0.89	LOD	3.4	LOQ	mg/Kg	UJ	Surr
BENZYL ALCOHOL	0.18	U	0.18	LOD	7.1	LOQ	mg/Kg	UJ	Surr
bis(2-chloroethoxy) methane	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.36	U	0.36	LOD	1.7	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.18	UYZ	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.36	U	0.36	LOD	1.7	LOQ	mg/Kg	UJ	Surr
Butyl benzyl phthalate	0.36	U	0.36	LOD	1.7	LOQ	mg/Kg	UJ	Surr
CARBAZOLE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
DIBENZOFURAN	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
DIETHYL PHTHALATE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
DIMETHYL PHTHALATE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
DI-N-BUTYL PHTHALATE	0.36	U	0.36	LOD	1.7	LOQ	mg/Kg	UJ	Surr
DI-N-OCTYL PHTHALATE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBENZENE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBUTADIENE	0.18	U	0.18	LOD	0.54	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: H5-SS02-01 DUP **Collected:** 6/13/2016 9:15:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXACHLOROETHANE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
ISOPHORONE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
NITROBENZENE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
N-NITROSODIMETHYLAMINE	0.18	UY	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
N-Nitrosodi-n-propylamine	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr
N-NITROSODIPHENYLAMINE	0.18	U	0.18	LOD	1.7	LOQ	mg/Kg	UJ	Surr

Sample ID: H5-SS02-02 **Collected:** 6/13/2016 9:20:00 AM **Analysis Type:** Initial-ACID **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	0.15	U	0.15	LOD	0.73	LOQ	mg/Kg	UJ	Surr
2,4,6-TRICHLOROPHENOL	0.15	U	0.15	LOD	0.73	LOQ	mg/Kg	UJ	Surr
2,4-DICHLOROPHENOL	0.38	U	0.38	LOD	0.73	LOQ	mg/Kg	UJ	Surr
2,4-Dimethyl phenol	0.38	U	0.38	LOD	0.73	LOQ	mg/Kg	UJ	Surr
2,4-DINITROPHENOL	0.76	U	0.76	LOD	3.8	LOQ	mg/Kg	UJ	Surr
2-CHLOROPHENOL	0.38	U	0.38	LOD	0.73	LOQ	mg/Kg	UJ	Surr
2-NITROPHENOL	0.38	U	0.38	LOD	0.73	LOQ	mg/Kg	UJ	Surr
4,6-DINITRO-2-METHYLPHENOL	0.38	U	0.38	LOD	1.5	LOQ	mg/Kg	UJ	Surr
4-CHLORO-3-METHYLPHENOL	0.15	U	0.15	LOD	0.73	LOQ	mg/Kg	UJ	Surr
4-NITROPHENOL	1.5	UY	1.5	LOD	3.8	LOQ	mg/Kg	UJ	Surr
BENZOIC ACID	1.5	UYZ	1.5	LOD	4.6	LOQ	mg/Kg	UJ	Surr
PENTACHLOROPHENOL	0.38	U	0.38	LOD	0.73	LOQ	mg/Kg	UJ	Surr
PHENOL	0.38	U	0.38	LOD	0.73	LOQ	mg/Kg	UJ	Surr

Sample ID: H5-SS02-02 **Collected:** 6/13/2016 9:20:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
1,2-DICHLOROBENZENE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
1,3-DICHLOROBENZENE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
1,4-DICHLOROBENZENE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
2,4-DINITROTOLUENE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **H5-SS02-02** ***Collected:*** **6/13/2016 9:20:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **3**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2,6-DINITROTOLUENE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
2-CHLORONAPHTHALENE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
2-NITROANILINE	0.076	U	0.076	LOD	1.5	LOQ	mg/Kg	UJ	Surr
3,3'-DICHLOROBENZIDINE	3.0	UQ	3.0	LOD	4.6	LOQ	mg/Kg	UJ	Lcs, Surr
3-NITROANILINE	0.076	U	0.076	LOD	1.5	LOQ	mg/Kg	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	0.38	U	0.38	LOD	0.91	LOQ	mg/Kg	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
4-NITROANILINE	0.38	U	0.38	LOD	1.5	LOQ	mg/Kg	UJ	Surr
BENZYL ALCOHOL	0.076	U	0.076	LOD	3.0	LOQ	mg/Kg	UJ	Surr
bis(2-chloroethoxy) methane	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.15	U	0.15	LOD	0.73	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.076	UYZ	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.15	U	0.15	LOD	0.73	LOQ	mg/Kg	UJ	Surr
Butyl benzyl phthalate	0.15	U	0.15	LOD	0.73	LOQ	mg/Kg	UJ	Surr
CARBAZOLE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
DIBENZOFURAN	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
DIETHYL PHTHALATE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
DIMETHYL PHTHALATE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
DI-N-BUTYL PHTHALATE	0.15	U	0.15	LOD	0.73	LOQ	mg/Kg	UJ	Surr
DI-N-OCTYL PHTHALATE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBENZENE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBUTADIENE	0.076	U	0.076	LOD	0.23	LOQ	mg/Kg	UJ	Surr
HEXACHLOROETHANE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
ISOPHORONE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
NITROBENZENE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
N-NITROSODIMETHYLAMINE	0.076	UY	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
N-Nitrosodi-n-propylamine	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr
N-NITROSODIPHENYLAMINE	0.076	U	0.076	LOD	0.73	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **WDS-SB08-05** ***Collected:*** **6/13/2016 1:20:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.87	UQ	0.87	LOD	1.3	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB09-06** ***Collected:*** **6/13/2016 1:05:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.76	UQ	0.76	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
CARBAZOLE	0.028	J	0.019	LOD	0.18	LOQ	mg/Kg	J	RI
DIBENZOFURAN	0.027	J	0.019	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB11-08** ***Collected:*** **6/13/2016 10:40:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.72	UQ	0.72	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB12-05** ***Collected:*** **6/13/2016 8:35:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.72	UQ	0.72	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB13-05** ***Collected:*** **6/13/2016 8:20:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.74	UQ	0.74	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
EtoA	Extraction to Analysis Estimation
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM **Preparation Method: 3550B**

Matrix: Soil

Sample ID	Type	Actual	Criteria	Units	Flag
WDS-SB08-05 (Dilution-1)	Extraction To Analysis	43.00	40.00	DAYS	J- (all detects) UJ (all non-detects)

Project Name and Number: - USACE Project:

Method Blank Outlier Report

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40326	7/5/2016 12:02:36 PM	POTASSIUM	8.6 mg/Kg	H5-SS01-01 H5-SS01-02 H5-SS02-01 H5-SS02-01 DUP H5-SS02-02 WDS-SB08-05 WDS-SB09-06 WDS-SB11-08 WDS-SB13-05

Surrogate Outlier Report

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H5-SS01-01 (Initial)	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	16.6 16.4	60.00-125.00 44.00-130.00	All Target Analytes	J- (all detects) UJ (all non-detects)
H5-SS02-01 DUP (Initial)	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	28.6 24.4	60.00-125.00 44.00-130.00	All Target Analytes	J-(all detects) UJ(all non-detects)
H5-SS02-01 (Initial)	DECACHLOROBIPHENYL	54	60.00-125.00	All Target Analytes	J-(all detects) UJ(all non-detects)
H5-SS03-01 (Initial)	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	20.6 18.5	60.00-125.00 44.00-130.00	All Target Analytes	J-(all detects) UJ(all non-detects)
H5-SS03-02 (Initial)	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	31.3 29.5	60.00-125.00 44.00-130.00	All Target Analytes	J-(all detects) UJ(all non-detects)
H5-SS04-02 (Initial)	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	45.4 42.5	60.00-125.00 44.00-130.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D SIM
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H5-SS01-01 (Initial)	Terphenyl-d14	12.1	58.00-133.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
H5-SS02-01 DUP (Initial)	2-FLUOROBIPHENYL	0	46.00-115.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB13-05 (Initial)	Terphenyl-d14	139	58.00-133.00	All Base/Neutral Target Analytes	J+(all detects)

Method: 8270D-MOD
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H5-SS01-01 (Initial)	2,4,6-TRIBROMOPHENOL 2-FLUOROBIPHENYL 2-FLUOROPHENOL Nitrobenzene-d5 PHENOL-D5 Terphenyl-d14	0 19 0 18.1 0 21.8	39.00-132.00 44.00-115.00 35.00-115.00 37.00-122.00 33.00-122.00 54.00-127.00	All Target Analytes	J-(all detects) UJ(all non-detects)
H5-SS02-01 DUP (Initial)	2-FLUOROBIPHENYL Terphenyl-d14	43.3 49.1	44.00-115.00 54.00-127.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
H5-SS02-01 (Initial)	2,4,6-TRIBROMOPHENOL 2-FLUOROBIPHENYL 2-FLUOROPHENOL Nitrobenzene-d5 PHENOL-D5	0 0 0 0 0	39.00-132.00 44.00-115.00 35.00-115.00 37.00-122.00 33.00-122.00	All Target Analytes	J-(all detects) UJ(all non-detects)
H5-SS02-02 (Initial)	2-FLUOROBIPHENYL 2-FLUOROPHENOL Nitrobenzene-d5 PHENOL-D5 Terphenyl-d14	34.6 32.8 36.1 0 36.6	44.00-115.00 35.00-115.00 37.00-122.00 33.00-122.00 54.00-127.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D SIM**

Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
WDS-SB08-05MS WDS-SB08-05MSD (WDS-SB08-05)	ACENAPHTHENE ACENAPHTHYLENE BENZ(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE DIBENZO(A,H)ANTHRACENE FLUORANTHENE FLUORENE PYRENE	168 245 859 800 1290 221 808 149 1420 189 1280	- 129 - - - - - - - - -	44.00-111.00 39.00-116.00 54.00-122.00 50.00-125.00 53.00-128.00 56.00-123.00 57.00-118.00 50.00-129.00 55.00-119.00 47.00-114.00 55.00-117.00	39.31 (25.00) 52.92 (25.00) 102.26 (25.00) 103.19 (25.00) 116.61 (25.00) 35.55 (25.00) 104.05 (25.00) 55.37 (25.00) 105.74 (25.00) 51.34 (25.00) 104.48 (25.00)	ACENAPHTHENE ACENAPHTHYLENE BENZ(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE DIBENZO(A,H)ANTHRACENE FLUORANTHENE FLUORENE PYRENE	J (all detects)
WDS-SB08-05MS WDS-SB08-05MSD (WDS-SB08-05)	ANTHRACENE BENZO(G,H,I)PERYLENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE	117 233 246 846	-74.8 14.2 27.8 33.7	50.00-114.00 49.00-127.00 49.00-130.00 49.00-113.00	70.75 (25.00) 91.22 (25.00) 87.55 (25.00) 118.86 (25.00)	ANTHRACENE BENZO(G,H,I)PERYLENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE	J(all detects) UJ(all non-detects)
WDS-SB08-05MS WDS-SB08-05MSD (WDS-SB08-05)	1-METHYLNAPHTHALENE	142	131	43.00-111.00	-	1-METHYLNAPHTHALENE	J+(all detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCS-40223 (H5-SS01-01 H5-SS01-02 H5-SS02-01 H5-SS02-01 DUP H5-SS02-02 WDS-SB08-05 WDS-SB09-06 WDS-SB11-08 WDS-SB12-05 WDS-SB13-05)	3,3'-DICHLOROBENZIDINE	0	-	22.00-121.00	-	3,3'-DICHLOROBENZIDINE	J- (all detects) UJ (all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H5-SS02-01 (Dry)	H5-SS02-01 DUP (Dry)			
ANTIMONY	1.1	23	182	50.00	J (all detects) UJ (all non-detects)
BERYLLIUM	0.43	20	192	50.00	
CADMIUM	0.53	20	190	50.00	
CHROMIUM	5.0	26	135	50.00	
COBALT	0.90	23	185	50.00	
COPPER	18	41	78	50.00	
MAGNESIUM	230	460	67	50.00	
MANGANESE	20	40	67	50.00	
NICKEL	4.3	28	147	50.00	
POTASSIUM	260	490	61	50.00	
SELENIUM	4.9 U	4.8	200	50.00	
SILVER	0.23	9.5	191	50.00	
SODIUM	220	500	78	50.00	
VANADIUM	9.5	26	93	50.00	
ZINC	50	150	100	50.00	

Method: 8270D SIM
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H5-SS02-01	H5-SS02-01 DUP			
1-METHYLNAPHTHALENE	0.0043	0.036 U	200	50.00	J(all detects) UJ(all non-detects)
2-METHYLNAPHTHALENE	0.0041	0.036 U	200	50.00	
ACENAPHTHENE	0.0030	0.036 U	200	50.00	
ACENAPHTHYLENE	0.0070	0.036 U	200	50.00	
ANTHRACENE	0.0098	0.036 U	200	50.00	
BENZO(G,H,I)PERYLENE	0.018	0.036 U	200	50.00	
BENZO(K)FLUORANTHENE	0.019	0.036 UY	200	50.00	
DIBENZO(A,H)ANTHRACENE	0.0028	0.036 U	200	50.00	
FLUORENE	0.0052	0.036 U	200	50.00	
INDENO(1,2,3-CD)PYRENE	0.015	0.036 U	200	50.00	
PHENANTHRENE	0.0066	0.059	160	50.00	

Method: 8270D-MOD
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H5-SS02-01	H5-SS02-01 DUP			
BENZOIC ACID	53 UYZ	3.5	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H5-SS01-01	ANTIMONY	J	1.5	2.1	LOQ	mg/Kg	
	ARSENIC	J	2.6	4.1	LOQ	mg/Kg	
	COBALT	J	1.4	2.1	LOQ	mg/Kg	J (all detects)
	NICKEL	J	4.4	10	LOQ	mg/Kg	
	SILVER	J	0.58	2.1	LOQ	mg/Kg	
H5-SS01-02	CADMIUM	J	0.074	0.23	LOQ	mg/Kg	
	COBALT	J	0.90	0.91	LOQ	mg/Kg	J (all detects)
	NICKEL	J	3.9	4.5	LOQ	mg/Kg	
H5-SS02-01	ANTIMONY	J	1.1	2.5	LOQ	mg/Kg	
	ARSENIC	J	2.7	4.9	LOQ	mg/Kg	
	BERYLLIUM	J	0.43	0.62	LOQ	mg/Kg	
	CADMIUM	J	0.53	0.62	LOQ	mg/Kg	J (all detects)
	COBALT	J	0.90	2.5	LOQ	mg/Kg	
	NICKEL	J	4.3	12	LOQ	mg/Kg	
	SILVER	J	0.23	2.5	LOQ	mg/Kg	
H5-SS02-01 DUP	ARSENIC	J	4.2	4.7	LOQ	mg/Kg	J (all detects)
H5-SS02-02	ARSENIC	J	0.77	2.0	LOQ	mg/Kg	
	LEAD	J	4.3	5.1	LOQ	mg/Kg	J (all detects)
	NICKEL	J	3.0	5.1	LOQ	mg/Kg	
	SILVER	J	0.67	1.0	LOQ	mg/Kg	
WDS-SB08-05	BERYLLIUM	J	0.080	0.22	LOQ	mg/Kg	
	CADMIUM	J	0.071	0.22	LOQ	mg/Kg	J (all detects)
	NICKEL	J	4.0	4.3	LOQ	mg/Kg	
WDS-SB09-06	ARSENIC	J	0.69	1.5	LOQ	mg/Kg	
	BERYLLIUM	J	0.15	0.18	LOQ	mg/Kg	J (all detects)
	LEAD	J	2.9	3.7	LOQ	mg/Kg	
WDS-SB11-08	BERYLLIUM	J	0.071	0.18	LOQ	mg/Kg	J (all detects)
WDS-SB12-05	CADMIUM	J	0.033	0.18	LOQ	mg/Kg	J (all detects)
	LEAD	J	2.8	3.6	LOQ	mg/Kg	
WDS-SB13-05	ARSENIC	J	1.4	1.5	LOQ	mg/Kg	
	BERYLLIUM	J	0.15	0.18	LOQ	mg/Kg	J (all detects)
	CADMIUM	J	0.049	0.18	LOQ	mg/Kg	

Method: 6010C-STAR

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H5-SS04-01	LEAD	J	7.7	21	LOQ	mg/Kg	J (all detects)
H5-SS04-02	LEAD	J	5.0	7.5	LOQ	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606512 **Laboratory: RTILABS**

EDD Filename: EDD_1606512_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H5-SS01-02	THALLIUM	J	0.078	0.18	LOQ	mg/Kg	J (all detects)
H5-SS02-02	THALLIUM	J	0.068	0.21	LOQ	mg/Kg	J (all detects)
WDS-SB08-05	THALLIUM	JG	0.10	0.17	LOQ	mg/Kg	J (all detects)
WDS-SB09-06	THALLIUM	J	0.091	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB11-08	THALLIUM	JG	0.10	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB12-05	THALLIUM	J	0.076	0.14	LOQ	mg/Kg	J (all detects)
WDS-SB13-05	THALLIUM	J	0.073	0.15	LOQ	mg/Kg	J (all detects)

Method: 8270D-MOD

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H5-SS02-01 DUP	BENZOIC ACID	JYZ	3.5	11	LOQ	mg/Kg	J (all detects)
WDS-SB09-06	CARBAZOLE DIBENZOFURAN	J J	0.028 0.027	0.18 0.18	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606524		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	17 soil samples for a project-specific list of PAHs, SVOCs STAR, PCBs, energetics, metals		
Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 30th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606524. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR and/or during manual data review of ADR output:

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **H14-SB01-07** ***Collected:*** **6/13/2016 3:10:00 PM** ***Analysis Type:*** **Dilution-1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	210		1.8	LOD	7.1	LOQ	mg/Kg	J	Fd

Sample ID: **H14-SB01-07** ***Collected:*** **6/13/2016 3:10:00 PM** ***Analysis Type:*** **Dilution-2** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	8200		140	LOD	350	LOQ	mg/Kg	J	Fd

Sample ID: **H14-SB01-07** ***Collected:*** **6/13/2016 3:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	35		3.5	LOD	7.1	LOQ	mg/Kg	J	Fd
BERYLLIUM	0.092	J	0.035	LOD	0.18	LOQ	mg/Kg	J	Rl
CADMIUM	0.042	J	0.035	LOD	0.18	LOQ	mg/Kg	J	Rl, Fd
CALCIUM	320		7.1	LOD	35	LOQ	mg/Kg	J	Fd
LEAD	2.5	J	0.71	LOD	3.5	LOQ	mg/Kg	J	Rl
MAGNESIUM	1600		3.5	LOD	35	LOQ	mg/Kg	J	Fd
NICKEL	5.4		0.71	LOD	3.5	LOQ	mg/Kg	J	Fd
POTASSIUM	1200		7.1	LOD	14	LOQ	mg/Kg	J	Fd
VANADIUM	16		0.71	LOD	1.8	LOQ	mg/Kg	J	Fd
ZINC	13		0.35	LOD	3.5	LOQ	mg/Kg	J	Fd

Sample ID: **H14-SB01-07 DUP** ***Collected:*** **6/13/2016 3:10:00 PM** ***Analysis Type:*** **Dilution-1** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	3000		140	LOD	340	LOQ	mg/Kg	J	Fd

Sample ID: **H14-SB01-07 DUP** ***Collected:*** **6/13/2016 3:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	20		3.4	LOD	6.8	LOQ	mg/Kg	J	Fd
BERYLLIUM	0.071	J	0.034	LOD	0.17	LOQ	mg/Kg	J	Rl
CADMIUM	0.034	U	0.034	LOD	0.17	LOQ	mg/Kg	UJ	Fd
CALCIUM	190		6.8	LOD	34	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **H14-SB01-07 DUP** ***Collected:*** **6/13/2016 3:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	1.5	J	0.68	LOD	3.4	LOQ	mg/Kg	J	Rl
MAGNESIUM	730		3.4	LOD	34	LOQ	mg/Kg	J	Fd
MANGANESE	83		0.17	LOD	0.68	LOQ	mg/Kg	J	Fd
NICKEL	2.2	J	0.68	LOD	3.4	LOQ	mg/Kg	J	Rl, Fd
POTASSIUM	520		6.8	LOD	14	LOQ	mg/Kg	J	Fd
VANADIUM	7.7		0.68	LOD	1.7	LOQ	mg/Kg	J	Fd
ZINC	6.3		0.34	LOD	3.4	LOQ	mg/Kg	J	Fd

Sample ID: **H14-SB02-25** ***Collected:*** **6/13/2016 3:55:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.11	J	0.035	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	2.4	J	0.70	LOD	3.5	LOQ	mg/Kg	J	Rl

Sample ID: **H14-SB03-06** ***Collected:*** **6/13/2016 3:35:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.043	J	0.035	LOD	0.17	LOQ	mg/Kg	J	Rl
LEAD	2.3	J	0.70	LOD	3.5	LOQ	mg/Kg	J	Rl

Sample ID: **H14-SS01-01** ***Collected:*** **6/13/2016 2:50:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.065	J	0.036	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	3.3	J	0.72	LOD	3.6	LOQ	mg/Kg	J	Rl

Sample ID: **H14-SS02-01** ***Collected:*** **6/13/2016 2:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.052	J	0.035	LOD	0.17	LOQ	mg/Kg	J	Rl
CADMIUM	0.052	J	0.035	LOD	0.17	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: H14-SS03-01 **Collected:** 6/13/2016 3:25:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.10	J	0.042	LOD	0.21	LOQ	mg/Kg	J	Rl
CADMIUM	0.038	J	0.042	LOD	0.21	LOQ	mg/Kg	J	Rl
LEAD	2.1	J	0.83	LOD	4.2	LOQ	mg/Kg	J	Rl

Sample ID: H16-SB01-05 **Collected:** 6/13/2016 10:55:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.3	J	0.80	LOD	1.6	LOQ	mg/Kg	J	Rl, Fd
BARIUM	23		4.0	LOD	8.0	LOQ	mg/Kg	J	Fd
BERYLLIUM	0.12	J	0.040	LOD	0.20	LOQ	mg/Kg	J	Rl, Fd
CADMIUM	0.066	J	0.040	LOD	0.20	LOQ	mg/Kg	J	Rl, Fd
CALCIUM	830		8.0	LOD	40	LOQ	mg/Kg	J	Fd
COPPER	16		0.80	LOD	4.0	LOQ	mg/Kg	J	Fd
LEAD	5.0		0.80	LOD	4.0	LOQ	mg/Kg	J	Fd
NICKEL	7.0		0.80	LOD	4.0	LOQ	mg/Kg	J	Fd
SODIUM	110		4.0	LOD	40	LOQ	mg/Kg	J	Fd
ZINC	18		0.40	LOD	4.0	LOQ	mg/Kg	J	Fd

Sample ID: H16-SB01-05 DUP **Collected:** 6/13/2016 10:55:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.9	J	2.3	LOD	4.7	LOQ	mg/Kg	J	Rl, Fd
BARIUM	89		12	LOD	23	LOQ	mg/Kg	J	Fd
BERYLLIUM	0.57	J	0.12	LOD	0.58	LOQ	mg/Kg	J	Rl, Fd
CADMIUM	0.59		0.12	LOD	0.58	LOQ	mg/Kg	J	Fd
CALCIUM	4200		23	LOD	120	LOQ	mg/Kg	J	Fd
COPPER	30		2.3	LOD	12	LOQ	mg/Kg	J	Fd
LEAD	22		2.3	LOD	12	LOQ	mg/Kg	J	Fd
NICKEL	12	J	2.3	LOD	12	LOQ	mg/Kg	J	Fd
SODIUM	460		12	LOD	120	LOQ	mg/Kg	J	Fd
ZINC	86		1.2	LOD	12	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: H16-SS01-01 **Collected:** 6/13/2016 10:50:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.13	J	0.044	LOD	0.22	LOQ	mg/Kg	J	Rl

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H14-SB01-07 **Collected:** 6/13/2016 3:10:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.14	J	0.036	LOD	0.14	LOQ	mg/Kg	J	Fd

Sample ID: H14-SB01-07 DUP **Collected:** 6/13/2016 3:10:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.077	J	0.032	LOD	0.13	LOQ	mg/Kg	J	Rl, Fd

Sample ID: H14-SB02-25 **Collected:** 6/13/2016 3:55:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.13	J	0.036	LOD	0.14	LOQ	mg/Kg	J	Rl

Sample ID: H14-SS02-01 **Collected:** 6/13/2016 2:10:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.13	J	0.035	LOD	0.14	LOQ	mg/Kg	J	Rl

Sample ID: H16-SB01-05 **Collected:** 6/13/2016 10:55:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.075	J	0.040	LOD	0.16	LOQ	mg/Kg	J	Rl, Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H16-SB01-05 DUP **Collected:** 6/13/2016 10:55:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.12	UG	0.12	LOD	0.49	LOQ	mg/Kg	UJ	Fd

Sample ID: H16-SS01-01 **Collected:** 6/13/2016 10:50:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.13	JG	0.044	LOD	0.18	LOQ	mg/Kg	J	Rl

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: H14-SB01-07 **Collected:** 6/13/2016 3:10:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.00079		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
BENZO(A)PYRENE	0.00073		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
BENZO(B)FLUORANTHENE	0.0016		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
CHRYSENE	0.00090		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
FLUORANTHENE	0.0018		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
PHENANTHRENE	0.0011		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
PYRENE	0.0015		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd

Sample ID: H14-SB01-07 DUP **Collected:** 6/13/2016 3:10:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.00068	U	0.00068	LOD	0.00068	LOQ	mg/Kg	UJ	Fd
BENZO(A)PYRENE	0.00068	U	0.00068	LOD	0.00068	LOQ	mg/Kg	UJ	Fd
BENZO(B)FLUORANTHENE	0.00068	U	0.00068	LOD	0.00068	LOQ	mg/Kg	UJ	Fd
CHRYSENE	0.00068	U	0.00068	LOD	0.00068	LOQ	mg/Kg	UJ	Fd
FLUORANTHENE	0.00068	U	0.00068	LOD	0.00068	LOQ	mg/Kg	UJ	Fd
PHENANTHRENE	0.00068	U	0.00068	LOD	0.00068	LOQ	mg/Kg	UJ	Fd
PYRENE	0.00068	U	0.00068	LOD	0.00068	LOQ	mg/Kg	UJ	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **Soil**

Sample ID: **H14-SB03-06** ***Collected:*** **6/13/2016 3:35:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.0013		0.00072	LOD	0.00072	LOQ	mg/Kg	J+	Surr
BENZO(A)PYRENE	0.00094		0.00072	LOD	0.00072	LOQ	mg/Kg	J+	Surr
BENZO(B)FLUORANTHENE	0.0020		0.00072	LOD	0.00072	LOQ	mg/Kg	J+	Surr
CHRYSENE	0.0012		0.00072	LOD	0.00072	LOQ	mg/Kg	J+	Surr
FLUORANTHENE	0.0033		0.00072	LOD	0.00072	LOQ	mg/Kg	J+	Surr
PHENANTHRENE	0.0026		0.00072	LOD	0.00072	LOQ	mg/Kg	J+	Surr
PYRENE	0.0025		0.00072	LOD	0.00072	LOQ	mg/Kg	J+	Surr

Sample ID: **H16-SB01-05** ***Collected:*** **6/13/2016 10:55:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.0011		0.00083	LOD	0.00083	LOQ	mg/Kg	J	Fd
ANTHRACENE	0.0015		0.00083	LOD	0.00083	LOQ	mg/Kg	J	Fd
NAPHTHALENE	0.0013		0.00083	LOD	0.00083	LOQ	mg/Kg	J	Fd

Sample ID: **H16-SB01-05 DUP** ***Collected:*** **6/13/2016 10:55:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.0027		0.0024	LOD	0.0024	LOQ	mg/Kg	J	Fd
ANTHRACENE	0.0024	U	0.0024	LOD	0.0024	LOQ	mg/Kg	UJ	Fd
NAPHTHALENE	0.0034		0.0024	LOD	0.0024	LOQ	mg/Kg	J	Fd

Sample ID: **H16-SS01-01** ***Collected:*** **6/13/2016 10:50:00 AM** ***Analysis Type:*** **Dilution-2-BASE/ NEUTRAL** ***Dilution:*** **2000**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	12		1.8	LOD	1.8	LOQ	mg/Kg	J-	EtoA
FLUORANTHENE	18		1.8	LOD	1.8	LOQ	mg/Kg	J-	EtoA
PYRENE	15		1.8	LOD	1.8	LOQ	mg/Kg	J-	EtoA

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: H16-SB01-05 **Collected:** 6/13/2016 10:55:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.25	J	0.41	LOD	1.2	LOQ	mg/Kg	J	Rl, Lcs, Fd

Sample ID: H16-SB01-05 DUP **Collected:** 6/13/2016 10:55:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.60	J	1.2	LOD	3.6	LOQ	mg/Kg	J	Rl, Lcs, Fd

Sample ID: H16-SS01-01 **Collected:** 6/13/2016 10:50:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Methylphenol (o-Cresol)	1.1	U	1.1	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
3/4-Methylphenol [m/p-Cresol]	1.1	U	1.1	LOD	4.2	LOQ	mg/Kg	UJ	EtoA
4-Chloroaniline [p-Chloroaniline]	1.1	U	1.1	LOD	2.1	LOQ	mg/Kg	UJ	EtoA

Sample ID: H16-SS01-01 **Collected:** 6/13/2016 10:50:00 AM **Analysis Type:** Initial-ACID **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	0.44	U	0.44	LOD	2.1	LOQ	mg/Kg	UJ	Surr, EtoA
2,4,6-TRICHLOROPHENOL	0.44	U	0.44	LOD	2.1	LOQ	mg/Kg	UJ	Surr, EtoA
2,4-DICHLOROPHENOL	1.1	U	1.1	LOD	2.1	LOQ	mg/Kg	UJ	Surr, EtoA
2,4-Dimethyl phenol	1.1	U	1.1	LOD	2.1	LOQ	mg/Kg	UJ	Surr, EtoA
2,4-DINITROPHENOL	2.2	U	2.2	LOD	11	LOQ	mg/Kg	UJ	Surr, EtoA
2-CHLOROPHENOL	1.1	U	1.1	LOD	2.1	LOQ	mg/Kg	UJ	Surr, EtoA
2-NITROPHENOL	1.1	U	1.1	LOD	2.1	LOQ	mg/Kg	UJ	Surr, EtoA
4,6-DINITRO-2-METHYLPHENOL	1.1	U	1.1	LOD	4.2	LOQ	mg/Kg	UJ	Surr, EtoA
4-CHLORO-3-METHYLPHENOL	0.44	U	0.44	LOD	2.1	LOQ	mg/Kg	UJ	Surr, EtoA
4-NITROPHENOL	4.4	U	4.4	LOD	11	LOQ	mg/Kg	UJ	Surr, EtoA
BENZOIC ACID	4.4	UY	4.4	LOD	13	LOQ	mg/Kg	UJ	Lcs, Surr, EtoA
PENTACHLOROPHENOL	1.1	UY	1.1	LOD	2.1	LOQ	mg/Kg	UJ	Surr, EtoA
PHENOL	1.1	U	1.1	LOD	2.1	LOQ	mg/Kg	UJ	Surr, EtoA

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **H16-SS01-01** ***Collected:*** **6/13/2016 10:50:00 AM** ***Analysis Type:*** **Initial-BASE/NEUTRAL** ***Dilution:*** **10**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRICHLOROBENZENE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
1,2-DICHLOROBENZENE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
1,3-DICHLOROBENZENE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
1,4-DICHLOROBENZENE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
2,4-DINITROTOLUENE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
2,6-DINITROTOLUENE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
2-CHLORONAPHTHALENE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
2-NITROANILINE	0.22	U	0.22	LOD	4.2	LOQ	mg/Kg	UJ	EtoA
3,3'-DICHLOROBENZIDINE	8.8	U	8.8	LOD	13	LOQ	mg/Kg	UJ	EtoA
3-NITROANILINE	0.22	U	0.22	LOD	4.2	LOQ	mg/Kg	UJ	EtoA
4-BROMOPHENYL PHENYL ETHER	1.1	U	1.1	LOD	2.7	LOQ	mg/Kg	UJ	EtoA
4-CHLOROPHENYL PHENYL ETHER	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
4-NITROANILINE	1.1	U	1.1	LOD	4.2	LOQ	mg/Kg	UJ	EtoA
BENZYL ALCOHOL	0.22	U	0.22	LOD	8.7	LOQ	mg/Kg	UJ	EtoA
bis(2-chloroethoxy) methane	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
BIS(2-CHLOROETHYL) ETHER	0.44	U	0.44	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
BIS(2-CHLOROISOPROPYL)ETHER	0.22	UYZ	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
BIS(2-ETHYLHEXYL) PHTHALATE	0.44	U	0.44	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
Butyl benzyl phthalate	0.44	U	0.44	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
CARBAZOLE	0.89	J	0.22	LOD	2.1	LOQ	mg/Kg	J	RI, EtoA
DIBENZOFURAN	0.16	J	0.22	LOD	2.1	LOQ	mg/Kg	J	RI, EtoA
DIETHYL PHTHALATE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
DIMETHYL PHTHALATE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
DI-N-BUTYL PHTHALATE	0.44	U	0.44	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
DI-N-OCTYL PHTHALATE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
HEXACHLOROBENZENE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
HEXACHLOROBUTADIENE	0.22	U	0.22	LOD	0.66	LOQ	mg/Kg	UJ	EtoA
HEXACHLOROETHANE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
ISOPHORONE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
NITROBENZENE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
N-NITROSODIMETHYLAMINE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA
N-Nitrosodi-n-propylamine	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **H16-SS01-01** ***Collected:*** **6/13/2016 10:50:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIPHENYLAMINE	0.22	U	0.22	LOD	2.1	LOQ	mg/Kg	UJ	EtoA

Sample ID: **MP-SB02-11** ***Collected:*** **6/13/2016 11:30:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.71	UQ	0.71	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: **MP-SB03-09** ***Collected:*** **6/13/2016 11:30:00 AM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.36	U	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: **MP-SS02-01** ***Collected:*** **6/13/2016 9:25:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.71	UQ	0.71	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
CARBAZOLE	0.058	J	0.018	LOD	0.17	LOQ	mg/Kg	J	Rl, Fd
DIBENZOFURAN	0.030	J	0.018	LOD	0.17	LOQ	mg/Kg	J	Rl, Fd

Sample ID: **MP-SS02-01 DUP** ***Collected:*** **6/13/2016 9:25:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.70	UQ	0.70	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
CARBAZOLE	0.018	U	0.018	LOD	0.17	LOQ	mg/Kg	UJ	Fd
DIBENZOFURAN	0.018	U	0.018	LOD	0.17	LOQ	mg/Kg	UJ	Fd

Sample ID: **MP-SS03-01** ***Collected:*** **6/13/2016 11:15:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.72	UQ	0.72	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-SIM-STAR** ***Matrix:*** **Soil**

Sample ID: **MP-SB02-11** ***Collected:*** **6/13/2016 11:30:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ACENAPHTHENE	0.00072		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
ACENAPHTHYLENE	0.00071	U	0.00071	LOD	0.00071	LOQ	mg/Kg	UJ	Surr
ANTHRACENE	0.0023		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
BENZ(A)ANTHRACENE	0.0072		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
BENZO(A)PYRENE	0.0054		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
BENZO(B)FLUORANTHENE	0.0089		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
BENZO(G,H,I)PERYLENE	0.00071	U	0.00071	LOD	0.00071	LOQ	mg/Kg	UJ	Surr
BENZO(K)FLUORANTHENE	0.0042		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
CHRYSENE	0.0053		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
DIBENZO(A,H)ANTHRACENE	0.00071	U	0.00071	LOD	0.00071	LOQ	mg/Kg	UJ	Surr
FLUORANTHENE	0.014		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
FLUORENE	0.00077		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
INDENO(1,2,3-CD)PYRENE	0.0017		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
PHENANTHRENE	0.0082		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr
PYRENE	0.013		0.00071	LOD	0.00071	LOQ	mg/Kg	J-	Surr

Sample ID: **MP-SB03-09** ***Collected:*** **6/13/2016 11:30:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ACENAPHTHENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
ACENAPHTHYLENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
ANTHRACENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
BENZ(A)ANTHRACENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
BENZO(A)PYRENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
BENZO(B)FLUORANTHENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
BENZO(G,H,I)PERYLENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
BENZO(K)FLUORANTHENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
CHRYSENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
DIBENZO(A,H)ANTHRACENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
FLUORANTHENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
FLUORENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
INDENO(1,2,3-CD)PYRENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-SIM-STAR **Matrix:** Soil

Sample ID: MP-SB03-09 **Collected:** 6/13/2016 11:30:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA
PYRENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	EtoA

Sample ID: MP-SS02-01 **Collected:** 6/13/2016 9:25:00 AM **Analysis Type:** Dilution-1-BASE/ NEUTRAL **Dilution:** 40

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.055		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
ANTHRACENE	0.16		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
BENZ(A)ANTHRACENE	0.32		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
BENZO(A)PYRENE	0.24		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
BENZO(B)FLUORANTHENE	0.34		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.093		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
BENZO(K)FLUORANTHENE	0.14		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
CHRYSENE	0.26		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
FLUORANTHENE	0.76		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
FLUORENE	0.062		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.12		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
PHENANTHRENE	0.51		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd
PYRENE	0.57		0.028	LOD	0.028	LOQ	mg/Kg	J	Fd

Sample ID: MP-SS02-01 **Collected:** 6/13/2016 9:25:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.0029		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd

Sample ID: MP-SS02-01 DUP **Collected:** 6/13/2016 9:25:00 AM **Analysis Type:** Dilution-1-BASE/ NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.046		0.0021	LOD	0.0021	LOQ	mg/Kg	J	Fd
BENZO(A)PYRENE	0.032		0.0021	LOD	0.0021	LOQ	mg/Kg	J	Fd
BENZO(B)FLUORANTHENE	0.054		0.0021	LOD	0.0021	LOQ	mg/Kg	J	Fd
CHRYSENE	0.033		0.0021	LOD	0.0021	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-SIM-STAR **Matrix:** Soil

Sample ID: MP-SS02-01 DUP **Collected:** 6/13/2016 9:25:00 AM **Analysis Type:** Dilution-1-BASE/ NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	0.099		0.0021	LOD	0.0021	LOQ	mg/Kg	J	Fd
PHENANTHRENE	0.058		0.0021	LOD	0.0021	LOQ	mg/Kg	J	Fd
PYRENE	0.074		0.0021	LOD	0.0021	LOQ	mg/Kg	J	Fd

Sample ID: MP-SS02-01 DUP **Collected:** 6/13/2016 9:25:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.0071		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
ACENAPHTHYLENE	0.00071	U	0.00071	LOD	0.00071	LOQ	mg/Kg	UJ	Fd
ANTHRACENE	0.018		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.022		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
BENZO(K)FLUORANTHENE	0.021		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
FLUORENE	0.0072		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.022		0.00071	LOD	0.00071	LOQ	mg/Kg	J	Fd

Sample ID: MP-SS03-01 **Collected:** 6/13/2016 11:15:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.0037		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA
ACENAPHTHYLENE	0.0022	U	0.0022	LOD	0.0022	LOQ	mg/Kg	UJ	EtoA
ANTHRACENE	0.0055		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA
BENZ(A)ANTHRACENE	0.025		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA
BENZO(A)PYRENE	0.020		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA
BENZO(B)FLUORANTHENE	0.026		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA
BENZO(G,H,I)PERYLENE	0.0022		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA
BENZO(K)FLUORANTHENE	0.014		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA
CHRYSENE	0.021		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA
DIBENZO(A,H)ANTHRACENE	0.0022	U	0.0022	LOD	0.0022	LOQ	mg/Kg	UJ	EtoA
FLUORANTHENE	0.055		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA
FLUORENE	0.0033		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA
INDENO(1,2,3-CD)PYRENE	0.0022	U	0.0022	LOD	0.0022	LOQ	mg/Kg	UJ	EtoA
PHENANTHRENE	0.033		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-SIM-STAR** ***Matrix:*** **Soil**

Sample ID: **MP-SS03-01** ***Collected:*** **6/13/2016 11:15:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **3**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
PYRENE	0.044		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	EtoA

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
EtoA	Extraction to Analysis Estimation
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Upper Estimation
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM **Preparation Method: 3550B**

Matrix: Soil

Sample ID	Type	Actual	Criteria	Units	Flag
H16-SS01-01 (Dilution-2)	Extraction To Analysis	41.00	40.00	DAYS	J- (all detects) UJ (all non-detects)

Method: 8270D-MOD **Preparation Method: 3550B**

Matrix: Soil

Sample ID	Type	Actual	Criteria	Units	Flag
H16-SS01-01 (Initial)	Extraction To Analysis	42.00	40.00	DAYS	J-(all detects) UJ(all non-detects)

Method: 8270D-SIM-STAR **Preparation Method: 3550B**

Matrix: Soil

Sample ID	Type	Actual	Criteria	Units	Flag
MP-SB03-09 (Initial) MP-SS03-01 (Initial)	Extraction To Analysis	41.00 41.00	40.00 40.00	DAYS DAYS	J-(all detects) UJ(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40326	7/5/2016 12:02:36 PM	POTASSIUM	8.6 mg/Kg	H14-SS01-01 H16-SB01-05 H16-SB01-05 DUP H16-SS01-01

Surrogate Outlier Report

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H14-SB03-06 (Initial)	Nitrobenzene-d5	127	44.00-125.00	All Base/Neutral Target Analytes	J+ (all detects)

Method: 8270D-MOD
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H16-SS01-01 (Initial)	2-FLUOROPHENOL PHENOL-D5	0 0	35.00-115.00 33.00-122.00	All Acid Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D-SIM-STAR
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
MP-SB02-11 (Initial)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	34.3 35.8 45.6	46.00-115.00 44.00-125.00 58.00-133.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method: **8330B**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
EFO-SS01-01MS (EFO-SS01-01)	2,6-DINITROTOLUENE	121	-	79.00-117.00	-	2,6-DINITROTOLUENE	J+ (all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCS-40223 (MP-SB02-11 MP-SS02-01 MP-SS02-01 DUP MP-SS03-01)	3,3'-DICHLOROBENZIDINE	0	-	22.00-121.00	-	3,3'-DICHLOROBENZIDINE	J- (all detects) UJ (all non-detects)
LCS-40226 (H16-SB01-05 H16-SB01-05 DUP H16-SS01-01 MP-SB03-09)	BENZOIC ACID	19.7	-	40.00-117.00	-	BENZOIC ACID	J-(all detects) UJ(all non-detects)

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H14-SB01-07 (Dry)	H14-SB01-07 DUP (Dry)			
ALUMINUM	8200	3000	93	50.00	
BARIUM	35	20	55	50.00	
CADMIUM	0.042	0.17 U	200	50.00	
CALCIUM	320	190	51	50.00	
MAGNESIUM	1600	730	75	50.00	J (all detects)
MANGANESE	210	83	87	50.00	UJ (all non-detects)
NICKEL	5.4	2.2	84	50.00	
POTASSIUM	1200	520	79	50.00	
VANADIUM	16	7.7	70	50.00	
ZINC	13	6.3	69	50.00	

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H16-SB01-05 (Dry)	H16-SB01-05 DUP (Dry)			
ARSENIC	1.3	2.9	76	50.00	
BARIUM	23	89	118	50.00	
BERYLLIUM	0.12	0.57	130	50.00	
CADMIUM	0.066	0.59	160	50.00	
CALCIUM	830	4200	134	50.00	J(all detects)
COPPER	16	30	61	50.00	UJ(all non-detects)
LEAD	5.0	22	126	50.00	
NICKEL	7.0	12	53	50.00	
SODIUM	110	460	123	50.00	
ZINC	18	86	131	50.00	

Method: 6020A-TL
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H14-SB01-07 (Dry)	H14-SB01-07 DUP (Dry)			
THALLIUM	0.14	0.077	58	50.00	J(all detects) UJ(all non-detects)

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H16-SB01-05 (Dry)	H16-SB01-05 DUP (Dry)			
THALLIUM	0.075	0.49 UG	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270D SIM
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H14-SB01-07	H14-SB01-07 DUP			
BENZ(A)ANTHRACENE	0.00079	0.00068 U	200	50.00	
BENZO(A)PYRENE	0.00073	0.00068 U	200	50.00	
BENZO(B)FLUORANTHENE	0.0016	0.00068 U	200	50.00	
CHRYSENE	0.00090	0.00068 U	200	50.00	J(all detects)
FLUORANTHENE	0.0018	0.00068 U	200	50.00	UJ(all non-detects)
PHENANTHRENE	0.0011	0.00068 U	200	50.00	
PYRENE	0.0015	0.00068 U	200	50.00	

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H16-SB01-05	H16-SB01-05 DUP			
2-METHYLNAPHTHALENE	0.0011	0.0027	84	50.00	J(all detects) UJ(all non-detects)
ANTHRACENE	0.0015	0.0024 U	200	50.00	
NAPHTHALENE	0.0013	0.0034	89	50.00	

Method: 8270D-MOD
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	MP-SS02-01	MP-SS02-01 DUP			
CARBAZOLE	0.058	0.17 U	200	50.00	J(all detects) UJ(all non-detects)
DIBENZOFURAN	0.030	0.17 U	200	50.00	

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H16-SB01-05	H16-SB01-05 DUP			
BENZOIC ACID	0.25	0.60	82	50.00	J(all detects) UJ(all non-detects)

Method: 8270D-SIM-STAR
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	MP-SS02-01	MP-SS02-01 DUP			
ACENAPHTHENE	0.055	0.0071	154	50.00	
ACENAPHTHYLENE	0.0029	0.00071 U	200	50.00	
ANTHRACENE	0.16	0.018	160	50.00	
BENZ(A)ANTHRACENE	0.32	0.046	150	50.00	
BENZO(A)PYRENE	0.24	0.032	153	50.00	
BENZO(B)FLUORANTHENE	0.34	0.054	145	50.00	
BENZO(G,H,I)PERYLENE	0.093	0.022	123	50.00	J(all detects) UJ(all non-detects)
BENZO(K)FLUORANTHENE	0.14	0.021	148	50.00	
CHRYSENE	0.26	0.033	155	50.00	
FLUORANTHENE	0.76	0.099	154	50.00	
FLUORENE	0.062	0.0072	158	50.00	
INDENO(1,2,3-CD)PYRENE	0.12	0.022	138	50.00	
PHENANTHRENE	0.51	0.058	159	50.00	
PYRENE	0.57	0.074	154	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H14-SB01-07	BERYLLIUM CADMIUM LEAD	J J J	0.092 0.042 2.5	0.18 0.18 3.5	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H14-SB01-07 DUP	BERYLLIUM LEAD NICKEL	J J J	0.071 1.5 2.2	0.17 3.4 3.4	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H14-SB02-25	BERYLLIUM LEAD	J J	0.11 2.4	0.18 3.5	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H14-SB03-06	BERYLLIUM LEAD	J J	0.043 2.3	0.17 3.5	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H14-SS01-01	CADMIUM LEAD	J J	0.065 3.3	0.18 3.6	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H14-SS02-01	BERYLLIUM CADMIUM	J J	0.052 0.052	0.17 0.17	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H14-SS03-01	BERYLLIUM CADMIUM LEAD	J J J	0.10 0.038 2.1	0.21 0.21 4.2	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H16-SB01-05	ARSENIC BERYLLIUM CADMIUM	J J J	1.3 0.12 0.066	1.6 0.20 0.20	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H16-SB01-05 DUP	ARSENIC BERYLLIUM	J J	2.9 0.57	4.7 0.58	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H16-SS01-01	CADMIUM	J	0.13	0.22	LOQ	mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H14-SB01-07 DUP	THALLIUM	J	0.077	0.13	LOQ	mg/Kg	J (all detects)
H14-SB02-25	THALLIUM	J	0.13	0.14	LOQ	mg/Kg	J (all detects)
H14-SS02-01	THALLIUM	J	0.13	0.14	LOQ	mg/Kg	J (all detects)
H16-SB01-05	THALLIUM	J	0.075	0.16	LOQ	mg/Kg	J (all detects)
H16-SS01-01	THALLIUM	JG	0.13	0.18	LOQ	mg/Kg	J (all detects)

Method: 8270D-MOD

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H16-SB01-05	BENZOIC ACID	J	0.25	1.2	LOQ	mg/Kg	J (all detects)
H16-SB01-05 DUP	BENZOIC ACID	J	0.60	3.6	LOQ	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606524 **Laboratory: RTILABS**

EDD Filename: EDD_1606524_SEDD_2a_v28_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
H16-SS01-01	CARBAZOLE DIBENZOFURAN	J J	0.89 0.16	2.1 2.1	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
MP-SS02-01	CARBAZOLE DIBENZOFURAN	J J	0.058 0.030	0.17 0.17	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606580		
Date(s) of Collection:	June 14th, 2016 – June 15th, 2016		
Number/Type Samples & Analyses:	10 groundwater samples and 1 trip blank for a project-specific list of VOCs, PAHs, Lead, PCBs		
Data Reviewer:	Zachary Neigh AECOM/Baltimore MD		
Completed:	August 25th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606580. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-PB-STAR **Matrix: Water**

Sample ID: H4-SB01-GW **Collected:** 6/15/2016 10:55:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	52	G	0.50	LOD	1.0	LOQ	ug/L	J	Fd

Sample ID: H4-SB01-GW DUP **Collected:** 6/15/2016 10:55:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	23	G	0.50	LOD	1.0	LOQ	ug/L	J	Fd

Sample ID: H6-SB01-GW **Collected:** 6/15/2016 12:35:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	33	G	0.50	LOD	1.0	LOQ	ug/L	J	Fd

Sample ID: H6-SB01-GW DUP **Collected:** 6/15/2016 12:35:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	19	G	0.50	LOD	1.0	LOQ	ug/L	J	Fd

Method Category: SVOA

Method: 8082A **Matrix: Water**

Sample ID: H4-SB03-GW **Collected:** 6/15/2016 9:30:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.038	U	0.038	LOD	0.094	LOQ	ug/L	UJ	Surr
AROCLOR 1221	0.038	U	0.038	LOD	0.094	LOQ	ug/L	UJ	Surr
AROCLOR 1232	0.039	U	0.039	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1242	0.038	U	0.038	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1248	0.038	U	0.038	LOD	0.094	LOQ	ug/L	UJ	Surr
AROCLOR 1254	0.038	U	0.038	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1260	0.038	U	0.038	LOD	0.19	LOQ	ug/L	UJ	Surr
Aroclor 1262	0.094	U	0.094	LOD	0.19	LOQ	ug/L	UJ	Surr
Aroclor 1268	0.038	U	0.038	LOD	0.094	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: AST35-SB01-GW **Collected:** 6/16/2016 9:40:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	2.4	UYQZ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
PHENOL	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: AST35-SB01-GW **Collected:** 6/16/2016 9:40:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: MP-SB01-GW **Collected:** 6/14/2016 2:00:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	33	YQZ	2.4	LOD	24	LOQ	ug/L	J	Lcs, Lcs
PHENOL	0.96	UQ	0.96	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: MP-SB01-GW **Collected:** 6/14/2016 2:00:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL)ETHER	2.4	UYZ	2.4	LOD	4.8	LOQ	ug/L	UJ	Lcs
CARBAZOLE	1.8	J	0.96	LOD	4.8	LOQ	ug/L	J	RI
DI-N-BUTYL PHTHALATE	1.1	J	0.96	LOD	4.8	LOQ	ug/L	J	RI
N-NITROSODIMETHYLAMINE	0.96	UYQ	0.96	LOD	4.8	LOQ	ug/L	UJ	Lcs

Method Category: VOA

Method: 8260C **Matrix: Water**

Sample ID: AST35-SB01-GW **Collected:** 6/16/2016 9:40:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
2-Butanone [MEK]	5.0	J	5.0	LOD	10	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **AST35-SB01-GW** ***Collected:*** **6/16/2016 9:40:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

Sample ID: **MP-SB01-GW** ***Collected:*** **6/14/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	36		0.60	LOD	10	LOQ	ug/L	U	Tb
BENZENE	0.47	J	0.60	LOD	1.0	LOQ	ug/L	J	Rl
CARBON DISULFIDE	0.56	J	0.60	LOD	1.0	LOQ	ug/L	J	Rl

Sample ID: **TB-GW-061416-03** ***Collected:*** **6/14/2016 8:20:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ACETONE	3.8	JY	0.60	LOD	10	LOQ	ug/L	J	Rl
BROMODICHLOROMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	0.63	JYBQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs, Mb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.46	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA10 MBLK 06281A	6/28/2016 10:54:00 AM	ACETONE	1.8 ug/L	AST35-SB01-GW
VOA11B MBLK2 062	6/27/2016 3:17:00 AM	CHLOROMETHANE METHYLENE CHLORIDE	0.73 ug/L 0.56 ug/L	TB-GW-061416-03

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
TB-GW-061416-03(Initial/TOT)	CHLOROMETHANE	0.63 ug/L	1.0U ug/L
TB-GW-061416-03(Initial/TOT)	METHYLENE CHLORIDE	0.46 ug/L	5.0U ug/L

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Surrogate Outlier Report

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H4-SB03-GW (Initial/TOT)	DECACHLOROBIPHENYL	33.9	40.00-135.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8260C
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
TB-GW-061416-03 (Initial/TOT)	TOLUENE-D8	88.1	89.00-112.00	No Affected Compounds	

Method: 8270D SIM
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
MP-SB01-GW (Initial/TOT)	Nitrobenzene-d5	220	44.00-120.00	All Base/Neutral Target Analytes	J+(all detects)

Method: 8270D-MOD
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
AST35-SB01-GW (Initial/TOT)	2-FLUOROBIPHENYL PHENOL-D5	43.8 14.8	44.00-119.00 30.00-130.00	No Affected Compounds	
MP-SB01-GW (Initial/TOT)	Nitrobenzene-d5 PHENOL-D5	42.7 19.1	44.00-120.00 30.00-130.00	No Affected Compounds	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40190 LCSD-40190 (MP-SB01-GW)	BENZOIC ACID	42.6	-	50.00-130.00	61.18 (25.00)	BENZOIC ACID	J (all detects) UJ (all non-detects)
LCS-40190 LCSD-40190 (MP-SB01-GW)	4-NITROPHENOL BIS(2-CHLOROISOPROPYL)ETHE N-NITROSODIMETHYLAMINE PHENOL	46.9 49.5 30.1 31.8	46.6 - 35.3 -	50.00-130.00 50.00-130.00 50.00-130.00 34.00-121.00	- - - -	4-NITROPHENOL BIS(2-CHLOROISOPROPYL)ETH N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)
LCS-40220 LCSD-40220 (AST35-SB01-GW)	4-NITROPHENOL BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	30 - 34.9 31.6	35.3 47.9 36.2 -	50.00-130.00 50.00-130.00 50.00-130.00 34.00-121.00	- - - -	4-NITROPHENOL BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)

Method: 8260C
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS2 0626 VOA11B LCSD2 062 (TB-GW-061416-03)	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE STYRENE Trichlorofluoromethane [Freon-11] Xylene (Total)	- 78.8 58.4 65.2 67.8 - - -	73.1 77.2 55.1 62.5 64.5 74.9 62.6 78.2	78.00-124.00 79.00-125.00 66.00-130.00 74.00-126.00 75.00-124.00 78.00-123.00 65.00-141.00 79.00-121.00	- - - - - - - -	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE STYRENE Trichlorofluoromethane [Freon-11] Xylene (Total)	J-(all detects) UJ(all non-detects)
VOA11B LCS2 0626 VOA11B LCSD2 062 (TB-GW-061416-03)	CHLOROMETHANE	151	142	50.00-139.00	-	CHLOROMETHANE	J+(all detects)
VOA10 LCSD 06281 (AST35-SB01-GW)	1,2-DIBROMO-3-CHLOROPROPAN BROMOFORM CHLOROBENZENE	- - -	60.5 64.8 81.1	62.00-128.00 66.00-130.00 82.00-118.00	- - -	1,2-DIBROMO-3-CHLOROPROPA BROMOFORM CHLOROBENZENE	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A-PB-STAR
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	H6-SB01-GW (Total)	H6-SB01-GW DUP (Total)			
LEAD	33	19	54	30.00	J (all detects) UJ (all non-detects)

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	H4-SB01-GW (Total)	H4-SB01-GW DUP (Total)			
LEAD	52	23	77	30.00	J(all detects) UJ(all non-detects)

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-GW-061416-03(Initial/TOT)	6/14/2016 8:20:00 AM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	3.8 ug/L 0.63 ug/L 0.46 ug/L	MP-SB01-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
MP-SB01-GW(Initial/TOT)	ACETONE	36 ug/L	36U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 1606580 **Laboratory: RTILABS**

EDD Filename: EDD_1606580_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
AST35-SB01-GW	2-Butanone [MEK]	J	5.0	10	LOQ	ug/L	J (all detects)
MP-SB01-GW	BENZENE	J	0.47	1.0	LOQ	ug/L	J (all detects)
	CARBON DISULFIDE	J	0.56	1.0	LOQ	ug/L	
TB-GW-061416-03	ACETONE	JY	3.8	10	LOQ	ug/L	J (all detects)
	CHLOROMETHANE	JYBQ	0.63	1.0	LOQ	ug/L	
	METHYLENE CHLORIDE	J	0.46	5.0	LOQ	ug/L	

Method: 8270D-MOD

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
MP-SB01-GW	CARBAZOLE	J	1.8	4.8	LOQ	ug/L	J (all detects)
	DI-N-BUTYL PHTHALATE	J	1.1	4.8	LOQ	ug/L	

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606593		
Date(s) of Collection:	June 14th,2016		
Number/Type Samples & Analyses:	19 soil samples for a project-specific list of SVOCs, PAHs, PCBs, and metals		
Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 31th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606593. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✓ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The initial analysis of the LCS demonstrated a slightly high bias for several PAH compounds. The re-analysis demonstrated acceptable results. However, the lab flagged the samples on the original analysis. The affected samples were WDS-SB03-06, WDS-SB07-05, WDS-SB14-11, WDS-SB15-13, WDS-SB16-13, WDS-SB17-13, MP-SB01-04, MP-SB01-04 DUP, H21-SS01-01, H21-SB01-11, H21-SS02-01, H21-SB02-10.

Sample WDS-SB06-05 was analyzed under SVOC SIM as well as regular 8270 for PAHs. The results will be presented in SVOC SIM.

The following table defines the data qualifiers assigned by ADR and/or during manual data review of ADR output:

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports. Preferred

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **H21-SB01-11** ***Collected:*** **6/14/2016 9:05:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.1	J	0.73	LOD	1.5	LOQ	mg/Kg	J	RI
BERYLLIUM	0.17	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	3.2	J	0.73	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: **H21-SB02-10** ***Collected:*** **6/14/2016 8:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.4	J	0.73	LOD	1.5	LOQ	mg/Kg	J	RI
BERYLLIUM	0.078	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.026	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	3.0	J	0.73	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: **H21-SB03-06** ***Collected:*** **6/14/2016 8:35:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	2.1	J	0.70	LOD	3.5	LOQ	mg/Kg	J	RI
NICKEL	1.8	J	0.70	LOD	3.5	LOQ	mg/Kg	J	RI
SILVER	0.25	J	0.18	LOD	0.70	LOQ	mg/Kg	J	RI

Sample ID: **H21-SS01-01** ***Collected:*** **6/14/2016 9:00:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.062	J	0.035	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.038	J	0.035	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	3.0	J	0.71	LOD	3.5	LOQ	mg/Kg	J	RI

Sample ID: **H21-SS02-01** ***Collected:*** **6/14/2016 8:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.1	J	0.70	LOD	1.4	LOQ	mg/Kg	J	RI
BERYLLIUM	0.035	J	0.035	LOD	0.17	LOQ	mg/Kg	J	RI
CADMIUM	0.037	J	0.035	LOD	0.17	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **H21-SS03-01** ***Collected:*** **6/14/2016 8:30:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.11	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.099	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB01-01** ***Collected:*** **6/14/2016 2:20:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.14	J	0.039	LOD	0.20	LOQ	mg/Kg	J	RI
CADMIUM	0.096	J	0.039	LOD	0.20	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB02-02** ***Collected:*** **6/14/2016 2:35:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.2	J	0.69	LOD	1.4	LOQ	mg/Kg	J	RI
BERYLLIUM	0.033	J	0.035	LOD	0.17	LOQ	mg/Kg	J	RI
CADMIUM	0.082	J	0.035	LOD	0.17	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB03-06** ***Collected:*** **6/14/2016 2:40:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.4	J	0.77	LOD	1.5	LOQ	mg/Kg	J	RI
BERYLLIUM	0.065	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.061	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB04-01** ***Collected:*** **6/14/2016 4:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.12	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.050	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB05-01** ***Collected:*** **6/14/2016 4:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.069	J	0.037	LOD	0.19	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **WDS-SB05-01** ***Collected:*** **6/14/2016 4:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.13	J	0.037	LOD	0.19	LOQ	mg/Kg	J	RI
SILVER	0.10	J	0.19	LOD	0.74	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB06-05** ***Collected:*** **6/14/2016 9:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.063	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB07-05** ***Collected:*** **6/14/2016 9:30:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.5	J	0.91	LOD	1.8	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB14-11** ***Collected:*** **6/14/2016 1:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.056	J	0.033	LOD	0.16	LOQ	mg/Kg	J	RI
LEAD	3.0	J	0.65	LOD	3.3	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB15-13** ***Collected:*** **6/14/2016 11:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.029	J	0.034	LOD	0.17	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB16-13** ***Collected:*** **6/14/2016 12:15:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.85	J	0.75	LOD	1.5	LOQ	mg/Kg	J	RI
BERYLLIUM	0.046	J	0.037	LOD	0.19	LOQ	mg/Kg	J	RI
LEAD	1.9	J	0.75	LOD	3.7	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: WDS-SB17-13 **Collected:** 6/14/2016 12:50:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.87	J	0.66	LOD	1.3	LOQ	mg/Kg	J	RI
LEAD	2.0	J	0.66	LOD	3.3	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H21-SB01-11 **Collected:** 6/14/2016 9:05:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.12	JG	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H21-SB02-10 **Collected:** 6/14/2016 8:55:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.071	JG	0.036	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: H21-SS01-01 **Collected:** 6/14/2016 9:00:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.11	JG	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: H21-SS02-01 **Collected:** 6/14/2016 8:50:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.051	JG	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H21-SS03-01 **Collected:** 6/14/2016 8:30:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.091	JG	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix:** Soil

Sample ID: WDS-SB01-01 **Collected:** 6/14/2016 2:20:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.12	JG	0.042	LOD	0.17	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB02-02 **Collected:** 6/14/2016 2:35:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.068	JG	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB03-06 **Collected:** 6/14/2016 2:40:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.067	JG	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB04-01 **Collected:** 6/14/2016 4:00:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.11	JG	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB05-01 **Collected:** 6/14/2016 4:05:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.085	JG	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB07-05 **Collected:** 6/14/2016 9:30:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.089	J	0.045	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB14-11 **Collected:** 6/14/2016 1:10:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.043	J	0.033	LOD	0.13	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: WDS-SB15-13 **Collected:** 6/14/2016 11:45:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.060	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB16-13 **Collected:** 6/14/2016 12:15:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.075	JG	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB17-13 **Collected:** 6/14/2016 12:50:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.091	JG	0.034	LOD	0.14	LOQ	mg/Kg	J	RI

Method Category: SVOA

Method: 8082A **Matrix: Soil**

Sample ID: H21-SB03-06 **Collected:** 6/14/2016 8:35:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.0074	U	0.0074	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.0074	U	0.0074	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.0074	U	0.0074	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.0074	U	0.0074	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.0074	U	0.0074	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.0074	U	0.0074	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.0074	U	0.0074	LOD	0.037	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.0074	U	0.0074	LOD	0.037	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.0074	U	0.0074	LOD	0.037	LOQ	mg/Kg	UJ	Surr

Sample ID: WDS-SB02-02 **Collected:** 6/14/2016 2:35:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8082A **Matrix:** Soil

Sample ID: WDS-SB02-02 **Collected:** 6/14/2016 2:35:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1221	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr

Method Category: SVOA

Method: 8270D **Matrix:** Soil

Sample ID: WDS-SB01-01 **Collected:** 6/14/2016 2:20:00 PM **Analysis Type:** Initial-ACID **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	0.62	U	0.62	LOD	3.0	LOQ	mg/Kg	UJ	Surr
2,4,6-TRICHLOROPHENOL	0.62	U	0.62	LOD	3.0	LOQ	mg/Kg	UJ	Surr
2,4-DICHLOROPHENOL	1.5	U	1.5	LOD	3.0	LOQ	mg/Kg	UJ	Surr
2,4-Dimethyl phenol	1.5	U	1.5	LOD	3.0	LOQ	mg/Kg	UJ	Surr
2,4-DINITROPHENOL	3.1	UY	3.1	LOD	15	LOQ	mg/Kg	UJ	Surr
2-CHLOROPHENOL	1.5	U	1.5	LOD	3.0	LOQ	mg/Kg	UJ	Surr
2-NITROPHENOL	1.5	U	1.5	LOD	3.0	LOQ	mg/Kg	UJ	Surr
4,6-DINITRO-2-METHYLPHENOL	1.5	UY	1.5	LOD	5.9	LOQ	mg/Kg	UJ	Surr
4-CHLORO-3-METHYLPHENOL	0.62	U	0.62	LOD	3.0	LOQ	mg/Kg	UJ	Surr
4-NITROPHENOL	6.2	U	6.2	LOD	15	LOQ	mg/Kg	UJ	Surr
BENZOIC ACID	6.2	UY	6.2	LOD	19	LOQ	mg/Kg	UJ	Surr
PENTACHLOROPHENOL	1.5	U	1.5	LOD	3.0	LOQ	mg/Kg	UJ	Surr
PHENOL	1.5	U	1.5	LOD	3.0	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D **Matrix: Soil**

Sample ID: WDS-SB01-01 **Collected:** 6/14/2016 2:20:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.037	J	0.093	LOD	0.12	LOQ	mg/Kg	J	RI
ACENAPHTHYLENE	0.037	J	0.093	LOD	0.12	LOQ	mg/Kg	J	RI
ANTHRACENE	0.10	J	0.093	LOD	0.12	LOQ	mg/Kg	J	RI
DIBENZO(A,H)ANTHRACENE	0.093	J	0.093	LOD	0.12	LOQ	mg/Kg	J	RI
FLUORENE	0.031	J	0.093	LOD	0.12	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB06-05 **Collected:** 6/14/2016 9:45:00 AM **Analysis Type:** Dilution-1-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	9.7		0.18	LOD	1.8	LOQ	mg/Kg	J-	EtoA
DIBENZOFURAN	11		0.18	LOD	1.8	LOQ	mg/Kg	J-	EtoA

Sample ID: WDS-SB06-05 **Collected:** 6/14/2016 9:45:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENOL	0.042	J	0.092	LOD	0.18	LOQ	mg/Kg	J	RI

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: H21-SB03-06 **Collected:** 6/14/2016 8:35:00 AM **Analysis Type:** Dilution-1-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.011	Q	0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Lcs, Surr
2-METHYLNAPHTHALENE	0.012		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr
BENZ(A)ANTHRACENE	0.013		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr
BENZO(A)PYRENE	0.0031		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr
BENZO(B)FLUORANTHENE	0.022		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr
BENZO(G,H,I)PERYLENE	0.0051		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr
BENZO(K)FLUORANTHENE	0.0053		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr
CHRYSENE	0.011		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr
FLUORANTHENE	0.025		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **Soil**

Sample ID: **H21-SB03-06** ***Collected:*** **6/14/2016 8:35:00 AM** ***Analysis Type:*** **Dilution-1-BASE/ NEUTRAL** ***Dilution:*** **3**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	0.0051		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr
NAPHTHALENE	0.014		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr
PHENANTHRENE	0.012		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr
PYRENE	0.028		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Surr

Sample ID: **H21-SS01-01** ***Collected:*** **6/14/2016 9:00:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **3**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.022	Q	0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Lcs

Sample ID: **H21-SS02-01** ***Collected:*** **6/14/2016 8:50:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **3**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0045	Q	0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Lcs

Sample ID: **H21-SS03-01** ***Collected:*** **6/14/2016 8:30:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.013	Q	0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Lcs, Surr
2-METHYLNAPHTHALENE	0.016		0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Surr
ACENAPHTHENE	0.0057		0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Surr
ACENAPHTHYLENE	0.0025		0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Surr
ANTHRACENE	0.021		0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Surr
BENZO(G,H,I)PERYLENE	0.0042		0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Surr
DIBENZO(A,H)ANTHRACENE	0.0025		0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Surr
FLUORENE	0.0055		0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Surr
INDENO(1,2,3-CD)PYRENE	0.022		0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Surr
NAPHTHALENE	0.015		0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Surr

Sample ID: **WDS-SB04-01** ***Collected:*** **6/14/2016 4:00:00 PM** ***Analysis Type:*** **Initial2-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0012	Q	0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **Soil**

Sample ID: **WDS-SB04-01** ***Collected:*** **6/14/2016 4:00:00 PM** ***Analysis Type:*** **Initial2-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.0016		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
ACENAPHTHENE	0.00089		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
ACENAPHTHYLENE	0.0066		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
ANTHRACENE	0.0075		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
FLUORENE	0.0014		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
INDENO(1,2,3-CD)PYRENE	0.0085		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
NAPHTHALENE	0.0022		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr

Sample ID: **WDS-SB05-01** ***Collected:*** **6/14/2016 4:05:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0045	Q	0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Lcs, Surr
2-METHYLNAPHTHALENE	0.0062		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
ACENAPHTHENE	0.013		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
ACENAPHTHYLENE	0.0074		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
DIBENZO(A,H)ANTHRACENE	0.013		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
FLUORENE	0.014		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr
NAPHTHALENE	0.0069		0.00075	LOD	0.00075	LOQ	mg/Kg	J+	Surr

Sample ID: **WDS-SB06-05** ***Collected:*** **6/14/2016 9:45:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.7	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Lcs, Surr
2-METHYLNAPHTHALENE	2.0	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
ACENAPHTHENE	7.6	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
ACENAPHTHYLENE	0.26	Q	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
ANTHRACENE	10	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
BENZ(A)ANTHRACENE	170	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
BENZO(A)PYRENE	8.8	J	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
BENZO(B)FLUORANTHENE	16	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
BENZO(G,H,I)PERYLENE	2.9	J	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
BENZO(K)FLUORANTHENE	0.049		0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: WDS-SB06-05 **Collected:** 6/14/2016 9:45:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	20	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
DIBENZO(A,H)ANTHRACENE	1.7	J	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
FLUORANTHENE	23	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
FLUORENE	9.7	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
INDENO(1,2,3-CD)PYRENE	2.9	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
NAPHTHALENE	1.9	J	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
PHENANTHRENE	22	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr
PYRENE	99	JQ	0.0075	LOD	0.0075	LOQ	mg/Kg	J+	Surr

Sample ID: WDS-SB07-05 **Collected:** 6/14/2016 9:30:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0050	Q	0.0027	LOD	0.0027	LOQ	mg/Kg	J+	Lcs

Sample ID: WDS-SB14-11 **Collected:** 6/14/2016 1:10:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0046	Q	0.0021	LOD	0.0021	LOQ	mg/Kg	J+	Lcs

Method Category: SVOA

Method: 8270D-MOD **Matrix: Soil**

Sample ID: H21-SB01-11 **Collected:** 6/14/2016 9:05:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.37	U	0.37	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: H21-SB02-10 **Collected:** 6/14/2016 8:55:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.38	U	0.38	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **H21-SB02-10** ***Collected:*** **6/14/2016 8:55:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DI-N-BUTYL PHTHALATE	0.021	J	0.038	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: **H21-SB03-06** ***Collected:*** **6/14/2016 8:35:00 AM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.76	J	0.37	LOD	1.1	LOQ	mg/Kg	J	RI, Lcs

Sample ID: **H21-SS01-01** ***Collected:*** **6/14/2016 9:00:00 AM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.33	J	0.36	LOD	1.1	LOQ	mg/Kg	J	RI, Lcs

Sample ID: **H21-SS01-01** ***Collected:*** **6/14/2016 9:00:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZOFURAN	0.066	J	0.018	LOD	0.17	LOQ	mg/Kg	J	RI

Sample ID: **H21-SS02-01** ***Collected:*** **6/14/2016 8:50:00 AM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.36	U	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H21-SS03-01** ***Collected:*** **6/14/2016 8:30:00 AM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.37	J	0.38	LOD	1.1	LOQ	mg/Kg	J	RI, Lcs

Sample ID: **H21-SS03-01** ***Collected:*** **6/14/2016 8:30:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZYL ALCOHOL	0.027	J	0.019	LOD	0.75	LOQ	mg/Kg	J	RI
DIBENZOFURAN	0.011	J	0.019	LOD	0.18	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: WDS-SB02-02 **Collected:** 6/14/2016 2:35:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.36	UYQ	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB02-02 **Collected:** 6/14/2016 2:35:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROTOLUENE	0.028	J	0.018	LOD	0.17	LOQ	mg/Kg	J	RI
DI-N-BUTYL PHTHALATE	0.027	J	0.036	LOD	0.17	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB03-06 **Collected:** 6/14/2016 2:40:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.38	UYQ	0.38	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB03-06 **Collected:** 6/14/2016 2:40:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL) PHTHALATE	0.048	J	0.038	LOD	0.18	LOQ	mg/Kg	J	RI
Butyl benzyl phthalate	0.089	J	0.038	LOD	0.18	LOQ	mg/Kg	J	RI
CARBAZOLE	0.022	J	0.019	LOD	0.18	LOQ	mg/Kg	J	RI
DIMETHYL PHTHALATE	0.094	J	0.019	LOD	0.18	LOQ	mg/Kg	J	RI
DI-N-BUTYL PHTHALATE	0.035	J	0.038	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB04-01 **Collected:** 6/14/2016 4:00:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.18	J	0.37	LOD	1.1	LOQ	mg/Kg	J	RI, Lcs

Sample ID: WDS-SB05-01 **Collected:** 6/14/2016 4:05:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.20	JQ	0.37	LOD	1.1	LOQ	mg/Kg	J	RI, Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: WDS-SB05-01 **Collected:** 6/14/2016 4:05:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,4-DICHLOROBENZENE	0.013	J	0.019	LOD	0.18	LOQ	mg/Kg	J	Rl
CARBAZOLE	0.016	J	0.019	LOD	0.18	LOQ	mg/Kg	J	Rl

Sample ID: WDS-SB07-05 **Collected:** 6/14/2016 9:30:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.45	UYQ	0.45	LOD	1.3	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB14-11 **Collected:** 6/14/2016 1:10:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	0.034	UX	0.034	LOD	0.16	LOQ	mg/Kg	UJ	Ms, Surr
2,4,6-TRICHLOROPHENOL	0.034	UX	0.034	LOD	0.16	LOQ	mg/Kg	UJ	Ms, Surr
2,4-DICHLOROPHENOL	0.085	U	0.085	LOD	0.16	LOQ	mg/Kg	UJ	Surr
2,4-Dimethyl phenol	0.085	UX	0.085	LOD	0.16	LOQ	mg/Kg	UJ	Ms, Surr
2,4-DINITROPHENOL	0.17	UYX	0.17	LOD	0.85	LOQ	mg/Kg	UJ	Ms, Surr
2-CHLOROPHENOL	0.085	U	0.085	LOD	0.16	LOQ	mg/Kg	UJ	Surr
2-NITROPHENOL	0.085	UX	0.085	LOD	0.16	LOQ	mg/Kg	UJ	Ms, Surr
4,6-DINITRO-2-METHYLPHENOL	0.085	UYX	0.085	LOD	0.33	LOQ	mg/Kg	UJ	Ms, Surr
4-CHLORO-3-METHYLPHENOL	0.034	U	0.034	LOD	0.16	LOQ	mg/Kg	UJ	Surr
4-NITROPHENOL	0.34	UX	0.34	LOD	0.85	LOQ	mg/Kg	UJ	Ms, Surr
BENZOIC ACID	0.34	UYQX	0.34	LOD	1.0	LOQ	mg/Kg	UJ	Ms, Lcs, Surr
PENTACHLOROPHENOL	0.085	UX	0.085	LOD	0.16	LOQ	mg/Kg	UJ	Ms, Surr
PHENOL	0.085	U	0.085	LOD	0.16	LOQ	mg/Kg	UJ	Surr

Sample ID: WDS-SB14-11 **Collected:** 6/14/2016 1:10:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.68	UX	0.68	LOD	1.0	LOQ	mg/Kg	UJ	Ms
4-NITROANILINE	0.085	UX	0.085	LOD	0.33	LOQ	mg/Kg	UJ	Ms
N-NITROSODIPHENYLAMINE	0.017	UX	0.017	LOD	0.16	LOQ	mg/Kg	UJ	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Soil**

Sample ID: WDS-SB15-13 **Collected:** 6/14/2016 11:45:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.36	UYQ	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB16-13 **Collected:** 6/14/2016 12:15:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.37	UYQ	0.37	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB17-13 **Collected:** 6/14/2016 12:50:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.34	U	0.34	LOD	1.0	LOQ	mg/Kg	UJ	Lcs

Method Category: SVOA

Method: 8270D-SIM-STAR **Matrix: Soil**

Sample ID: MP-SB01-04 **Collected:** 6/14/2016 10:25:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
ACENAPHTHYLENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
ANTHRACENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
BENZ(A)ANTHRACENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
BENZO(A)PYRENE	0.0025	U	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
BENZO(B)FLUORANTHENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
BENZO(G,H,I)PERYLENE	0.0025	U	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
BENZO(K)FLUORANTHENE	0.0025	U	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
CHRYSENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
DIBENZO(A,H)ANTHRACENE	0.0025	U	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
FLUORANTHENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
FLUORENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr
PHENANTHRENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-SIM-STAR** ***Matrix:*** **Soil**

Sample ID: **MP-SB01-04** ***Collected:*** **6/14/2016 10:25:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **3**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
PYRENE	0.0025	UQ	0.0025	LOD	0.0025	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
EtoA	Extraction to Analysis Estimation
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
ProfJudg	Professional Judgment
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	A
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D **Preparation Method: SW3546**

Matrix: Soil

Sample ID	Type	Actual	Criteria	Units	Flag
WDS-SB06-05 (Dilution-1)	Extraction To Analysis	42.00	40.00	DAYS	J- (all detects)
WDS-SB06-05 (Dilution-2)		42.00	40.00	DAYS	UJ (all non-detects)

Project Name and Number: - USACE Project:

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D **Preparation Method: SW3546**

Matrix: Soil

Sample ID	Type	Actual	Criteria	Units	Flag
WDS-SB06-05 (Dilution-1)	Extraction To Analysis	42.00	40.00	DAYS	J- (all detects)
WDS-SB06-05 (Dilution-2)		42.00	40.00	DAYS	UJ (all non-detects)

Project Name and Number: - USACE Project:

Method Blank Outlier Report

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40445	7/21/2016 2:41:09 PM	SODIUM	2.1 mg/Kg	H21-SB01-11 H21-SB02-10 H21-SB03-06 H21-SS01-01 H21-SS02-01 H21-SS03-01 WDS-SB01-01 WDS-SB02-02 WDS-SB03-06 WDS-SB04-01 WDS-SB05-01 WDS-SB06-05 WDS-SB07-05 WDS-SB14-11 WDS-SB15-13 WDS-SB16-13 WDS-SB17-13

Surrogate Outlier Report

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H21-SB03-06 (Initial)	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	17.2 18.1	60.00-125.00 44.00-130.00	All Target Analytes	J- (all detects) UJ (all non-detects)
WDS-SB02-02 (Initial)	DECACHLOROBIPHENYL	51.2	60.00-125.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
WDS-SB01-01 (Initial)	2,4,6-TRIBROMOPHENOL 2-FLUOROPHENOL PHENOL-D5	0 0 0	39.00-132.00 35.00-115.00 33.00-122.00	All Acid Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB06-05 (Initial)	Terphenyl-d14	154	54.00-127.00	No Affected Compounds	

Method: 8270D SIM
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H21-SB03-06 (Dilution-1)	Nitrobenzene-d5 Terphenyl-d14	151 160	44.00-125.00 58.00-133.00	All Base/Neutral Target Analytes	J+(all detects)
H21-SS03-01 (Initial)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	132 160 165	46.00-115.00 44.00-125.00 58.00-133.00	All Base/Neutral Target Analytes	J+(all detects)
WDS-SB04-01 (Initial2)	Terphenyl-d14	137	58.00-133.00	All Base/Neutral Target Analytes	J+(all detects)
WDS-SB05-01 (Initial)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	118 135 154	46.00-115.00 44.00-125.00 58.00-133.00	All Base/Neutral Target Analytes	J+(all detects)
WDS-SB06-05 (Initial)	Terphenyl-d14	3420	58.00-133.00	All Base/Neutral Target Analytes	J+(all detects)

Method: 8270D-MOD
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
WDS-SB14-11 (Initial)	2,4,6-TRIBROMOPHENOL 2-FLUOROPHENOL	16.7 32.6	39.00-132.00 35.00-115.00	All Acid Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB15-13 (Initial)	2,4,6-TRIBROMOPHENOL	35.5	39.00-132.00	No Affected Compounds	
WDS-SB16-13 (Initial)	2,4,6-TRIBROMOPHENOL	33.6	39.00-132.00	No Affected Compounds	

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Surrogate Outlier Report

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-SIM-STAR**
Matrix: **Soil**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
MP-SB01-04 (Initial)	Nitrobenzene-d5	41.5	44.00-125.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
WDS-SB14-11MS WDS-SB14-11MSD (WDS-SB14-11)	4-NITROPHENOL	0	15.7	30.00-132.00	200 (25.00)	4-NITROPHENOL	J (all detects) UJ (all non-detects)
WDS-SB14-11MS WDS-SB14-11MSD (WDS-SB14-11)	2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4-Dimethyl phenol 2,4-DINITROPHENOL 2-NITROPHENOL 3,3'-DICHLOROBENZIDINE 4,6-DINITRO-2-METHYLPHENOL 4-NITROANILINE BENZOIC ACID N-NITROSODIPHENYLAMINE PENTACHLOROPHENOL	26.2 27.9 29.7 0 30.7 0 15.9 44.7 0 22.6 11.5	31.4 30.3 - 0 32.9 0 16.3 - 0 24.5 11.3	41.00-124.00 39.00-126.00 30.00-127.00 50.00-130.00 36.00-123.00 22.00-121.00 29.00-132.00 50.00-130.00 40.00-117.00 38.00-127.00 25.00-133.00	- - - - - - - - - - -	2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4-Dimethyl phenol 2,4-DINITROPHENOL 2-NITROPHENOL 3,3'-DICHLOROBENZIDINE 4,6-DINITRO-2-METHYLPHENOL 4-NITROANILINE BENZOIC ACID N-NITROSODIPHENYLAMINE PENTACHLOROPHENOL	J-(all detects) UJ(all non-detects)

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
WDS-SB14-11MS WDS-SB14-11MSD (WDS-SB14-11)	4-NITROPHENOL	0	15.7	30.00-132.00	200 (25.00)	4-NITROPHENOL	J(all detects) UJ(all non-detects)
WDS-SB14-11MS WDS-SB14-11MSD (WDS-SB14-11)	2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4-Dimethyl phenol 2,4-DINITROPHENOL 2-NITROPHENOL 3,3'-DICHLOROBENZIDINE 4,6-DINITRO-2-METHYLPHENOL 4-NITROANILINE BENZOIC ACID N-NITROSODIPHENYLAMINE PENTACHLOROPHENOL	26.2 27.9 29.7 0 30.7 0 15.9 44.7 0 22.6 11.5	31.4 30.3 - 0 32.9 0 16.3 - 0 24.5 11.3	41.00-124.00 39.00-126.00 30.00-127.00 50.00-130.00 36.00-123.00 22.00-121.00 29.00-132.00 50.00-130.00 40.00-117.00 38.00-127.00 25.00-133.00	- - - - - - - - - - -	2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4-Dimethyl phenol 2,4-DINITROPHENOL 2-NITROPHENOL 3,3'-DICHLOROBENZIDINE 4,6-DINITRO-2-METHYLPHENOL 4-NITROANILINE BENZOIC ACID N-NITROSODIPHENYLAMINE PENTACHLOROPHENOL	J-(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40226 (H21-SB01-11 H21-SB02-10 H21-SB03-06 H21-SS01-01 H21-SS02-01 H21-SS03-01 WDS-SB01-01 WDS-SB02-02 WDS-SB03-06 WDS-SB04-01 WDS-SB06-05 WDS-SB07-05 WDS-SB14-11 WDS-SB15-13 WDS-SB16-13 WDS-SB17-13)	BENZOIC ACID	19.7	-	40.00-117.00	-	BENZOIC ACID	J- (all detects) UJ (all non-detects)
LCS-40244 (WDS-SB05-01)	BENZOIC ACID	0	-	40.00-117.00	-	BENZOIC ACID	J-(all detects) UJ(all non-detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40258 (H21-SB01-11 H21-SB02-10 H21-SB03-06 H21-SS01-01 H21-SS02-01 H21-SS03-01 MP-SB01-04 MP-SB01-04 DUP WDS-SB03-06 WDS-SB06-05 WDS-SB07-05 WDS-SB14-11 WDS-SB15-13 WDS-SB16-13 WDS-SB17-13)	1-METHYLNAPHTHALENE	115	-	43.00-111.00	-	1-METHYLNAPHTHALENE	J+(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-SIM-STAR
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
1-LCS-40258 (H21-SB01-11 H21-SB02-10 H21-SB03-06 H21-SS01-01 H21-SS02-01 H21-SS03-01 MP-SB01-04 MP-SB01-04 DUP WDS-SB03-06 WDS-SB06-05 WDS-SB07-05 WDS-SB14-11 WDS-SB15-13 WDS-SB16-13 WDS-SB17-13)	ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZ(A)ANTHRACENE BENZO(B)FLUORANTHENE CHRYSENE FLUORANTHENE FLUORENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE PYRENE	120 120 116 133 148 121 122 118 151 120 126	- - - - - - - - - - -	44.00-111.00 39.00-116.00 50.00-114.00 54.00-122.00 53.00-128.00 57.00-118.00 55.00-119.00 47.00-114.00 49.00-130.00 49.00-113.00 55.00-117.00	- - - - - - - - - - -	ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZ(A)ANTHRACENE BENZO(B)FLUORANTHENE CHRYSENE FLUORANTHENE FLUORENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE PYRENE	J+(all detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40280 (WDS-SB04-01 WDS-SB05-01)	1-METHYLNAPHTHALENE	115	-	43.00-111.00	-	1-METHYLNAPHTHALENE	J+(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
H21-SB01-11	ARSENIC BERYLLIUM LEAD	J J J	1.1 0.17 3.2	1.5 0.18 3.6	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H21-SB02-10	ARSENIC BERYLLIUM CADMIUM LEAD	J J J J	1.4 0.078 0.026 3.0	1.5 0.18 0.18 3.6	LOQ LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg mg/Kg	J (all detects)
H21-SB03-06	LEAD NICKEL SILVER	J J J	2.1 1.8 0.25	3.5 3.5 0.70	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H21-SS01-01	BERYLLIUM CADMIUM LEAD	J J J	0.062 0.038 3.0	0.18 0.18 3.5	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H21-SS02-01	ARSENIC BERYLLIUM CADMIUM	J J J	1.1 0.035 0.037	1.4 0.17 0.17	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H21-SS03-01	BERYLLIUM CADMIUM	J J	0.11 0.099	0.19 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB01-01	BERYLLIUM CADMIUM	J J	0.14 0.096	0.20 0.20	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB02-02	ARSENIC BERYLLIUM CADMIUM	J J J	1.2 0.033 0.082	1.4 0.17 0.17	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
WDS-SB03-06	ARSENIC BERYLLIUM CADMIUM	J J J	1.4 0.065 0.061	1.5 0.19 0.19	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
WDS-SB04-01	BERYLLIUM CADMIUM	J J	0.12 0.050	0.19 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB05-01	BERYLLIUM CADMIUM SILVER	J J J	0.069 0.13 0.10	0.19 0.19 0.74	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
WDS-SB06-05	BERYLLIUM	J	0.063	0.18	LOQ	mg/Kg	J (all detects)
WDS-SB07-05	ARSENIC	J	1.5	1.8	LOQ	mg/Kg	J (all detects)
WDS-SB14-11	BERYLLIUM LEAD	J J	0.056 3.0	0.16 3.3	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB15-13	CADMIUM	J	0.029	0.17	LOQ	mg/Kg	J (all detects)
WDS-SB16-13	ARSENIC BERYLLIUM LEAD	J J J	0.85 0.046 1.9	1.5 0.19 3.7	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
WDS-SB17-13	ARSENIC LEAD	J J	0.87 2.0	1.3 3.3	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H21-SB01-11	THALLIUM	JG	0.12	0.15	LOQ	mg/Kg	J (all detects)
H21-SB02-10	THALLIUM	JG	0.071	0.14	LOQ	mg/Kg	J (all detects)
H21-SS01-01	THALLIUM	JG	0.11	0.14	LOQ	mg/Kg	J (all detects)
H21-SS02-01	THALLIUM	JG	0.051	0.15	LOQ	mg/Kg	J (all detects)
H21-SS03-01	THALLIUM	JG	0.091	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB01-01	THALLIUM	JG	0.12	0.17	LOQ	mg/Kg	J (all detects)
WDS-SB02-02	THALLIUM	JG	0.068	0.14	LOQ	mg/Kg	J (all detects)
WDS-SB03-06	THALLIUM	JG	0.067	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB04-01	THALLIUM	JG	0.11	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB05-01	THALLIUM	JG	0.085	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB07-05	THALLIUM	J	0.089	0.18	LOQ	mg/Kg	J (all detects)
WDS-SB14-11	THALLIUM	J	0.043	0.13	LOQ	mg/Kg	J (all detects)
WDS-SB15-13	THALLIUM	J	0.060	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB16-13	THALLIUM	JG	0.075	0.14	LOQ	mg/Kg	J (all detects)
WDS-SB17-13	THALLIUM	JG	0.091	0.14	LOQ	mg/Kg	J (all detects)

Method: 8270D

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
WDS-SB01-01	ACENAPHTHENE	J	0.037	0.12	LOQ	mg/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.037	0.12	LOQ	mg/Kg	
	ANTHRACENE	J	0.10	0.12	LOQ	mg/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.093	0.12	LOQ	mg/Kg	
	FLUORENE	J	0.031	0.12	LOQ	mg/Kg	
WDS-SB06-05	PHENOL	J	0.042	0.18	LOQ	mg/Kg	J (all detects)

Method: 8270D-MOD

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H21-SB02-10	DI-N-BUTYL PHTHALATE	J	0.021	0.18	LOQ	mg/Kg	J (all detects)
H21-SB03-06	BENZOIC ACID	J	0.76	1.1	LOQ	mg/Kg	J (all detects)
H21-SS01-01	BENZOIC ACID	J	0.33	1.1	LOQ	mg/Kg	J (all detects)
	DIBENZOFURAN	J	0.066	0.17	LOQ	mg/Kg	
H21-SS03-01	BENZOIC ACID	J	0.37	1.1	LOQ	mg/Kg	J (all detects)
	BENZYL ALCOHOL	J	0.027	0.75	LOQ	mg/Kg	
	DIBENZOFURAN	J	0.011	0.18	LOQ	mg/Kg	

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606593 **Laboratory: RTILABS**

EDD Filename: EDD_1606593_SEDD_2a_v31_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
WDS-SB02-02	2,4-DINITROTOLUENE	J	0.028	0.17	LOQ	mg/Kg	J (all detects)
	DI-N-BUTYL PHTHALATE	J	0.027	0.17	LOQ	mg/Kg	
WDS-SB03-06	BIS(2-ETHYLHEXYL) PHTHALATE	J	0.048	0.18	LOQ	mg/Kg	
	Butyl benzyl phthalate	J	0.089	0.18	LOQ	mg/Kg	
	CARBAZOLE	J	0.022	0.18	LOQ	mg/Kg	J (all detects)
	DIMETHYL PHTHALATE	J	0.094	0.18	LOQ	mg/Kg	
	DI-N-BUTYL PHTHALATE	J	0.035	0.18	LOQ	mg/Kg	
WDS-SB04-01	BENZOIC ACID	J	0.18	1.1	LOQ	mg/Kg	J (all detects)
WDS-SB05-01	1,4-DICHLOROBENZENE	J	0.013	0.18	LOQ	mg/Kg	
	BENZOIC ACID	JQ	0.20	1.1	LOQ	mg/Kg	J (all detects)
	CARBAZOLE	J	0.016	0.18	LOQ	mg/Kg	

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606601		
Date(s) of Collection:	June 15th, 2016		
Number/Type Samples & Analyses:	8 soil samples for a project-specific list of SVOCs, PAHs, PCBs, and metals		
Data Reviewer:	Zach Neigh AECOM/Baltimore, MD		
Completed:	August 31st, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606601. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Fin al *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

NA Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR and/or during manual data review of the ADR output.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **H1-SS01-01** ***Collected:*** **6/15/2016 8:40:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.78	J	0.48	LOD	0.97	LOQ	mg/Kg	J	RI
ARSENIC	0.90	J	0.97	LOD	1.9	LOQ	mg/Kg	J	RI
BERYLLIUM	0.063	J	0.048	LOD	0.24	LOQ	mg/Kg	J	RI
CADMIUM	0.066	J	0.048	LOD	0.24	LOQ	mg/Kg	J	RI
COBALT	0.78	J	0.24	LOD	0.97	LOQ	mg/Kg	J	RI
NICKEL	2.4	J	0.97	LOD	4.8	LOQ	mg/Kg	J	RI
LEAD	2.5	J	0.97	LOD	4.8	LOQ	mg/Kg	J	RI

Sample ID: **H1-SS01-02** ***Collected:*** **6/15/2016 8:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.025	J	0.044	LOD	0.22	LOQ	mg/Kg	J	RI
CADMIUM	0.045	J	0.044	LOD	0.22	LOQ	mg/Kg	J	RI
LEAD	2.9	J	0.88	LOD	4.4	LOQ	mg/Kg	J	RI
NICKEL	2.4	J	0.88	LOD	4.4	LOQ	mg/Kg	J	RI

Sample ID: **H1-SS02-01** ***Collected:*** **6/15/2016 9:00:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.86	J	0.90	LOD	1.8	LOQ	mg/Kg	J	RI
LEAD	3.6	J	0.90	LOD	4.5	LOQ	mg/Kg	J	RI
NICKEL	2.8	J	0.90	LOD	4.5	LOQ	mg/Kg	J	RI
SILVER	0.63	J	0.23	LOD	0.90	LOQ	mg/Kg	J	RI

Sample ID: **H1-SS02-02** ***Collected:*** **6/15/2016 9:05:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.3	J	0.77	LOD	3.9	LOQ	mg/Kg	J	RI
SILVER	0.31	J	0.19	LOD	0.77	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: H2-SS01-01 **Collected:** 6/15/2016 9:40:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.1	J	0.73	LOD	1.5	LOQ	mg/Kg	J	RI
BERYLLIUM	0.083	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.13	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: H2-SS01-02 **Collected:** 6/15/2016 9:50:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.84	J	0.73	LOD	1.5	LOQ	mg/Kg	J	RI
BERYLLIUM	0.080	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.090	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: H2-SS02-01 **Collected:** 6/15/2016 10:00:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.14	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.16	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: H2-SS02-02 **Collected:** 6/15/2016 10:10:00 AM **Analysis Type:** Dilution-1 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	16000		38	LOD	110	LOQ	mg/Kg	J+	Ms
MAGNESIUM	2300		38	LOD	380	LOQ	mg/Kg	J+	Ms
MANGANESE	260		1.9	LOD	7.6	LOQ	mg/Kg	J+	Ms

Sample ID: H2-SS02-02 **Collected:** 6/15/2016 10:10:00 AM **Analysis Type:** Dilution-2 **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12000		150	LOD	380	LOQ	mg/Kg	J+	Ms

Sample ID: H2-SS02-02 **Collected:** 6/15/2016 10:10:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	35	X	3.8	LOD	7.6	LOQ	mg/Kg	J+	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: H2-SS02-02 **Collected:** 6/15/2016 10:10:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.14	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI
CALCIUM	650	X	7.6	LOD	38	LOQ	mg/Kg	J+	Ms
CHROMIUM	18	X	0.31	LOD	0.38	LOQ	mg/Kg	J+	Ms
COPPER	42	X	0.76	LOD	3.8	LOQ	mg/Kg	J+	Ms
POTASSIUM	1400	X	7.6	LOD	15	LOQ	mg/Kg	J+	Ms
SODIUM	83	X	3.8	LOD	38	LOQ	mg/Kg	J+	Ms
VANADIUM	23	X	0.76	LOD	1.9	LOQ	mg/Kg	J+	Ms
ZINC	110	X	0.38	LOD	3.8	LOQ	mg/Kg	J+	Ms

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H1-SS01-01 **Collected:** 6/15/2016 8:40:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.068	J	0.048	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: H1-SS01-02 **Collected:** 6/15/2016 8:50:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.050	J	0.045	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: H1-SS02-02 **Collected:** 6/15/2016 9:05:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.057	JG	0.040	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: H2-SS01-01 **Collected:** 6/15/2016 9:40:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.082	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H2-SS01-02 **Collected:** 6/15/2016 9:50:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.078	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H2-SS02-01 **Collected:** 6/15/2016 10:00:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.12	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H2-SS02-02 **Collected:** 6/15/2016 10:10:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.13	JG	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

Method Category: SVOA

Method: 8082A **Matrix: Soil**

Sample ID: H2-SS01-01 **Collected:** 6/15/2016 9:40:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Soil

Sample ID: H1-SS01-02 **Collected:** 6/15/2016 8:50:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.0019		0.00091	LOD	0.00091	LOQ	mg/Kg	J+	Surr
BENZO(B)FLUORANTHENE	0.0030		0.00091	LOD	0.00091	LOQ	mg/Kg	J+	Surr
BENZO(G,H,I)PERYLENE	0.0016		0.00091	LOD	0.00091	LOQ	mg/Kg	J+	Surr
BENZO(K)FLUORANTHENE	0.0020		0.00091	LOD	0.00091	LOQ	mg/Kg	J+	Surr
CHRYSENE	0.0021		0.00091	LOD	0.00091	LOQ	mg/Kg	J+	Surr
FLUORANTHENE	0.0051		0.00091	LOD	0.00091	LOQ	mg/Kg	J+	Surr
INDENO(1,2,3-CD)PYRENE	0.0016		0.00091	LOD	0.00091	LOQ	mg/Kg	J+	Surr
PHENANTHRENE	0.0025		0.00091	LOD	0.00091	LOQ	mg/Kg	J+	Surr
PYRENE	0.0041		0.00091	LOD	0.00091	LOQ	mg/Kg	J+	Surr

Sample ID: H1-SS02-01 **Collected:** 6/15/2016 9:00:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.0013		0.00092	LOD	0.00092	LOQ	mg/Kg	J+	Surr
BENZO(G,H,I)PERYLENE	0.0018		0.00092	LOD	0.00092	LOQ	mg/Kg	J+	Surr
CHRYSENE	0.0013		0.00092	LOD	0.00092	LOQ	mg/Kg	J+	Surr
FLUORANTHENE	0.0031		0.00092	LOD	0.00092	LOQ	mg/Kg	J+	Surr
INDENO(1,2,3-CD)PYRENE	0.0018		0.00092	LOD	0.00092	LOQ	mg/Kg	J+	Surr
PHENANTHRENE	0.0014		0.00092	LOD	0.00092	LOQ	mg/Kg	J+	Surr
PYRENE	0.0024		0.00092	LOD	0.00092	LOQ	mg/Kg	J+	Surr

Sample ID: H2-SS01-01 **Collected:** 6/15/2016 9:40:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.00078		0.00074	LOD	0.00074	LOQ	mg/Kg	J+	Lcs

Sample ID: H2-SS01-02 **Collected:** 6/15/2016 9:50:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.00099		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Lcs, Surr
2-METHYLNAPHTHALENE	0.0015		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
ACENAPHTHENE	0.00087		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Soil

Sample ID: H2-SS01-02 **Collected:** 6/15/2016 9:50:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.0020		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
BENZ(A)ANTHRACENE	0.029		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
BENZO(A)PYRENE	0.029		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
BENZO(G,H,I)PERYLENE	0.00092		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
BENZO(K)FLUORANTHENE	0.0056		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
CHRYSENE	0.027		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
DIBENZO(A,H)ANTHRACENE	0.0016		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
FLUORANTHENE	0.032		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
FLUORENE	0.00094		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
INDENO(1,2,3-CD)PYRENE	0.020		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
NAPHTHALENE	0.0013		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
PHENANTHRENE	0.012		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr
PYRENE	0.032		0.00076	LOD	0.00076	LOQ	mg/Kg	J+	Surr

Sample ID: H2-SS02-01 **Collected:** 6/15/2016 10:00:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0024		0.00077	LOD	0.00077	LOQ	mg/Kg	J+	Lcs

Sample ID: H2-SS02-02 **Collected:** 6/15/2016 10:10:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0010	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Ms, Lcs, Surr
2-METHYLNAPHTHALENE	0.0019		0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Surr
ACENAPHTHENE	0.0012		0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Surr
ACENAPHTHYLENE	0.00090		0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Surr
ANTHRACENE	0.0024	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Ms, Surr
BENZ(A)ANTHRACENE	0.014	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J	Ms, Ms, Surr
BENZO(A)PYRENE	0.013	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J	Ms, Ms, Surr
BENZO(B)FLUORANTHENE	0.023	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Ms, Surr
BENZO(K)FLUORANTHENE	0.0053	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J	Ms, Ms, Surr
CHRYSENE	0.014	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J	Ms, Ms, Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA
Method: 8270D SIM **Matrix:** Soil

Sample ID: H2-SS02-02 **Collected:** 6/15/2016 10:10:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	0.00078	UX	0.00078	LOD	0.00078	LOQ	mg/Kg	UJ	Ms
FLUORANTHENE	0.028	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J	Ms, Ms, Ms, Surr
FLUORENE	0.0013		0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Surr
INDENO(1,2,3-CD)PYRENE	0.0053	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J	Ms, Surr
NAPHTHALENE	0.0014		0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Surr
PHENANTHRENE	0.015	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Ms, Surr
PYRENE	0.023	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J	Ms, Ms, Surr

Method Category: SVOA
Method: 8270D-MOD **Matrix:** Soil

Sample ID: H1-SS01-01 **Collected:** 6/15/2016 8:40:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.30	JQ	0.48	LOD	1.4	LOQ	mg/Kg	J	Rl, Lcs

Sample ID: H1-SS01-02 **Collected:** 6/15/2016 8:50:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.24	JQ	0.45	LOD	1.3	LOQ	mg/Kg	J	Rl, Lcs

Sample ID: H1-SS02-01 **Collected:** 6/15/2016 9:00:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.28	JQ	0.46	LOD	1.4	LOQ	mg/Kg	J	Rl, Lcs

Sample ID: H1-SS02-02 **Collected:** 6/15/2016 9:05:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.40	UQ	0.40	LOD	1.2	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: H2-SS01-01 **Collected:** 6/15/2016 9:40:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.36	UQ	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: H2-SS01-02 **Collected:** 6/15/2016 9:50:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.37	UY	0.37	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: H2-SS02-01 **Collected:** 6/15/2016 10:00:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.37	UY	0.37	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: H2-SS02-02 **Collected:** 6/15/2016 10:10:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.41	UQX	0.41	LOD	1.2	LOQ	mg/Kg	UJ	Lcs

Sample ID: H2-SS02-02 **Collected:** 6/15/2016 10:10:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,6-DINITROTOLUENE	0.020	UX	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Ms
3,3'-DICHLOROBENZIDINE	0.81	UX	0.81	LOD	1.2	LOQ	mg/Kg	UJ	Ms
3-NITROANILINE	0.020	UYX	0.020	LOD	0.39	LOQ	mg/Kg	UJ	Ms
4-BROMOPHENYL PHENYL ETHER	0.10	UX	0.10	LOD	0.24	LOQ	mg/Kg	UJ	Ms
4-CHLOROPHENYL PHENYL ETHER	0.020	UX	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Ms
4-NITROANILINE	0.10	UYX	0.10	LOD	0.39	LOQ	mg/Kg	UJ	Ms
BIS(2-ETHYLHEXYL) PHTHALATE	0.041	UX	0.041	LOD	0.19	LOQ	mg/Kg	UJ	Ms
Butyl benzyl phthalate	0.041	UX	0.041	LOD	0.19	LOQ	mg/Kg	UJ	Ms
CARBAZOLE	0.020	UX	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Ms
DIETHYL PHTHALATE	0.020	UX	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Ms
DIMETHYL PHTHALATE	0.020	UX	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Ms
DI-N-BUTYL PHTHALATE	0.041	UX	0.041	LOD	0.19	LOQ	mg/Kg	UJ	Ms
HEXACHLOROBENZENE	0.020	UX	0.020	LOD	0.19	LOQ	mg/Kg	UJ	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category:	**SVOA**		
Method:	**8270D-MOD**	***Matrix:***	**Soil**

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40326	7/5/2016 12:02:36 PM	POTASSIUM	8.6 mg/Kg	H2-SS02-02
MB-40445	7/21/2016 2:41:09 PM	SODIUM	2.1 mg/Kg	H1-SS02-01 H1-SS02-02

Surrogate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H2-SS01-01 (Initial)	TETRACHLORO-M-XYLENE	43	44.00-130.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D SIM
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H1-SS01-02 (Initial)	Nitrobenzene-d5	130	44.00-125.00	All Base/Neutral Target Analytes	J+(all detects)
H1-SS02-01 (Initial)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	117 133 139	46.00-115.00 44.00-125.00 58.00-133.00	All Base/Neutral Target Analytes	J+(all detects)
H2-SS01-02 (Initial)	2-FLUOROBIPHENYL Nitrobenzene-d5	122 138	46.00-115.00 44.00-125.00	All Base/Neutral Target Analytes	J+(all detects)
H2-SS02-02 (Initial)	Nitrobenzene-d5	133	44.00-125.00	All Base/Neutral Target Analytes	J+(all detects)

Method: 8270D-MOD
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H1-SS01-01 (Initial)	Terphenyl-d14	51.4	54.00-127.00	No Affected Compounds	
H1-SS02-01 (Initial)	Terphenyl-d14	53	54.00-127.00	No Affected Compounds	
H2-SS01-01 (Initial)	Terphenyl-d14	53.4	54.00-127.00	No Affected Compounds	
H2-SS02-02 (Initial)	Terphenyl-d14	49.7	54.00-127.00	No Affected Compounds	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
H2-SS02-02MSD (H2-SS02-02)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
	1,2,4-TRICHLOROBENZENE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4-DICHLOROPHENOL 2,4-Dimethyl phenol 2,4-DINITROPHENOL 2,4-DINITROTOLUENE 2-CHLORONAPHTHALENE 2-CHLOROPHENOL 2-Methylphenol (o-Cresol) 2-NITROANILINE 2-NITROPHENOL 3/4-Methylphenol [m/p-Cresol] 4,6-DINITRO-2-METHYLPHENOL 4-CHLORO-3-METHYLPHENOL 4-Chloroaniline [p-Chloroaniline] 4-NITROPHENOL BENZOIC ACID BENZYL ALCOHOL bis(2-chloroethoxy) methane BIS(2-CHLOROETHYL) ETHER BIS(2-CHLOROISOPROPYL)ETHE DIBENZOFURAN DI-N-OCTYL PHTHALATE HEXACHLOROBUTADIENE HEXACHLOROETHANE ISOPHORONE NITROBENZENE N-NITROSODIMETHYLAMINE N-Nitrosodi-n-propylamine N-NITROSODIPHENYLAMINE PENTACHLOROPHENOL PHENOL						

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
				34.00-118.00			
				33.00-117.00			
				30.00-115.00			
				31.00-115.00			
				41.00-124.00			
				39.00-126.00			
				40.00-122.00			
				30.00-127.00			
				50.00-130.00			
				48.00-126.00			
				41.00-114.00			
				34.00-121.00			
				32.00-122.00			
				44.00-127.00			
				36.00-123.00			
				34.00-119.00			
				29.00-132.00			
				45.00-122.00			
				17.00-106.00			
				30.00-132.00			
				40.00-117.00			
				29.00-122.00			
				36.00-121.00			
				31.00-120.00			
				33.00-131.00			
				44.00-120.00			
				45.00-140.00			
				32.00-123.00			
				28.00-117.00			
				30.00-122.00			
				34.00-122.00			
				23.00-120.00			
				36.00-120.00			
				38.00-127.00			
				25.00-133.00			
				34.00-121.00			

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
					44.24 (25.00)		
					44.99 (25.00)		
					47.12 (25.00)		
					45.14 (25.00)		
					49.53 (25.00)		
					52.08 (25.00)		
					48.8 (25.00)		
					54.29 (25.00)		
					41.91 (25.00)		
					52.67 (25.00)		
					47.62 (25.00)		
					49.45 (25.00)		
					49.01 (25.00)		
					52.25 (25.00)		
					45.73 (25.00)		
					54.25 (25.00)		
					51.42 (25.00)		
					49.83 (25.00)		
					30.63 (25.00)		
					48.5 (25.00)		
					55.43 (25.00)		
					50.85 (25.00)		
					44.81 (25.00)		
					46.38 (25.00)		
					47.56 (25.00)		
					47.94 (25.00)		
					51.18 (25.00)		
					47.17 (25.00)		
					50.13 (25.00)		
					47.04 (25.00)		
					44.23 (25.00)		
					43.26 (25.00)		
					53.32 (25.00)		
					45.92 (25.00)		
					61.86 (25.00)		
					48.55 (25.00)		

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
						1,2,4-TRICHLOROBENZENE 1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 2,4,5-TRICHLOROPHENOL 2,4,6-TRICHLOROPHENOL 2,4-DICHLOROPHENOL 2,4-Dimethyl phenol 2,4-DINITROPHENOL 2,4-DINITROTOLUENE 2-CHLORONAPHTHALENE 2-CHLOROPHENOL 2-Methylphenol (o-Cresol) 2-NITROANILINE 2-NITROPHENOL 3/4-Methylphenol [m/p-Cresol] 4,6-DINITRO-2-METHYLPHENOL 4-CHLORO-3-METHYLPHENOL 4-Chloroaniline [p-Chloroaniline] 4-NITROPHENOL BENZOIC ACID BENZYL ALCOHOL bis(2-chloroethoxy) methane BIS(2-CHLOROETHYL) ETHER BIS(2-CHLOROISOPROPYL)ETH DIBENZOFURAN DI-N-OCTYL PHTHALATE HEXACHLOROBUTADIENE HEXACHLOROETHANE ISOPHORONE NITROBENZENE N-NITROSODIMETHYLAMINE N-Nitrosodi-n-propylamine N-NITROSODIPHENYLAMINE PENTACHLOROPHENOL PHENOL	

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
							J (all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H2-SS02-02MS H2-SS02-02MSD (H2-SS02-02)	2,6-DINITROTOLUENE 3-NITROANILINE 4-BROMOPHENYL PHENYL ETHEI 4-CHLOROPHENYL PHENYL ETHE 4-NITROANILINE BIS(2-ETHYLHEXYL) PHTHALATE Butyl benzyl phthalate CARBAZOLE DIETHYL PHTHALATE DIMETHYL PHTHALATE DI-N-BUTYL PHTHALATE HEXACHLOROBENZENE	- - - - 40.4 - - - - - - -	44.4 29.6 44.5 44.7 30.5 44.2 43.5 46.9 43.1 42 42.4 44.3	46.00-124.00 33.00-119.00 46.00-124.00 45.00-121.00 50.00-130.00 51.00-133.00 48.00-132.00 50.00-123.00 50.00-124.00 48.00-124.00 51.00-128.00 45.00-122.00	52.89 (25.00) 33.33 (25.00) 46.75 (25.00) 49.85 (25.00) 28.54 (25.00) 52.16 (25.00) 53.06 (25.00) 46.13 (25.00) 49.25 (25.00) 48.97 (25.00) 47.48 (25.00) 46.8 (25.00)	2,6-DINITROTOLUENE 3-NITROANILINE 4-BROMOPHENYL PHENYL ETH 4-CHLOROPHENYL PHENYL ETH 4-NITROANILINE BIS(2-ETHYLHEXYL) PHTHALATI Butyl benzyl phthalate CARBAZOLE DIETHYL PHTHALATE DIMETHYL PHTHALATE DI-N-BUTYL PHTHALATE HEXACHLOROBENZENE	J(all detects) UJ(all non-detects)
H2-SS02-02MS H2-SS02-02MSD (H2-SS02-02)	3,3'-DICHLOROBENZIDINE	0	0	22.00-121.00	-	3,3'-DICHLOROBENZIDINE	J-(all detects) UJ(all non-detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H2-SS02-02MSD (H2-SS02-02)	BENZ(A)ANTHRACENE BENZO(A)PYRENE BENZO(K)FLUORANTHENE CHRYSENE PYRENE	- - - - -	200 141 142 152 232	54.00-122.00 50.00-125.00 56.00-123.00 57.00-118.00 55.00-117.00	49.49 (25.00) 36.79 (25.00) 41.37 (25.00) 32.43 (25.00) 56.18 (25.00)	BENZ(A)ANTHRACENE BENZO(A)PYRENE BENZO(K)FLUORANTHENE CHRYSENE PYRENE	J(all detects)
H2-SS02-02MS H2-SS02-02MSD (H2-SS02-02)	DIBENZO(A,H)ANTHRACENE FLUORANTHENE	- 52.5	8.49 245	50.00-129.00 55.00-119.00	156.89 (25.00) 58.11 (25.00)	DIBENZO(A,H)ANTHRACENE FLUORANTHENE	J(all detects) UJ(all non-detects)
H2-SS02-02MS (H2-SS02-02)	INDENO(1,2,3-CD)PYRENE	41	-	49.00-130.00	-	INDENO(1,2,3-CD)PYRENE	J-(all detects) UJ(all non-detects)
H2-SS02-02MS H2-SS02-02MSD (H2-SS02-02)	1-METHYLNAPHTHALENE ANTHRACENE BENZO(B)FLUORANTHENE PHENANTHRENE	115 - - -	117 121 175 124	43.00-111.00 50.00-114.00 53.00-128.00 49.00-113.00	- - - -	1-METHYLNAPHTHALENE ANTHRACENE BENZO(B)FLUORANTHENE PHENANTHRENE	J+(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H2-SS02-02MS (Dry) H2-SS02-02MSD (Dry) (H2-SS02-02)	ALUMINUM	16900	14300	74.00-119.00	-	ALUMINUM	J+(all detects)
	BARIUM	152	134	83.00-113.00	-	BARIUM	
	CALCIUM	229	181	81.00-116.00	-	CALCIUM	
	CHROMIUM	117	123	85.00-113.00	-	CHROMIUM	
	COPPER	162	146	81.00-117.00	-	COPPER	
	IRON	1820	1250	81.00-118.00	-	IRON	
	MAGNESIUM	453	289	78.00-115.00	-	MAGNESIUM	
	MANGANESE	414	303	84.00-114.00	-	MANGANESE	
	POTASSIUM	328	244	81.00-116.00	-	POTASSIUM	
	SODIUM	129	122	83.00-118.00	-	SODIUM	
	VANADIUM	123	120	82.00-114.00	-	VANADIUM	
	ZINC	214	208	82.00-113.00	-	ZINC	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40244 (H1-SS01-01 H1-SS01-02 H1-SS02-01 H1-SS02-02 H2-SS01-01 H2-SS01-02 H2-SS02-01 H2-SS02-02)	BENZOIC ACID	0	-	40.00-117.00	-	BENZOIC ACID	J- (all detects) UJ (all non-detects)

Method: **8270D SIM**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40280 (H1-SS01-01 H1-SS01-02 H1-SS02-01 H1-SS02-02 H2-SS01-01 H2-SS01-02 H2-SS02-01 H2-SS02-02)	1-METHYLNAPHTHALENE	115	-	43.00-111.00	-	1-METHYLNAPHTHALENE	J+(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H1-SS01-01	ANTIMONY	J	0.78	0.97	LOQ	mg/Kg	J (all detects)
	ARSENIC	J	0.90	1.9	LOQ	mg/Kg	
	BERYLLIUM	J	0.063	0.24	LOQ	mg/Kg	
	CADMIUM	J	0.066	0.24	LOQ	mg/Kg	
	COBALT	J	0.78	0.97	LOQ	mg/Kg	
	LEAD	J	2.5	4.8	LOQ	mg/Kg	
	NICKEL	J	2.4	4.8	LOQ	mg/Kg	
H1-SS01-02	BERYLLIUM	J	0.025	0.22	LOQ	mg/Kg	J (all detects)
	CADMIUM	J	0.045	0.22	LOQ	mg/Kg	
	LEAD	J	2.9	4.4	LOQ	mg/Kg	
	NICKEL	J	2.4	4.4	LOQ	mg/Kg	
H1-SS02-01	ARSENIC	J	0.86	1.8	LOQ	mg/Kg	J (all detects)
	LEAD	J	3.6	4.5	LOQ	mg/Kg	
	NICKEL	J	2.8	4.5	LOQ	mg/Kg	
	SILVER	J	0.63	0.90	LOQ	mg/Kg	
H1-SS02-02	LEAD	J	3.3	3.9	LOQ	mg/Kg	J (all detects)
	SILVER	J	0.31	0.77	LOQ	mg/Kg	
H2-SS01-01	ARSENIC	J	1.1	1.5	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.083	0.18	LOQ	mg/Kg	
	CADMIUM	J	0.13	0.18	LOQ	mg/Kg	
H2-SS01-02	ARSENIC	J	0.84	1.5	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.080	0.18	LOQ	mg/Kg	
	CADMIUM	J	0.090	0.18	LOQ	mg/Kg	
H2-SS02-01	BERYLLIUM	J	0.14	0.19	LOQ	mg/Kg	J (all detects)
	CADMIUM	J	0.16	0.19	LOQ	mg/Kg	
H2-SS02-02	CADMIUM	J	0.14	0.19	LOQ	mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H1-SS01-01	THALLIUM	J	0.068	0.19	LOQ	mg/Kg	J (all detects)
H1-SS01-02	THALLIUM	J	0.050	0.18	LOQ	mg/Kg	J (all detects)
H1-SS02-02	THALLIUM	JG	0.057	0.16	LOQ	mg/Kg	J (all detects)
H2-SS01-01	THALLIUM	J	0.082	0.14	LOQ	mg/Kg	J (all detects)
H2-SS01-02	THALLIUM	J	0.078	0.15	LOQ	mg/Kg	J (all detects)
H2-SS02-01	THALLIUM	J	0.12	0.15	LOQ	mg/Kg	J (all detects)
H2-SS02-02	THALLIUM	JG	0.13	0.16	LOQ	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606601 **Laboratory: RTILABS**

EDD Filename: EDD_1606601_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
H1-SS01-01	BENZOIC ACID	JQ	0.30	1.4	LOQ	mg/Kg	J (all detects)
H1-SS01-02	BENZOIC ACID	JQ	0.24	1.3	LOQ	mg/Kg	J (all detects)
H1-SS02-01	BENZOIC ACID	JQ	0.28	1.4	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606603		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	8 soil samples for a project-specific list of SVOCs STAR, SVOCs, PCBs, lead, and metals		
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA		
Completed:	August 29, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606603. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✓ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606603 **Laboratory: RTILABS**

EDD Filename: EDD_1606603_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: WDS-SB20-06 **Collected:** 6/15/2016 9:15:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.027	J	0.040	LOD	0.20	LOQ	mg/Kg	J	Rl
LEAD	3.9	J	0.79	LOD	4.0	LOQ	mg/Kg	J	Rl

Method Category: METALS

Method: 6010C-STAR **Matrix: Soil**

Sample ID: 2010-SB01-04 **Collected:** 6/15/2016 9:00:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.5	J	0.76	LOD	3.8	LOQ	mg/Kg	J	Rl

Sample ID: 2010-SB02-05 **Collected:** 6/15/2016 8:45:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	6.2		0.84	LOD	4.2	LOQ	mg/Kg	J	Fd

Sample ID: 2010-SB02-05 DUP **Collected:** 6/15/2016 8:45:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	16		0.82	LOD	4.1	LOQ	mg/Kg	J	Fd

Method Category: SVOA

Method: 8270D-MOD **Matrix: Soil**

Sample ID: WDS-SB20-06 **Collected:** 6/15/2016 9:15:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	0.039	U	0.039	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2,4,6-TRICHLOROPHENOL	0.039	U	0.039	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2,4-DICHLOROPHENOL	0.098	U	0.098	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2,4-Dimethyl phenol	0.098	U	0.098	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2,4-DINITROPHENOL	0.20	U	0.20	LOD	0.97	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606603 **Laboratory: RTILABS**

EDD Filename: EDD_1606603_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: WDS-SB20-06 **Collected:** 6/15/2016 9:15:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-CHLOROPHENOL	0.098	U	0.098	LOD	0.19	LOQ	mg/Kg	UJ	Surr
2-NITROPHENOL	0.098	U	0.098	LOD	0.19	LOQ	mg/Kg	UJ	Surr
4,6-DINITRO-2-METHYLPHENOL	0.098	U	0.098	LOD	0.38	LOQ	mg/Kg	UJ	Surr
4-CHLORO-3-METHYLPHENOL	0.039	U	0.039	LOD	0.19	LOQ	mg/Kg	UJ	Surr
4-NITROPHENOL	0.39	U	0.39	LOD	0.97	LOQ	mg/Kg	UJ	Surr
BENZOIC ACID	0.39	UY	0.39	LOD	1.2	LOQ	mg/Kg	UJ	Lcs, Surr
PENTACHLOROPHENOL	0.098	UY	0.098	LOD	0.19	LOQ	mg/Kg	UJ	Surr
PHENOL	0.098	U	0.098	LOD	0.19	LOQ	mg/Kg	UJ	Surr

Method Category: SVOA

Method: 8270D-SIM-STAR **Matrix:** Soil

Sample ID: STB-SB02-06 **Collected:** 6/15/2016 9:37:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.0050		0.00080	LOD	0.00080	LOQ	mg/Kg	J+	Surr
BENZO(A)PYRENE	0.0048		0.00080	LOD	0.00080	LOQ	mg/Kg	J+	Surr
BENZO(B)FLUORANTHENE	0.0083		0.00080	LOD	0.00080	LOQ	mg/Kg	J+	Surr
BENZO(G,H,I)PERYLENE	0.0036		0.00080	LOD	0.00080	LOQ	mg/Kg	J+	Surr
BENZO(K)FLUORANTHENE	0.0028		0.00080	LOD	0.00080	LOQ	mg/Kg	J+	Surr
CHRYSENE	0.0060		0.00080	LOD	0.00080	LOQ	mg/Kg	J+	Surr
FLUORANTHENE	0.014		0.00080	LOD	0.00080	LOQ	mg/Kg	J+	Surr
INDENO(1,2,3-CD)PYRENE	0.0036		0.00080	LOD	0.00080	LOQ	mg/Kg	J+	Surr
PHENANTHRENE	0.0060		0.00080	LOD	0.00080	LOQ	mg/Kg	J+	Surr
PYRENE	0.010		0.00080	LOD	0.00080	LOQ	mg/Kg	J+	Surr

Sample ID: STB-SB04-06 **Collected:** 6/15/2016 10:05:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.00077	U	0.00077	LOD	0.00077	LOQ	mg/Kg	UJ	Fd
BENZ(A)ANTHRACENE	0.0014		0.00077	LOD	0.00077	LOQ	mg/Kg	J	Fd
BENZO(A)PYRENE	0.0011		0.00077	LOD	0.00077	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606603 **Laboratory: RTILABS**

EDD Filename: EDD_1606603_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-SIM-STAR** ***Matrix:*** **Soil**

Sample ID: **STB-SB04-06** ***Collected:*** **6/15/2016 10:05:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BENZO(B)FLUORANTHENE	0.0023		0.00077	LOD	0.00077	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.00077	U	0.00077	LOD	0.00077	LOQ	mg/Kg	UJ	Fd
BENZO(K)FLUORANTHENE	0.00083		0.00077	LOD	0.00077	LOQ	mg/Kg	J	Fd
CHRYSENE	0.0016		0.00077	LOD	0.00077	LOQ	mg/Kg	J	Fd
FLUORANTHENE	0.0035		0.00077	LOD	0.00077	LOQ	mg/Kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.00077	U	0.00077	LOD	0.00077	LOQ	mg/Kg	UJ	Fd
PHENANTHRENE	0.0018		0.00077	LOD	0.00077	LOQ	mg/Kg	J	Fd
PYRENE	0.0030		0.00077	LOD	0.00077	LOQ	mg/Kg	J	Fd

Sample ID: **STB-SB04-06 DUP** ***Collected:*** **6/15/2016 10:05:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ACENAPHTHENE	0.00076	U	0.00076	LOD	0.00076	LOQ	mg/Kg	UJ	Surr
ACENAPHTHYLENE	0.00076	U	0.00076	LOD	0.00076	LOQ	mg/Kg	UJ	Surr
ANTHRACENE	0.0023		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd
BENZ(A)ANTHRACENE	0.010		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd
BENZO(A)PYRENE	0.0067		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd
BENZO(B)FLUORANTHENE	0.010		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd
BENZO(G,H,I)PERYLENE	0.0036		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd
BENZO(K)FLUORANTHENE	0.0029		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd
CHRYSENE	0.0085		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd
DIBENZO(A,H)ANTHRACENE	0.00076	U	0.00076	LOD	0.00076	LOQ	mg/Kg	UJ	Surr
FLUORANTHENE	0.022		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd
FLUORENE	0.00076	U	0.00076	LOD	0.00076	LOQ	mg/Kg	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.0036		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd
PHENANTHRENE	0.0083		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd
PYRENE	0.017		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Surr, Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606603 **Laboratory: RTILABS**

EDD Filename: EDD_1606603_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606603 **Laboratory: RTILABS**

EDD Filename: EDD_1606603_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	A
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606603 **Laboratory: RTILABS**

EDD Filename: EDD_1606603_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40481	8/4/2016 11:23:38 AM	MANGANESE	0.37 mg/Kg	WDS-SB20-06

Surrogate Outlier Report

Lab Reporting Batch ID: 1606603 **Laboratory: RTILABS**

EDD Filename: EDD_1606603_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
WDS-SB20-06 (Initial)	2,4,6-TRIBROMOPHENOL 2-FLUOROPHENOL Terphenyl-d14	32.7 34.9 53.1	39.00-132.00 35.00-115.00 54.00-127.00	All Acid Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D-SIM-STAR
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
STB-SB02-06 (Initial)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	122 140 135	46.00-115.00 44.00-125.00 58.00-133.00	All Base/Neutral Target Analytes	J+ (all detects)
STB-SB04-06 DUP (Initial)	Terphenyl-d14	57.6	58.00-133.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606603 **Laboratory: RTILABS**

EDD Filename: EDD_1606603_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40244 (WDS-SB20-06)	BENZOIC ACID	0	-	40.00-117.00	-	BENZOIC ACID	J- (all detects) UJ (all non-detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40280 (STB-SB01-05 STB-SB02-06 STB-SB03-06 STB-SB04-06 STB-SB04-06 DUP STB-SS05-01 STB-SS06-01 STB-SS07-01 WDS-SB20-06)	1-METHYLNAPHTHALENE	115	-	43.00-111.00	-	1-METHYLNAPHTHALENE	J+(all detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project:

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606603 **Laboratory: RTILABS**

EDD Filename: EDD_1606603_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C-STAR
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	2010-SB02-05 (Dry)	2010-SB02-05 DUP (Dry)			
LEAD	6.2	16	88	50.00	J (all detects) UJ (all non-detects)

Method: 8270D-SIM-STAR
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	STB-SB04-06	STB-SB04-06 DUP			
ANTHRACENE	0.00077 U	0.0023	200	50.00	J(all detects) UJ(all non-detects)
BENZ(A)ANTHRACENE	0.0014	0.010	151	50.00	
BENZO(A)PYRENE	0.0011	0.0067	144	50.00	
BENZO(B)FLUORANTHENE	0.0023	0.010	125	50.00	
BENZO(G,H,I)PERYLENE	0.00077 U	0.0036	200	50.00	
BENZO(K)FLUORANTHENE	0.00083	0.0029	111	50.00	
CHRYSENE	0.0016	0.0085	137	50.00	
FLUORANTHENE	0.0035	0.022	145	50.00	
INDENO(1,2,3-CD)PYRENE	0.00077 U	0.0036	200	50.00	
PHENANTHRENE	0.0018	0.0083	129	50.00	
PYRENE	0.0030	0.017	140	50.00	

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606603 **Laboratory: RTILABS**

EDD Filename: EDD_1606603_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
WDS-SB20-06	CADMIUM LEAD	J J	0.027 3.9	0.20 4.0	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Method: 6010C-STAR

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
2010-SB01-04	LEAD	J	3.5	3.8	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606605		
Date(s) of Collection:	June 15th, 2016		
Number/Type Samples & Analyses:	16 soil samples for a project-specific list of SVOCs by SIM and metals		
Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 26th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606605. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: BG04-SB01-05 **Collected:** 6/15/2016 11:40:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	4.0	J	0.81	LOD	4.1	LOQ	mg/Kg	J	RI

Sample ID: BG04-SB01-10 **Collected:** 6/15/2016 11:45:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.18	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.067	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: BG04-SB02-05 **Collected:** 6/15/2016 12:20:00 PM **Analysis Type:** Dilution-1 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MAGNESIUM	2500		38	LOD	380	LOQ	mg/Kg	J+	Ms

Sample ID: BG04-SB02-05 **Collected:** 6/15/2016 12:20:00 PM **Analysis Type:** Dilution-2 **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	17000		150	LOD	380	LOQ	mg/Kg	J+	Ms
IRON	19000		380	LOD	1100	LOQ	mg/Kg	J+	Ms

Sample ID: BG04-SB02-05 **Collected:** 6/15/2016 12:20:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	38	X	3.8	LOD	7.5	LOQ	mg/Kg	J+	Ms
BERYLLIUM	0.17	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.063	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI
CALCIUM	620	X	7.5	LOD	38	LOQ	mg/Kg	J+	Ms
COPPER	38	X	0.75	LOD	3.8	LOQ	mg/Kg	J+	Ms
MANGANESE	160	X	0.19	LOD	0.75	LOQ	mg/Kg	J+	Ms
NICKEL	10	X	0.75	LOD	3.8	LOQ	mg/Kg	J+	Ms
POTASSIUM	1100	X	7.5	LOD	15	LOQ	mg/Kg	J+	Ms
SELENIUM	1.1	UX	1.1	LOD	1.5	LOQ	mg/Kg	UJ	Ms, Ms
SODIUM	91	X	3.8	LOD	38	LOQ	mg/Kg	J+	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: BG04-SB02-05 **Collected:** 6/15/2016 12:20:00 PM **Analysis Type:** Reanalysis-1 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	19	X	0.30	LOD	0.38	LOQ	mg/Kg	J+	Ms
ZINC	28	X	0.38	LOD	3.8	LOQ	mg/Kg	J+	Ms

Sample ID: BG04-SB02-10 **Collected:** 6/15/2016 12:25:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.070	J	0.039	LOD	0.20	LOQ	mg/Kg	J	Rl

Sample ID: BG04-SB03-05 **Collected:** 6/15/2016 12:05:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.060	J	0.039	LOD	0.20	LOQ	mg/Kg	J	Rl

Sample ID: BG04-SB03-10 **Collected:** 6/15/2016 12:10:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.099	J	0.039	LOD	0.19	LOQ	mg/Kg	J	Rl
CADMIUM	0.036	J	0.039	LOD	0.19	LOQ	mg/Kg	J	Rl

Sample ID: BG04-SB04-05 **Collected:** 6/15/2016 11:15:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.037	U	0.037	LOD	0.19	LOQ	mg/Kg	UJ	Fd
CADMIUM	0.032	J	0.037	LOD	0.19	LOQ	mg/Kg	J	Rl

Sample ID: BG04-SB04-05 DUP **Collected:** 6/15/2016 11:15:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.039	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl, Fd
CADMIUM	0.037	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl
LEAD	3.4	J	0.75	LOD	3.8	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **BG04-SB04-10** ***Collected:*** **6/15/2016 11:20:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.74	J	0.70	LOD	1.4	LOQ	mg/Kg	J	Rl
BERYLLIUM	0.063	J	0.035	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	0.87	J	0.70	LOD	3.5	LOQ	mg/Kg	J	Rl
NICKEL	2.2	J	0.70	LOD	3.5	LOQ	mg/Kg	J	Rl

Sample ID: **BG04-SB04-10** ***Collected:*** **6/15/2016 11:20:00 AM** ***Analysis Type:*** **Reanalysis-1** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	5.2		0.35	LOD	3.5	LOQ	mg/Kg	U	Mb

Sample ID: **BG04-SS01-01** ***Collected:*** **6/15/2016 11:35:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.19	J	0.040	LOD	0.20	LOQ	mg/Kg	J	Rl
CADMIUM	0.046	J	0.040	LOD	0.20	LOQ	mg/Kg	J	Rl

Sample ID: **BG04-SS02-01** ***Collected:*** **6/15/2016 12:15:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.086	J	0.039	LOD	0.20	LOQ	mg/Kg	J	Rl
CADMIUM	0.031	J	0.039	LOD	0.20	LOQ	mg/Kg	J	Rl

Sample ID: **BG04-SS03-01** ***Collected:*** **6/15/2016 12:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.034	J	0.041	LOD	0.20	LOQ	mg/Kg	J	Rl

Sample ID: **BG04-SS04-01** ***Collected:*** **6/15/2016 11:10:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.18	J	0.040	LOD	0.20	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: BG04-SS06-01 **Collected:** 6/15/2016 11:25:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.17	J	0.042	LOD	0.21	LOQ	mg/Kg	J	RI
CADMIUM	0.059	J	0.042	LOD	0.21	LOQ	mg/Kg	J	RI

Sample ID: BG04-SS07-01 **Collected:** 6/15/2016 11:55:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.14	J	0.042	LOD	0.21	LOQ	mg/Kg	J	RI
CADMIUM	0.091	J	0.042	LOD	0.21	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: BG04-SB01-05 **Collected:** 6/15/2016 11:40:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.14	J	0.040	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: BG04-SB02-05 **Collected:** 6/15/2016 12:20:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.096	J	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: BG04-SB04-05 **Collected:** 6/15/2016 11:15:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.11	J	0.039	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: BG04-SB04-05 DUP **Collected:** 6/15/2016 11:15:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.081	J	0.036	LOD	0.15	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A-TL** ***Matrix:*** **Soil**

Sample ID: **BG04-SB04-10** ***Collected:*** **6/15/2016 11:20:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.053	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: **BG04-SS01-01** ***Collected:*** **6/15/2016 11:35:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.12	J	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: **BG04-SS02-01** ***Collected:*** **6/15/2016 12:15:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.15	J	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: **BG04-SS03-01** ***Collected:*** **6/15/2016 12:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.11	J	0.041	LOD	0.17	LOQ	mg/Kg	J	RI

Sample ID: **BG04-SS04-01** ***Collected:*** **6/15/2016 11:10:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.12	J	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: **BG04-SS05-01** ***Collected:*** **6/15/2016 11:20:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.13	J	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: **BG04-SS06-01** ***Collected:*** **6/15/2016 11:25:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.11	J	0.042	LOD	0.17	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A-TL** ***Matrix:*** **Soil**

Sample ID: **BG04-SS07-01** ***Collected:*** **6/15/2016 11:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
THALLIUM	0.098	J	0.043	LOD	0.17	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40430	7/29/2016 11:36:37 AM	COPPER ZINC	0.77 mg/Kg 1.4 mg/Kg	BG04-SB04-10 BG04-SS01-01 BG04-SS02-01 BG04-SS03-01 BG04-SS04-01 BG04-SS05-01 BG04-SS06-01 BG04-SS07-01

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
BG04-SB04-10(Reanalysis-1)	ZINC	5.2 mg/Kg	5.2U mg/Kg

Surrogate Outlier Report

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D SIM**
Matrix: **Soil**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
BG04-SS05-01 (Initial)	Terphenyl-d14	57.3	58.00-133.00	All Base/Neutral Target Analytes	J- (all detects) UJ (all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
BG04-SB02-05MS BG04-SB02-05MSD (BG04-SB02-05)	1-METHYLNAPHTHALENE	129	216	43.00-111.00	50.5 (25.00)	1-METHYLNAPHTHALENE	J (all detects)

Method: 6010C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
BG04-SB02-05MS (Dry) BG04-SB02-05MSD (Dry) (BG04-SB02-05)	SELENIUM	67.5	52.8	78.00-111.00	25.16 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
BG04-SB02-05MS (Dry) BG04-SB02-05MSD (Dry) (BG04-SB02-05)	ALUMINUM BARIUM CALCIUM CHROMIUM COPPER IRON MAGNESIUM MANGANESE NICKEL POTASSIUM SODIUM ZINC	9960 - 218 116 171 589 207 186 126 158 120 205	16700 125 155 - 163 1210 - - - - - 154	74.00-119.00 83.00-113.00 81.00-116.00 85.00-113.00 81.00-117.00 81.00-118.00 78.00-115.00 84.00-114.00 83.00-113.00 81.00-116.00 83.00-118.00 82.00-113.00	- - - - - - - - - - - -	ALUMINUM BARIUM CALCIUM CHROMIUM COPPER IRON MAGNESIUM MANGANESE NICKEL POTASSIUM SODIUM ZINC	J+(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D SIM**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCS-40290 (BG04-SB01-05 BG04-SB01-10 BG04-SB02-05 BG04-SB02-10 BG04-SB03-05 BG04-SB03-10 BG04-SB04-05 BG04-SB04-05 DUP BG04-SB04-10 BG04-SS01-01 BG04-SS02-01 BG04-SS03-01 BG04-SS04-01 BG04-SS05-01)	1-METHYLNAPHTHALENE	138	-	43.00-111.00	-	1-METHYLNAPHTHALENE	J+ (all detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

Analyte	*Concentration (mg/Kg)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	BG04-SB04-05 (Dry)	BG04-SB04-05 DUP (Dry)			
BERYLLIUM	0.19 U	0.039	200	50.00	J (all detects) UJ (all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BG04-SB01-05	LEAD	J	4.0	4.1	LOQ	mg/Kg	J (all detects)
BG04-SB01-10	BERYLLIUM CADMIUM	J J	0.18 0.067	0.19 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG04-SB02-05	BERYLLIUM CADMIUM	J J	0.17 0.063	0.19 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG04-SB02-10	CADMIUM	J	0.070	0.20	LOQ	mg/Kg	J (all detects)
BG04-SB03-05	CADMIUM	J	0.060	0.20	LOQ	mg/Kg	J (all detects)
BG04-SB03-10	BERYLLIUM CADMIUM	J J	0.099 0.036	0.19 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG04-SB04-05	CADMIUM	J	0.032	0.19	LOQ	mg/Kg	J (all detects)
BG04-SB04-05 DUP	BERYLLIUM CADMIUM LEAD	J J J	0.039 0.037 3.4	0.19 0.19 3.8	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
BG04-SB04-10	ARSENIC BERYLLIUM LEAD NICKEL	J J J J	0.74 0.063 0.87 2.2	1.4 0.18 3.5 3.5	LOQ LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg mg/Kg	J (all detects)
BG04-SS01-01	BERYLLIUM CADMIUM	J J	0.19 0.046	0.20 0.20	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG04-SS02-01	BERYLLIUM CADMIUM	J J	0.086 0.031	0.20 0.20	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG04-SS03-01	CADMIUM	J	0.034	0.20	LOQ	mg/Kg	J (all detects)
BG04-SS04-01	BERYLLIUM	J	0.18	0.20	LOQ	mg/Kg	J (all detects)
BG04-SS06-01	BERYLLIUM CADMIUM	J J	0.17 0.059	0.21 0.21	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
BG04-SS07-01	BERYLLIUM CADMIUM	J J	0.14 0.091	0.21 0.21	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BG04-SB01-05	THALLIUM	J	0.14	0.16	LOQ	mg/Kg	J (all detects)
BG04-SB02-05	THALLIUM	J	0.096	0.16	LOQ	mg/Kg	J (all detects)
BG04-SB04-05	THALLIUM	J	0.11	0.15	LOQ	mg/Kg	J (all detects)
BG04-SB04-05 DUP	THALLIUM	J	0.081	0.15	LOQ	mg/Kg	J (all detects)
BG04-SB04-10	THALLIUM	J	0.053	0.14	LOQ	mg/Kg	J (all detects)
BG04-SS01-01	THALLIUM	J	0.12	0.16	LOQ	mg/Kg	J (all detects)
BG04-SS02-01	THALLIUM	J	0.15	0.16	LOQ	mg/Kg	J (all detects)
BG04-SS03-01	THALLIUM	J	0.11	0.17	LOQ	mg/Kg	J (all detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606605 **Laboratory: RTILABS**

EDD Filename: EDD_1606605_SEDD_2a_v1_rev **eQAPP Name: Former_Camp_Hero**

Method: **6020A-TL**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
BG04-SS04-01	THALLIUM	J	0.12	0.15	LOQ	mg/Kg	J (all detects)
BG04-SS05-01	THALLIUM	J	0.13	0.16	LOQ	mg/Kg	J (all detects)
BG04-SS06-01	THALLIUM	J	0.11	0.17	LOQ	mg/Kg	J (all detects)
BG04-SS07-01	THALLIUM	J	0.098	0.17	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606606		
Date(s) of Collection:	June 15th, 2016		
Number/Type Samples & Analyses:	16 soil samples for a project-specific list of PAHs and metals		
Data Reviewer:	Zach Neigh AECOM/Baltimore, MD		
Completed:	August 31, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606606. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✓ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✓ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606606 **Laboratory: RTILABS**

EDD Filename: EDD_1606606_SEDD_2a_v2_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: H15-SB01-25 **Collected:** 6/15/2016 3:30:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.0	J	0.70	LOD	1.4	LOQ	mg/Kg	J	Rl
BERYLLIUM	0.046	J	0.035	LOD	0.17	LOQ	mg/Kg	J	Rl
CADMIUM	0.025	J	0.035	LOD	0.17	LOQ	mg/Kg	J	Rl
LEAD	1.9	J	0.70	LOD	3.5	LOQ	mg/Kg	J	Rl

Sample ID: H15-SB02-22 **Collected:** 6/15/2016 2:15:00 PM **Analysis Type:** Dilution-1 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	12000	X	36	LOD	110	LOQ	mg/Kg	J-	Ms
MAGNESIUM	2400	X	36	LOD	360	LOQ	mg/Kg	J-	Ms

Sample ID: H15-SB02-22 **Collected:** 6/15/2016 2:15:00 PM **Analysis Type:** Dilution-2 **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	8600		140	LOD	360	LOQ	mg/Kg	J+	Ms

Sample ID: H15-SB02-22 **Collected:** 6/15/2016 2:15:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.072	J	0.036	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	2.6	J	0.72	LOD	3.6	LOQ	mg/Kg	J	Rl
MANGANESE	170		0.18	LOD	0.72	LOQ	mg/Kg	J-	Ms
POTASSIUM	1500		7.2	LOD	14	LOQ	mg/Kg	J+	Ms
SELENIUM	1.1	U	1.1	LOD	1.4	LOQ	mg/Kg	UJ	Ms
ZINC	17		0.36	LOD	3.6	LOQ	mg/Kg	J-	Ms

Sample ID: H15-SB03-18 **Collected:** 6/15/2016 1:45:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.033	J	0.035	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	2.5	J	0.71	LOD	3.5	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606606 **Laboratory: RTILABS**

EDD Filename: EDD_1606606_SEDD_2a_v2_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: H15-SS01-01 **Collected:** 6/15/2016 3:25:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.3	J	0.75	LOD	1.5	LOQ	mg/Kg	J	RI

Sample ID: H15-SS02-01 **Collected:** 6/15/2016 2:10:00 PM **Analysis Type:** Initial2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.17	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.049	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: H15-SS03-01 **Collected:** 6/15/2016 1:40:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.11	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.038	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H15-SB01-25 **Collected:** 6/15/2016 3:30:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.076	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: H15-SB03-18 **Collected:** 6/15/2016 1:45:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.11	J	0.036	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: H15-SS01-01 **Collected:** 6/15/2016 3:25:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.070	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606606 **Laboratory: RTILABS**

EDD Filename: EDD_1606606_SEDD_2a_v2_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H15-SS03-01 **Collected:** 6/15/2016 1:40:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.065	J	0.035	LOD	0.14	LOQ	mg/Kg	J	Rl

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: H15-SS01-01 **Collected:** 6/15/2016 3:25:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0024	Y	0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
2-METHYLNAPHTHALENE	0.0026		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
ACENAPHTHENE	0.00076	U	0.00076	LOD	0.00076	LOQ	mg/Kg	UJ	Surr
ACENAPHTHYLENE	0.00076	U	0.00076	LOD	0.00076	LOQ	mg/Kg	UJ	Surr
ANTHRACENE	0.00076	U	0.00076	LOD	0.00076	LOQ	mg/Kg	UJ	Surr
BENZ(A)ANTHRACENE	0.0039		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
BENZO(A)PYRENE	0.0041		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
BENZO(B)FLUORANTHENE	0.0062		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
BENZO(G,H,I)PERYLENE	0.0028		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
BENZO(K)FLUORANTHENE	0.0029		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
CHRYSENE	0.0045		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
DIBENZO(A,H)ANTHRACENE	0.00076	U	0.00076	LOD	0.00076	LOQ	mg/Kg	UJ	Surr
FLUORANTHENE	0.0092		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
FLUORENE	0.00076	U	0.00076	LOD	0.00076	LOQ	mg/Kg	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.0028		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
NAPHTHALENE	0.0020		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
PHENANTHRENE	0.0042		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr
PYRENE	0.0078		0.00076	LOD	0.00076	LOQ	mg/Kg	J-	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606606 **Laboratory: RTILABS**

EDD Filename: EDD_1606606_SEDD_2a_v2_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Upper Estimation
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606606 **Laboratory: RTILABS**

EDD Filename: EDD_1606606_SEDD_2a_v2_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	A
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606606 **Laboratory: RTILABS**

EDD Filename: EDD_1606606_SEDD_2a_v2_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40481	8/4/2016 11:23:38 AM	MANGANESE	0.37 mg/Kg	H15-SB03-18

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project:

Surrogate Outlier Report

Lab Reporting Batch ID: 1606606 **Laboratory: RTILABS**

EDD Filename: EDD_1606606_SEDD_2a_v2_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D SIM**
Matrix: **Soil**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
H15-SS01-01 (Initial)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	27 29.1 28.6	46.00-115.00 44.00-125.00 58.00-133.00	All Base/Neutral Target Analytes	J- (all detects) UJ (all non-detects)
H15-SS02-01 (Initial)	Terphenyl-d14	52.1	58.00-133.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606606 **Laboratory: RTILABS**

EDD Filename: EDD_1606606_SEDD_2a_v2_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H15-SB02-22MS (Dry) H15-SB02-22MSD (Dry) (H15-SB02-22)	IRON MAGNESIUM MANGANESE SELENIUM ZINC	55.7 - 50.8 73 78.5	-230 36.5 81.1 - 76	81.00-118.00 78.00-115.00 84.00-114.00 78.00-111.00 82.00-113.00	- - - - -	IRON MAGNESIUM MANGANESE SELENIUM ZINC	J- (all detects) UJ (all non-detects)
H15-SB02-22MS (Dry) H15-SB02-22MSD (Dry) (H15-SB02-22)	ALUMINUM POTASSIUM	4700 135	1420 -	74.00-119.00 81.00-116.00	- -	ALUMINUM POTASSIUM	J+(all detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: USACE Project:

Reporting Limit Outliers

Lab Reporting Batch ID: 1606606 **Laboratory: RTILABS**

EDD Filename: EDD_1606606_SEDD_2a_v2_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H15-SB01-25	ARSENIC BERYLLIUM CADMIUM LEAD	J J J J	1.0 0.046 0.025 1.9	1.4 0.17 0.17 3.5	LOQ LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg mg/Kg	J (all detects)
H15-SB02-22	BERYLLIUM LEAD	J J	0.072 2.6	0.18 3.6	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H15-SB03-18	CADMIUM LEAD	J J	0.033 2.5	0.18 3.5	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H15-SS01-01	ARSENIC	J	1.3	1.5	LOQ	mg/Kg	J (all detects)
H15-SS02-01	BERYLLIUM CADMIUM	J J	0.17 0.049	0.18 0.18	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H15-SS03-01	BERYLLIUM CADMIUM	J J	0.11 0.038	0.18 0.18	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H15-SB01-25	THALLIUM	J	0.076	0.14	LOQ	mg/Kg	J (all detects)
H15-SB03-18	THALLIUM	J	0.11	0.14	LOQ	mg/Kg	J (all detects)
H15-SS01-01	THALLIUM	J	0.070	0.15	LOQ	mg/Kg	J (all detects)
H15-SS03-01	THALLIUM	J	0.065	0.14	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606652		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	17 soil samples and 1 trip blank for a project-specific list of VOCs, SVOCs, PAHs, PCBs, and metals		
Data Reviewer:	Zach Neigh AECOM/Baltimore, MD		
Completed:	August 30, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606652. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Fin al *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✓ Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

Sample 203-SB05-21 was analyzed by both 8260C and 8260C-ME methodologies due to some high concentrations during the 8260C analysis of three analytes; the three analytes are benzene, ethylbenzene, and xylenes (total). The result that are not being used for each method were manually qualified using 'NP' for not preferred.

Samples 203-SB05-05 and H17-SB01-05 for 1-Methylnaphthalene are considered estimated. (exceeded calibration and re-analyses was not performed)

The following table defines the data qualifiers assigned by ADR and/or during manual data review of the ADR output.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **201-SB01-10** ***Collected:*** **6/16/2016 9:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.3	J	0.70	LOD	1.4	LOQ	mg/Kg	J	Rl
CADMIUM	0.030	J	0.035	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	1.1	J	0.70	LOD	3.5	LOQ	mg/Kg	J	Rl

Sample ID: **201-SB01-25** ***Collected:*** **6/16/2016 9:20:00 AM** ***Analysis Type:*** **Dilution-1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	12000		34	LOD	100	LOQ	mg/Kg	J	Ms, Ms
MANGANESE	270		1.7	LOD	6.7	LOQ	mg/Kg	J-	Ms

Sample ID: **201-SB01-25** ***Collected:*** **6/16/2016 9:20:00 AM** ***Analysis Type:*** **Dilution-2** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	6200		130	LOD	340	LOQ	mg/Kg	J-	Ms

Sample ID: **201-SB01-25** ***Collected:*** **6/16/2016 9:20:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.014	J	0.034	LOD	0.17	LOQ	mg/Kg	J	Rl
CALCIUM	780	X	6.7	LOD	34	LOQ	mg/Kg	J+	Ms
LEAD	0.97	J	0.67	LOD	3.4	LOQ	mg/Kg	J	Rl
MAGNESIUM	1500	X	3.4	LOD	34	LOQ	mg/Kg	J-	Ms
POTASSIUM	910	X	6.7	LOD	13	LOQ	mg/Kg	J-	Ms

Sample ID: **203-SB01-10** ***Collected:*** **6/16/2016 10:10:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.051	J	0.035	LOD	0.17	LOQ	mg/Kg	J	Rl
LEAD	1.7	J	0.70	LOD	3.5	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **203-SB01-12** ***Collected:*** **6/16/2016 10:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.11	J	0.035	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.055	J	0.035	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	2.2	J	0.71	LOD	3.5	LOQ	mg/Kg	J	RI

Sample ID: **203-SB02-02** ***Collected:*** **6/16/2016 11:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.15	J	0.034	LOD	0.17	LOQ	mg/Kg	J	RI
LEAD	2.3	J	0.69	LOD	3.4	LOQ	mg/Kg	J	RI

Sample ID: **203-SB03-04** ***Collected:*** **6/16/2016 11:40:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.060	J	0.034	LOD	0.17	LOQ	mg/Kg	J	RI
LEAD	1.8	J	0.68	LOD	3.4	LOQ	mg/Kg	J	RI

Sample ID: **203-SB03-05** ***Collected:*** **6/16/2016 11:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.14	J	0.034	LOD	0.17	LOQ	mg/Kg	J	RI
CADMIUM	0.031	J	0.034	LOD	0.17	LOQ	mg/Kg	J	RI
LEAD	3.0	J	0.69	LOD	3.4	LOQ	mg/Kg	J	RI

Sample ID: **203-SB04-11** ***Collected:*** **6/16/2016 10:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.1	J	0.72	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: **203-SB04-14** ***Collected:*** **6/16/2016 11:10:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.1	J	0.67	LOD	1.3	LOQ	mg/Kg	J	RI
BERYLLIUM	0.084	J	0.034	LOD	0.17	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: 203-SB04-14 **Collected:** 6/16/2016 11:10:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.023	J	0.034	LOD	0.17	LOQ	mg/Kg	J	Rl
LEAD	2.8	J	0.67	LOD	3.4	LOQ	mg/Kg	J	Rl

Sample ID: 203-SB05-05 **Collected:** 6/16/2016 11:45:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.11	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl

Sample ID: 203-SB05-21 **Collected:** 6/16/2016 12:00:00 PM **Analysis Type:** Dilution-1 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	12000		43	LOD	130	LOQ	mg/Kg	J	Ms, Ms

Sample ID: 203-SB05-21 **Collected:** 6/16/2016 12:00:00 PM **Analysis Type:** Dilution-2 **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	10000		170	LOD	430	LOQ	mg/Kg	J	Ms, Ms

Sample ID: 203-SB05-21 **Collected:** 6/16/2016 12:00:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.6	J	0.87	LOD	1.7	LOQ	mg/Kg	J	Rl
BARIUM	42	X	4.3	LOD	8.7	LOQ	mg/Kg	J	Ms, Ms
CADMIUM	0.032	J	0.043	LOD	0.22	LOQ	mg/Kg	J	Rl
CALCIUM	810	X	8.7	LOD	43	LOQ	mg/Kg	J+	Ms
COPPER	31	X	0.87	LOD	4.3	LOQ	mg/Kg	J+	Ms
LEAD	3.5	J	0.87	LOD	4.3	LOQ	mg/Kg	J	Rl
MAGNESIUM	2100	X	4.3	LOD	43	LOQ	mg/Kg	J	Ms, Ms
MANGANESE	130	X	0.22	LOD	0.87	LOQ	mg/Kg	J	Ms, Ms
NICKEL	8.4	X	0.87	LOD	4.3	LOQ	mg/Kg	J+	Ms
POTASSIUM	1500	X	8.7	LOD	17	LOQ	mg/Kg	J	Ms, Ms
VANADIUM	22	X	0.87	LOD	2.2	LOQ	mg/Kg	J+	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: H17-SB01-05 **Collected:** 6/16/2016 3:10:00 PM **Analysis Type:** Dilution-1 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	14000		36	LOD	110	LOQ	mg/Kg	J+	Ms
MANGANESE	210		1.8	LOD	7.1	LOQ	mg/Kg	J	Ms, Ms

Sample ID: H17-SB01-05 **Collected:** 6/16/2016 3:10:00 PM **Analysis Type:** Dilution-2 **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	6900		140	LOD	360	LOQ	mg/Kg	J+	Ms

Sample ID: H17-SB01-05 **Collected:** 6/16/2016 3:10:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.031	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
CALCIUM	640	X	7.1	LOD	36	LOQ	mg/Kg	J	Ms, Ms
COPPER	29	X	0.71	LOD	3.6	LOQ	mg/Kg	J+	Ms
LEAD	2.2	J	0.71	LOD	3.6	LOQ	mg/Kg	J	RI
MAGNESIUM	1300	X	3.6	LOD	36	LOQ	mg/Kg	J+	Ms
POTASSIUM	840	X	7.1	LOD	14	LOQ	mg/Kg	J-	Ms
SELENIUM	1.1	UX	1.1	LOD	1.4	LOQ	mg/Kg	UJ	Ms
VANADIUM	19	X	0.71	LOD	1.8	LOQ	mg/Kg	J+	Ms

Sample ID: H17-SB02-05 **Collected:** 6/16/2016 2:40:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.084	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.055	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI
LEAD	3.5	J	0.76	LOD	3.8	LOQ	mg/Kg	J	RI

Sample ID: H17-SB03-05 **Collected:** 6/16/2016 2:45:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.13	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.060	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: WDS-SB18-12 **Collected:** 6/16/2016 8:30:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.2	J	0.71	LOD	1.4	LOQ	mg/Kg	J	RI
BERYLLIUM	0.067	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.025	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	1.9	J	0.71	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB19-12 **Collected:** 6/16/2016 8:30:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.95	J	0.74	LOD	1.5	LOQ	mg/Kg	J	RI
BERYLLIUM	0.025	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	0.61	J	0.74	LOD	3.7	LOQ	mg/Kg	J	RI
NICKEL	2.2	J	0.74	LOD	3.7	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: 201-SB01-10 **Collected:** 6/16/2016 9:15:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.062	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: 201-SB01-25 **Collected:** 6/16/2016 9:20:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.077	J	0.033	LOD	0.13	LOQ	mg/Kg	J	RI

Sample ID: 203-SB01-10 **Collected:** 6/16/2016 10:10:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.13	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A-TL** ***Matrix:*** **Soil**

Sample ID: **203-SB01-12** ***Collected:*** **6/16/2016 10:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.13	J	0.036	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: **203-SB02-02** ***Collected:*** **6/16/2016 11:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.12	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: **203-SB03-05** ***Collected:*** **6/16/2016 11:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.11	J	0.036	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: **H17-SB01-05** ***Collected:*** **6/16/2016 3:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.089	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: **H17-SB02-05** ***Collected:*** **6/16/2016 2:40:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.090	J	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: **H17-SB03-05** ***Collected:*** **6/16/2016 2:45:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.12	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB18-12** ***Collected:*** **6/16/2016 8:30:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.099	J	0.036	LOD	0.14	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8082A **Matrix: Soil**

Sample ID: H17-SB01-05 **Collected:** 6/16/2016 3:10:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.0073	U	0.0073	LOD	0.036	LOQ	mg/Kg	UJ	Surr

Sample ID: H17-SB02-05 **Collected:** 6/16/2016 2:40:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.0075	U	0.0075	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.0075	U	0.0075	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.0075	U	0.0075	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.0075	U	0.0075	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.0075	U	0.0075	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.0075	U	0.0075	LOD	0.037	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.0075	U	0.0075	LOD	0.037	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.0075	U	0.0075	LOD	0.037	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.0075	U	0.0075	LOD	0.037	LOQ	mg/Kg	UJ	Surr

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: 203-SB05-21 **Collected:** 6/16/2016 12:00:00 PM **Analysis Type:** Initial1-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Benzo (g,h,i) perylene	0.031	X	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Surr, Surr
BENZO(A)PYRENE	0.071	X	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Surr, Surr
BENZO(B)FLUORANTHENE	0.12	X	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Surr, Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: 203-SB05-21 **Collected:** 6/16/2016 12:00:00 PM **Analysis Type:** Initial1-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.038	X	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Surr, Surr
CHRYSENE	0.11	X	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Surr, Surr
DIBENZO(A,H)ANTHRACENE	0.013	X	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Ms, Surr, Surr
INDENO(1,2,3-CD)PYRENE	0.031	X	0.0026	LOD	0.0026	LOQ	mg/Kg	J	Ms, Surr, Surr

Sample ID: 203-SB05-21 **Collected:** 6/16/2016 12:00:00 PM **Analysis Type:** Initial2-BASE/NEUTRAL **Dilution:** 3000

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	60		2.6	LOD	2.6	LOQ	mg/Kg	J	Ms, Ms
2-METHYLNAPHTHALENE	54		2.6	LOD	2.6	LOQ	mg/Kg	J	Ms, Ms
ACENAPHTHENE	22		2.6	LOD	2.6	LOQ	mg/Kg	J	Ms, Ms
ACENAPHTHYLENE	3.6		2.6	LOD	2.6	LOQ	mg/Kg	J	Ms, Ms, Ms
ANTHRACENE	6.7		2.6	LOD	2.6	LOQ	mg/Kg	J	Ms, Ms
BENZ(A)ANTHRACENE	2.6	U	2.6	LOD	2.6	LOQ	mg/Kg	UJ	Ms
FLUORANTHENE	3.6		2.6	LOD	2.6	LOQ	mg/Kg	J	Ms, Ms, Ms
FLUORENE	20		2.6	LOD	2.6	LOQ	mg/Kg	J	Ms, Ms, Ms
NAPHTHALENE	3.9		2.6	LOD	2.6	LOQ	mg/Kg	J	Ms, Ms
PHENANTHRENE	45		2.6	LOD	2.6	LOQ	mg/Kg	J	Ms, Ms, Ms
PYRENE	4.4		2.6	LOD	2.6	LOQ	mg/Kg	J-	Ms

Sample ID: H17-SB01-05 **Collected:** 6/16/2016 3:10:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0040	YX	0.00074	LOD	0.00074	LOQ	mg/Kg	J+	Ms

Method Category: SVOA

Method: 8270D-MOD **Matrix: Soil**

Sample ID: 201-SB01-10 **Collected:** 6/16/2016 9:15:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.18	UQ	0.18	LOD	0.91	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **201-SB01-10** ***Collected:*** **6/16/2016 9:15:00 AM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.36	UYQZ	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.091	UYQ	0.091	LOD	0.17	LOQ	mg/Kg	UJ	Lcs

Sample ID: **201-SB01-10** ***Collected:*** **6/16/2016 9:15:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.73	UQ	0.73	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: **201-SB01-25** ***Collected:*** **6/16/2016 9:20:00 AM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.17	UQ	0.17	LOD	0.86	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.35	UYQXZ	0.35	LOD	1.0	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.087	UYQX	0.087	LOD	0.17	LOQ	mg/Kg	UJ	Lcs

Sample ID: **201-SB01-25** ***Collected:*** **6/16/2016 9:20:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.69	UQX	0.69	LOD	1.0	LOQ	mg/Kg	UJ	Ms, Lcs

Sample ID: **203-SB01-10** ***Collected:*** **6/16/2016 10:10:00 AM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.18	UQ	0.18	LOD	0.90	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.36	UYQZ	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.090	UYQ	0.090	LOD	0.17	LOQ	mg/Kg	UJ	Lcs

Sample ID: **203-SB01-10** ***Collected:*** **6/16/2016 10:10:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.72	UQ	0.72	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **203-SB01-12** ***Collected:*** **6/16/2016 10:45:00 AM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.19	UQ	0.19	LOD	0.93	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.37	UYQZ	0.37	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.093	UYQ	0.093	LOD	0.18	LOQ	mg/Kg	UJ	Lcs

Sample ID: **203-SB01-12** ***Collected:*** **6/16/2016 10:45:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.75	UQ	0.75	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: **203-SB02-02** ***Collected:*** **6/16/2016 11:15:00 AM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	0.036	U	0.036	LOD	0.17	LOQ	mg/Kg	UJ	Surr
2,4,6-TRICHLOROPHENOL	0.036	U	0.036	LOD	0.17	LOQ	mg/Kg	UJ	Surr
2,4-DICHLOROPHENOL	0.090	U	0.090	LOD	0.17	LOQ	mg/Kg	UJ	Surr
2,4-Dimethyl phenol	0.090	U	0.090	LOD	0.17	LOQ	mg/Kg	UJ	Surr
2,4-DINITROPHENOL	0.18	UQ	0.18	LOD	0.89	LOQ	mg/Kg	UJ	Lcs, Surr
2-CHLOROPHENOL	0.090	U	0.090	LOD	0.17	LOQ	mg/Kg	UJ	Surr
2-NITROPHENOL	0.090	U	0.090	LOD	0.17	LOQ	mg/Kg	UJ	Surr
4,6-DINITRO-2-METHYLPHENOL	0.090	U	0.090	LOD	0.34	LOQ	mg/Kg	UJ	Surr
4-CHLORO-3-METHYLPHENOL	0.036	U	0.036	LOD	0.17	LOQ	mg/Kg	UJ	Surr
4-NITROPHENOL	0.36	U	0.36	LOD	0.89	LOQ	mg/Kg	UJ	Surr
BENZOIC ACID	0.36	UYQZ	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs, Surr
PENTACHLOROPHENOL	0.090	UYQ	0.090	LOD	0.17	LOQ	mg/Kg	UJ	Lcs, Surr
PHENOL	0.090	U	0.090	LOD	0.17	LOQ	mg/Kg	UJ	Surr

Sample ID: **203-SB02-02** ***Collected:*** **6/16/2016 11:15:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.72	UQ	0.72	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: 203-SB03-04 **Collected:** 6/16/2016 11:40:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.18	UQ	0.18	LOD	0.88	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.35	UYQZ	0.35	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.088	UYQ	0.088	LOD	0.17	LOQ	mg/Kg	UJ	Lcs

Sample ID: 203-SB03-04 **Collected:** 6/16/2016 11:40:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.70	UQ	0.70	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: 203-SB03-05 **Collected:** 6/16/2016 11:45:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.18	UQ	0.18	LOD	0.88	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.35	UYQZ	0.35	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.089	UYQ	0.089	LOD	0.17	LOQ	mg/Kg	UJ	Lcs

Sample ID: 203-SB03-05 **Collected:** 6/16/2016 11:45:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.71	UQ	0.71	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: 203-SB04-11 **Collected:** 6/16/2016 10:55:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.18	UQ	0.18	LOD	0.90	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.36	UYQZ	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.090	UYQ	0.090	LOD	0.17	LOQ	mg/Kg	UJ	Lcs

Sample ID: 203-SB04-11 **Collected:** 6/16/2016 10:55:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.72	UQ	0.72	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
3-NITROANILINE	0.014	J	0.018	LOD	0.35	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: 203-SB04-14 **Collected:** 6/16/2016 11:10:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.17	UQ	0.17	LOD	0.86	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.35	UYQZ	0.35	LOD	1.0	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.087	UYQ	0.087	LOD	0.17	LOQ	mg/Kg	UJ	Lcs

Sample ID: 203-SB04-14 **Collected:** 6/16/2016 11:10:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.69	UQ	0.69	LOD	1.0	LOQ	mg/Kg	UJ	Lcs

Sample ID: 203-SB05-05 **Collected:** 6/16/2016 11:45:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.19	UQ	0.19	LOD	0.95	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.50	JYQZ	0.38	LOD	1.1	LOQ	mg/Kg	J	Rl, Lcs
PENTACHLOROPHENOL	0.095	UYQ	0.095	LOD	0.18	LOQ	mg/Kg	UJ	Lcs

Sample ID: 203-SB05-05 **Collected:** 6/16/2016 11:45:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.76	UQ	0.76	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: 203-SB05-21 **Collected:** 6/16/2016 12:00:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.22	UQX	0.22	LOD	1.1	LOQ	mg/Kg	UJ	Ms, Lcs
BENZOIC ACID	0.43	UYQXZ	0.43	LOD	1.3	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.11	UYQX	0.11	LOD	0.21	LOQ	mg/Kg	UJ	Lcs

Sample ID: 203-SB05-21 **Collected:** 6/16/2016 12:00:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.87	UQX	0.87	LOD	1.3	LOQ	mg/Kg	UJ	Lcs
CARBAZOLE	0.18	JX	0.022	LOD	0.21	LOQ	mg/Kg	J	Rl, Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **203-SB05-21** ***Collected:*** **6/16/2016 12:00:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIMETHYL PHTHALATE	0.022	UX	0.022	LOD	0.21	LOQ	mg/Kg	UJ	Ms

Sample ID: **H17-SB01-05** ***Collected:*** **6/16/2016 3:10:00 PM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.19	UQX	0.19	LOD	0.92	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.37	UYQXZ	0.37	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.093	UYQX	0.093	LOD	0.18	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H17-SB01-05** ***Collected:*** **6/16/2016 3:10:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.74	UQX	0.74	LOD	1.1	LOQ	mg/Kg	UJ	Ms, Lcs
DI-N-OCTYL PHTHALATE	0.020	JX	0.019	LOD	0.18	LOQ	mg/Kg	J	Rl, Ms

Sample ID: **H17-SB02-05** ***Collected:*** **6/16/2016 2:40:00 PM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.19	UQ	0.19	LOD	0.95	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.38	UYQZ	0.38	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.096	UYQ	0.096	LOD	0.18	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H17-SB02-05** ***Collected:*** **6/16/2016 2:40:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.77	UQ	0.77	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H17-SB03-05** ***Collected:*** **6/16/2016 2:45:00 PM** ***Analysis Type:*** **Initial-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.19	UQ	0.19	LOD	0.95	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.38	UYQZ	0.38	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.096	UYQ	0.096	LOD	0.18	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: H17-SB03-05 **Collected:** 6/16/2016 2:45:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.77	UQ	0.77	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB18-12 **Collected:** 6/16/2016 8:30:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.18	UQ	0.18	LOD	0.90	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.36	UYQZ	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.090	UYQ	0.090	LOD	0.17	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB18-12 **Collected:** 6/16/2016 8:30:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.72	UQ	0.72	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB19-12 **Collected:** 6/16/2016 8:30:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.18	UQ	0.18	LOD	0.91	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.37	UYQZ	0.37	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
PENTACHLOROPHENOL	0.091	UYQ	0.091	LOD	0.18	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB19-12 **Collected:** 6/16/2016 8:30:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.73	UQ	0.73	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
CARBAZOLE	0.12	J	0.018	LOD	0.18	LOQ	mg/Kg	J	RI
DIBENZOFURAN	0.069	J	0.018	LOD	0.18	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **201-SB01-10** ***Collected:*** **6/16/2016 9:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1.04**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0023	UQ	0.0023	LOD	0.0057	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.011	UQ	0.011	LOD	0.023	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.043	Q	0.0023	LOD	0.011	LOQ	mg/Kg	J-	Lcs
CHLOROMETHANE	0.0018	BQZ	0.00068	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
METHYLENE CHLORIDE	0.0065	Q	0.0023	LOD	0.0057	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

Sample ID: **201-SB01-25** ***Collected:*** **6/16/2016 9:20:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.98**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0020	UQ	0.0020	LOD	0.0051	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.010	UQX	0.010	LOD	0.020	LOQ	mg/Kg	UJ	Lcs
2-HEXANONE	0.0020	UBQXZ	0.0020	LOD	0.0051	LOQ	mg/Kg	UJ	Ms
ACETONE	0.0023	JQ	0.0020	LOD	0.010	LOQ	mg/Kg	J	Rl, Ms, Lcs
CHLOROMETHANE	0.0014	BQZ	0.00061	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
ETHYLBENZENE	0.00061	UX	0.00061	LOD	0.0010	LOQ	mg/Kg	UJ	Ms
METHYLENE CHLORIDE	0.0032	JQ	0.0020	LOD	0.0051	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
STYRENE	0.00061	UX	0.00061	LOD	0.0010	LOQ	mg/Kg	UJ	Ms
VINYL ACETATE	0.00061	UXZ	0.00061	LOD	0.0051	LOQ	mg/Kg	UJ	Ms
Xylene (Total)	0.0018	UX	0.0018	LOD	0.0031	LOQ	mg/Kg	UJ	Ms

Sample ID: **203-SB01-10** ***Collected:*** **6/16/2016 10:10:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.86**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0019	UQ	0.0019	LOD	0.0047	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.0094	UQ	0.0094	LOD	0.019	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.0019	UQ	0.0019	LOD	0.0094	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.0014	BQZ	0.00056	LOD	0.00094	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

Sample ID: **203-SB01-12** ***Collected:*** **6/16/2016 10:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.79**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.0089	UQ	0.0089	LOD	0.018	LOQ	mg/Kg	UJ	Lcs, Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **203-SB01-12** ***Collected:*** **6/16/2016 10:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.79**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,3-DICHLOROPROPENE	0.00053	UQ	0.00053	LOD	0.00089	LOQ	mg/Kg	UJ	Lcs
STYRENE	0.00053	UQ	0.00053	LOD	0.00089	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.00053	UQ	0.00053	LOD	0.00089	LOQ	mg/Kg	UJ	Lcs

Sample ID: **203-SB02-02** ***Collected:*** **6/16/2016 11:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.88**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.0096	UQ	0.0096	LOD	0.019	LOQ	mg/Kg	UJ	Lcs, Lcs
CIS-1,3-DICHLOROPROPENE	0.00058	UQ	0.00058	LOD	0.00096	LOQ	mg/Kg	UJ	Lcs
STYRENE	0.00058	UQ	0.00058	LOD	0.00096	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.00058	UQ	0.00058	LOD	0.00096	LOQ	mg/Kg	UJ	Lcs

Sample ID: **203-SB03-04** ***Collected:*** **6/16/2016 11:40:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.87**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0019	UQ	0.0019	LOD	0.0046	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.0093	UQ	0.0093	LOD	0.019	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.0058	JQ	0.0019	LOD	0.0093	LOQ	mg/Kg	J	RI, Lcs
CHLOROMETHANE	0.0014	BQZ	0.00056	LOD	0.00093	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

Sample ID: **203-SB03-05** ***Collected:*** **6/16/2016 11:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.94**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0020	UQ	0.0020	LOD	0.0051	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.010	UQ	0.010	LOD	0.020	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.0020	UQ	0.0020	LOD	0.010	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.0013	BQZ	0.00061	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

Sample ID: **203-SB04-11** ***Collected:*** **6/16/2016 10:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.9**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0019	UQ	0.0019	LOD	0.0049	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.0097	UQ	0.0097	LOD	0.019	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **203-SB04-11** ***Collected:*** **6/16/2016 10:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.9**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.0060	JQ	0.0019	LOD	0.0097	LOQ	mg/Kg	J	Rl, Lcs
CHLOROMETHANE	0.0012	BQZ	0.00058	LOD	0.00097	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

Sample ID: **203-SB04-14** ***Collected:*** **6/16/2016 11:10:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.78**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0017	UQ	0.0017	LOD	0.0042	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.0083	UQ	0.0083	LOD	0.017	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.0017	UQ	0.0017	LOD	0.0083	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.0011	BQZ	0.00050	LOD	0.00083	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
METHYLENE CHLORIDE	0.00090	JQ	0.0017	LOD	0.0042	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

Sample ID: **203-SB05-05** ***Collected:*** **6/16/2016 11:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.88**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0020	UQ	0.0020	LOD	0.0051	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.010	UQ	0.010	LOD	0.020	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.045	Q	0.0020	LOD	0.010	LOQ	mg/Kg	J-	Lcs
CHLOROMETHANE	0.0013	BQZ	0.00061	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

Sample ID: **203-SB05-21** ***Collected:*** **6/16/2016 12:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.84**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.00066	UX	0.00066	LOD	0.0011	LOQ	mg/Kg	UJ	Ms
1,2-DIBROMO-3-CHLOROPROPANE	0.0022	UQX	0.0022	LOD	0.0055	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.011	UQX	0.011	LOD	0.022	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.0022	UQX	0.0022	LOD	0.011	LOQ	mg/Kg	UJ	Lcs
BENZENE	0.029	X	0.00066	LOD	0.0011	LOQ	mg/Kg	NP	Ms, ProfJudg
CHLOROMETHANE	0.0015	BQXZ	0.00066	LOD	0.0011	LOQ	mg/Kg	UJ	Ms, Lcs, Mb, Tb
CIS-1,2-DICHLOROETHENE	0.0025	X	0.00066	LOD	0.0011	LOQ	mg/Kg	J-	Ms
ETHYLBENZENE	0.63	JX	0.00066	LOD	0.0011	LOQ	mg/Kg	NP	Ms, Ms, ProfJudg
STYRENE	0.00066	UX	0.00066	LOD	0.0011	LOQ	mg/Kg	UJ	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **203-SB05-21** ***Collected:*** **6/16/2016 12:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.84**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TETRACHLOROETHENE	0.00066	UX	0.00066	LOD	0.0011	LOQ	mg/Kg	UJ	Ms
VINYL ACETATE	0.00066	UXZ	0.00066	LOD	0.0055	LOQ	mg/Kg	UJ	Ms
Xylene (Total)	0.53	X	0.0020	LOD	0.0033	LOQ	mg/Kg	NP	Ms, Ms, ProfJudg

Sample ID: **H17-SB01-05** ***Collected:*** **6/16/2016 3:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.82**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0018	UQX	0.0018	LOD	0.0046	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.0092	UQX	0.0092	LOD	0.018	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.010	QX	0.0018	LOD	0.0092	LOQ	mg/Kg	J	Ms, Ms, Lcs
CHLOROBENZENE	0.00055	UX	0.00055	LOD	0.00092	LOQ	mg/Kg	UJ	Ms
CHLORODIBROMOMETHANE	0.00055	UX	0.00055	LOD	0.00092	LOQ	mg/Kg	UJ	Ms
CHLOROMETHANE	0.0012	BQZ	0.00055	LOD	0.00092	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
ETHYLBENZENE	0.00055	UX	0.00055	LOD	0.00092	LOQ	mg/Kg	UJ	Ms
METHYLENE CHLORIDE	0.0012	JQ	0.0018	LOD	0.0046	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
STYRENE	0.00055	UX	0.00055	LOD	0.00092	LOQ	mg/Kg	UJ	Ms
TETRACHLOROETHENE	0.00055	UX	0.00055	LOD	0.00092	LOQ	mg/Kg	UJ	Ms
TOLUENE	0.00055	UX	0.00055	LOD	0.00092	LOQ	mg/Kg	UJ	Ms
VINYL ACETATE	0.00055	UXZ	0.00055	LOD	0.0046	LOQ	mg/Kg	UJ	Ms
Xylene (Total)	0.0017	UX	0.0017	LOD	0.0028	LOQ	mg/Kg	UJ	Ms

Sample ID: **H17-SB02-05** ***Collected:*** **6/16/2016 2:40:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.88**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0020	UQ	0.0020	LOD	0.0051	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.0064	JQ	0.010	LOD	0.020	LOQ	mg/Kg	J	Rl, Lcs, Lcs
ACETONE	0.068	Q	0.0020	LOD	0.010	LOQ	mg/Kg	J-	Lcs
CHLOROMETHANE	0.0014	BQZ	0.00061	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
METHYLENE CHLORIDE	0.0011	JQ	0.0020	LOD	0.0051	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **H17-SB03-05** ***Collected:*** **6/16/2016 2:45:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.84**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0019	UQ	0.0019	LOD	0.0049	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.0097	UQ	0.0097	LOD	0.019	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.078	Q	0.0019	LOD	0.0097	LOQ	mg/Kg	J-	Lcs
CHLOROMETHANE	0.0014	BQZ	0.00058	LOD	0.00097	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

Sample ID: **TB-SO-061616-01** ***Collected:*** **6/16/2016 8:05:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0020	UQ	0.0020	LOD	0.0050	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.010	UQ	0.010	LOD	0.020	LOQ	mg/Kg	UJ	Lcs
2-HEXANONE	0.033	BQZ	0.0020	LOD	0.0050	LOQ	mg/Kg	UJ	Lcs, Mb
ACETONE	0.0020	UQ	0.0020	LOD	0.010	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.0016	BQZ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs, Mb
METHYLENE CHLORIDE	0.0096	Q	0.0020	LOD	0.0050	LOQ	mg/Kg	UJ	Lcs, Mb

Sample ID: **WDS-SB18-12** ***Collected:*** **6/16/2016 8:30:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.82**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.0089	UQ	0.0089	LOD	0.018	LOQ	mg/Kg	UJ	Lcs, Lcs
ACETONE	0.0020	JZ	0.0018	LOD	0.0089	LOQ	mg/Kg	J	Rl
CIS-1,3-DICHLOROPROPENE	0.00053	UQ	0.00053	LOD	0.00089	LOQ	mg/Kg	UJ	Lcs
STYRENE	0.00053	UQ	0.00053	LOD	0.00089	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.00053	UQ	0.00053	LOD	0.00089	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB19-12** ***Collected:*** **6/16/2016 8:30:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.87**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.0096	UQ	0.0096	LOD	0.019	LOQ	mg/Kg	UJ	Lcs, Lcs
CARBON DISULFIDE	0.00082	J	0.00058	LOD	0.00096	LOQ	mg/Kg	J	Rl
CIS-1,3-DICHLOROPROPENE	0.00058	UQ	0.00058	LOD	0.00096	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0033	JBQ	0.0019	LOD	0.0048	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
STYRENE	0.00058	UQ	0.00058	LOD	0.00096	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **WDS-SB19-12** ***Collected:*** **6/16/2016 8:30:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.87**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TRANS-1,3-DICHLOROPROPENE	0.00058	UQ	0.00058	LOD	0.00096	LOQ	mg/Kg	UJ	Lcs

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **203-SB05-21** ***Collected:*** **6/16/2016 12:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **93.2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
1,1,1-TRICHLOROETHANE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
1,1,2,2-TETRACHLOROETHANE	0.074	UX	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
1,1,2-TRICHLOROETHANE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
1,1-DICHLOROETHANE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
1,1-DICHLOROETHENE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
1,2,3-TRICHLOROPROPANE	0.074	UX	0.074	LOD	0.12	LOQ	mg/Kg	NP	Ms, ProfJudg
1,2-DIBROMO-3-CHLOROPROPANE	0.25	UXZ	0.25	LOD	0.61	LOQ	mg/Kg	NP	ProfJudg
1,2-DIBROMOETHANE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
1,2-DICHLOROETHANE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
1,2-DICHLOROPROPANE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
2-Butanone [MEK]	0.61	U	0.61	LOD	1.2	LOQ	mg/Kg	NP	ProfJudg
2-HEXANONE	0.12	UX	0.12	LOD	0.25	LOQ	mg/Kg	NP	ProfJudg
ACETONE	0.25	U	0.25	LOD	0.61	LOQ	mg/Kg	NP	ProfJudg
BROMODICHLOROMETHANE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
BROMOFORM	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
CARBON DISULFIDE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
CARBON TETRACHLORIDE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
CHLOROBENZENE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
CHLORODIBROMOMETHANE	0.074	UZ	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
CHLOROETHANE	0.25	UYQX	0.25	LOD	0.61	LOQ	mg/Kg	NP	Ms, Lcs, ProfJudg
CHLOROFORM	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
CHLOROMETHANE	0.21	Q	0.074	LOD	0.12	LOQ	mg/Kg	NP	Lcs, ProfJudg

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **203-SB05-21** ***Collected:*** **6/16/2016 12:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **93.2**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
CIS-1,2-DICHLOROETHENE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
CIS-1,3-DICHLOROPROPENE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
Dichlorodifluoromethane [Freon-12]	0.25	U	0.25	LOD	0.61	LOQ	mg/Kg	NP	ProfJudg
METHYLENE CHLORIDE	0.12	UQ	0.12	LOD	0.25	LOQ	mg/Kg	NP	ProfJudg
STYRENE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
TETRACHLOROETHENE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
TOLUENE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
TRANS-1,2-DICHLOROETHENE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
TRANS-1,3-DICHLOROPROPENE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
TRICHLOROETHENE	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
Trichlorofluoromethane [Freon-11]	0.074	U	0.074	LOD	0.12	LOQ	mg/Kg	NP	ProfJudg
VINYL ACETATE	0.074	U	0.074	LOD	3.1	LOQ	mg/Kg	NP	ProfJudg
VINYL CHLORIDE	0.074	U	0.074	LOD	0.098	LOQ	mg/Kg	NP	ProfJudg

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40430	7/29/2016 11:36:37 AM	COPPER ZINC	0.77 mg/Kg 1.4 mg/Kg	201-SB01-25 203-SB01-10 203-SB02-02 203-SB03-04 203-SB04-11 203-SB05-05
MB-40445	7/21/2016 2:41:09 PM	SODIUM	2.1 mg/Kg	H17-SB01-05
MB-40481	8/4/2016 11:23:38 AM	MANGANESE	0.37 mg/Kg	203-SB05-21

Method: **8260C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA10 MBLK 06231	6/23/2016 2:43:00 PM	METHYLENE CHLORIDE	0.0045 mg/Kg	203-SB01-12 203-SB02-02 WDS-SB18-12 WDS-SB19-12
VOA11B MBLK 0629	6/29/2016 7:00:00 PM	2-HEXANONE CHLOROMETHANE METHYLENE CHLORIDE	0.064 mg/Kg 0.0012 mg/Kg 0.0019 mg/Kg	201-SB01-10 201-SB01-25 203-SB01-10 203-SB03-04 203-SB03-05 203-SB04-11 203-SB04-14 203-SB05-05 203-SB05-21 H17-SB01-05 H17-SB02-05 H17-SB03-05 TB-SO-061616-01

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
201-SB01-10(Initial)	CHLOROMETHANE	0.0018 mg/Kg	0.0018U mg/Kg
201-SB01-10(Initial)	METHYLENE CHLORIDE	0.0065 mg/Kg	0.0065U mg/Kg
201-SB01-25(Initial)	CHLOROMETHANE	0.0014 mg/Kg	0.0014U mg/Kg
201-SB01-25(Initial)	METHYLENE CHLORIDE	0.0032 mg/Kg	0.0051U mg/Kg
203-SB01-10(Initial)	CHLOROMETHANE	0.0014 mg/Kg	0.0014U mg/Kg
203-SB03-04(Initial)	CHLOROMETHANE	0.0014 mg/Kg	0.0014U mg/Kg
203-SB03-05(Initial)	CHLOROMETHANE	0.0013 mg/Kg	0.0013U mg/Kg
203-SB04-11(Initial)	CHLOROMETHANE	0.0012 mg/Kg	0.0012U mg/Kg
203-SB04-14(Initial)	CHLOROMETHANE	0.0011 mg/Kg	0.0011U mg/Kg
203-SB04-14(Initial)	METHYLENE CHLORIDE	0.00090 mg/Kg	0.0042U mg/Kg
203-SB05-05(Initial)	CHLOROMETHANE	0.0013 mg/Kg	0.0013U mg/Kg
203-SB05-21(Initial)	CHLOROMETHANE	0.0015 mg/Kg	0.0015U mg/Kg
H17-SB01-05(Initial)	CHLOROMETHANE	0.0012 mg/Kg	0.0012U mg/Kg
H17-SB01-05(Initial)	METHYLENE CHLORIDE	0.0012 mg/Kg	0.0046U mg/Kg

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Method Blank Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H17-SB02-05(Initial)	CHLOROMETHANE	0.0014 mg/Kg	0.0014U mg/Kg
H17-SB02-05(Initial)	METHYLENE CHLORIDE	0.0011 mg/Kg	0.0051U mg/Kg
H17-SB03-05(Initial)	CHLOROMETHANE	0.0014 mg/Kg	0.0014U mg/Kg
TB-SO-061616-01(Initial)	2-HEXANONE	0.033 mg/Kg	0.033U mg/Kg
TB-SO-061616-01(Initial)	CHLOROMETHANE	0.0016 mg/Kg	0.0016U mg/Kg
TB-SO-061616-01(Initial)	METHYLENE CHLORIDE	0.0096 mg/Kg	0.0096U mg/Kg
WDS-SB19-12(Initial)	METHYLENE CHLORIDE	0.0033 mg/Kg	0.0048U mg/Kg

Method: **8260C-ME**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK2 062	6/30/2016 6:47:00 AM	METHYLENE CHLORIDE	0.045 mg/Kg	203-SB05-21

Surrogate Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H17-SB01-05 (Initial)	TETRACHLORO-M-XYLENE	43	44.00-130.00	All Target Analytes	J-(all detects) UJ(all non-detects)
H17-SB02-05 (Initial)	DECACHLOROBIPHENYL	53.1	60.00-125.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8260C
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB05-21 (Initial)	4-Bromofluorobenzene	447	79.00-119.00	No Affected Compounds	
WDS-SB18-12 (Initial)	TOLUENE-D8	84.8	85.00-116.00	No Affected Compounds	

Method: 8260C-ME
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB05-21 (Initial)	4-Bromofluorobenzene	159	79.00-119.00	No Affected Compounds	

Method: 8270D SIM
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
201-SB01-10 (Initial)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	279 292 296	46.00-115.00 44.00-125.00 58.00-133.00	All Base/Neutral Target Analytes	J+ (all detects)
203-SB05-21 (Initial1)	2-FLUOROBIPHENYL	34.1	46.00-115.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
203-SB05-21 (Initial1)	Nitrobenzene-d5 Terphenyl-d14	135 142	44.00-125.00 58.00-133.00	All Base/Neutral Target Analytes	J+(all detects)

Method: 8270D-MOD
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB02-02 (Initial)	2,4,6-TRIBROMOPHENOL 2-FLUOROPHENOL	36.8 34.3	39.00-132.00 35.00-115.00	All Acid Target Analytes	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H17-SB01-05MS H17-SB01-05MSD (H17-SB01-05)	1-METHYLNAPHTHALENE	133	130	43.00-111.00	-	1-METHYLNAPHTHALENE	J+ (all detects)

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	4-NITROPHENOL DIBENZOFURAN DIETHYL PHTHALATE PENTACHLOROPHENOL	166 497 303 274	219 - 206 -	30.00-132.00 44.00-120.00 50.00-124.00 25.00-133.00	26.24 (25.00) 153.12 (25.00) 39.44 (25.00) 80.18 (25.00)	4-NITROPHENOL DIBENZOFURAN DIETHYL PHTHALATE PENTACHLOROPHENOL	J(all detects)
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	DIMETHYL PHTHALATE	227	25	48.00-124.00	160.74 (25.00)	DIMETHYL PHTHALATE	J(all detects) UJ(all non-detects)
203-SB05-21MS (203-SB05-21)	2,4-DINITROPHENOL	42.2	-	50.00-130.00	-	2,4-DINITROPHENOL	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**

Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	1,2,4-TRICHLOROBENZENE	227	222	34.00-118.00	-	1,2,4-TRICHLOROBENZENE	
	1,2-DICHLOROBENZENE	208	205	33.00-117.00	-	1,2-DICHLOROBENZENE	
	1,3-DICHLOROBENZENE	205	193	30.00-115.00	-	1,3-DICHLOROBENZENE	
	1,4-DICHLOROBENZENE	204	198	31.00-115.00	-	1,4-DICHLOROBENZENE	
	2,4,5-TRICHLOROPHENOL	203	192	41.00-124.00	-	2,4,5-TRICHLOROPHENOL	
	2,4,6-TRICHLOROPHENOL	347	354	39.00-126.00	-	2,4,6-TRICHLOROPHENOL	
	2,4-DICHLOROPHENOL	327	341	40.00-122.00	-	2,4-DICHLOROPHENOL	
	2,4-Dimethyl phenol	216	207	30.00-127.00	-	2,4-Dimethyl phenol	
	2,4-DINITROTOLUENE	464	407	48.00-126.00	-	2,4-DINITROTOLUENE	
	2-CHLORONAPHTHALENE	190	190	41.00-114.00	-	2-CHLORONAPHTHALENE	
	2-CHLOROPHENOL	212	210	34.00-121.00	-	2-CHLOROPHENOL	
	2-Methylphenol (o-Cresol)	206	201	32.00-122.00	-	2-Methylphenol (o-Cresol)	
	2-NITROANILINE	280	268	44.00-127.00	-	2-NITROANILINE	
	2-NITROPHENOL	311	331	36.00-123.00	-	2-NITROPHENOL	
	3,3'-DICHLOROBENZIDINE	233	232	22.00-121.00	-	3,3'-DICHLOROBENZIDINE	
	3/4-Methylphenol [m/p-Cresol]	184	186	34.00-119.00	-	3/4-Methylphenol [m/p-Cresol]	
	3-NITROANILINE	260	244	33.00-119.00	-	3-NITROANILINE	
	4-BROMOPHENYL PHENYL ETHEI	231	218	46.00-124.00	-	4-BROMOPHENYL PHENYL ETH	
	4-CHLORO-3-METHYLPHENOL	443	494	45.00-122.00	-	4-CHLORO-3-METHYLPHENOL	
	4-Chloroaniline [p-Chloroaniline]	175	144	17.00-106.00	-	4-Chloroaniline [p-Chloroaniline]	
	4-CHLOROPHENYL PHENYL ETHE	278	232	45.00-121.00	-	4-CHLOROPHENYL PHENYL ETH	J+(all detects)
	4-NITROANILINE	227	220	50.00-130.00	-	4-NITROANILINE	
	BENZOIC ACID	404	413	40.00-117.00	-	BENZOIC ACID	
	BENZYL ALCOHOL	203	200	29.00-122.00	-	BENZYL ALCOHOL	
	bis(2-chloroethoxy) methane	207	212	36.00-121.00	-	bis(2-chloroethoxy) methane	
	BIS(2-CHLOROETHYL) ETHER	187	184	31.00-120.00	-	BIS(2-CHLOROETHYL) ETHER	
	BIS(2-CHLOROISOPROPYL)ETHE	188	181	33.00-131.00	-	BIS(2-CHLOROISOPROPYL)ETH	
	BIS(2-ETHYLHEXYL) PHTHALATE	245	237	51.00-133.00	-	BIS(2-ETHYLHEXYL) PHTHALATI	
	Butyl benzyl phthalate	238	230	48.00-132.00	-	Butyl benzyl phthalate	
	CARBAZOLE	224	218	50.00-123.00	-	CARBAZOLE	
	DI-N-BUTYL PHTHALATE	222	220	51.00-128.00	-	DI-N-BUTYL PHTHALATE	
	DI-N-OCTYL PHTHALATE	234	229	45.00-140.00	-	DI-N-OCTYL PHTHALATE	
	HEXACHLOROBENZENE	225	219	45.00-122.00	-	HEXACHLOROBENZENE	
	HEXACHLOROBUTADIENE	255	246	32.00-123.00	-	HEXACHLOROBUTADIENE	
	HEXACHLOROETHANE	250	286	28.00-117.00	-	HEXACHLOROETHANE	
	ISOPHORONE	191	188	30.00-122.00	-	ISOPHORONE	
	NITROBENZENE	207	202	34.00-122.00	-	NITROBENZENE	
	N-NITROSODIMETHYLAMINE	153	149	23.00-120.00	-	N-NITROSODIMETHYLAMINE	
	N-Nitrosodi-n-propylamine	238	270	36.00-120.00	-	N-Nitrosodi-n-propylamine	
	N-NITROSODIPHENYLAMINE	1420	1290	38.00-127.00	-	N-NITROSODIPHENYLAMINE	
	PHENOL	195	193	34.00-121.00	-	PHENOL	
201-SB01-25MSD (201-SB01-25)	2,4-DINITROPHENOL	-	-	50.00-130.00	34.66 (25.00)	2,4-DINITROPHENOL	J(all detects)
201-SB01-25MS 201-SB01-25MSD (201-SB01-25)	3,3'-DICHLOROBENZIDINE	0	0	22.00-121.00	-	3,3'-DICHLOROBENZIDINE	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**

Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
201-SB01-25MS 201-SB01-25MSD (201-SB01-25)	1,2,4-TRICHLOROBENZENE	229	213	34.00-118.00	-	1,2,4-TRICHLOROBENZENE	J+(all detects)
	1,2-DICHLOROBENZENE	214	198	33.00-117.00	-	1,2-DICHLOROBENZENE	
	1,3-DICHLOROBENZENE	205	196	30.00-115.00	-	1,3-DICHLOROBENZENE	
	1,4-DICHLOROBENZENE	206	192	31.00-115.00	-	1,4-DICHLOROBENZENE	
	2,4,5-TRICHLOROPHENOL	241	220	41.00-124.00	-	2,4,5-TRICHLOROPHENOL	
	2,4,6-TRICHLOROPHENOL	250	234	39.00-126.00	-	2,4,6-TRICHLOROPHENOL	
	2,4-DICHLOROPHENOL	250	236	40.00-122.00	-	2,4-DICHLOROPHENOL	
	2,4-DINITROTOLUENE	258	226	48.00-126.00	-	2,4-DINITROTOLUENE	
	2,6-DINITROTOLUENE	228	213	46.00-124.00	-	2,6-DINITROTOLUENE	
	2-CHLORONAPHTHALENE	200	185	41.00-114.00	-	2-CHLORONAPHTHALENE	
	2-CHLOROPHENOL	211	205	34.00-121.00	-	2-CHLOROPHENOL	
	2-Methylphenol (o-Cresol)	180	172	32.00-122.00	-	2-Methylphenol (o-Cresol)	
	2-NITROANILINE	225	206	44.00-127.00	-	2-NITROANILINE	
	2-NITROPHENOL	234	230	36.00-123.00	-	2-NITROPHENOL	
	3/4-Methylphenol [m/p-Cresol]	174	162	34.00-119.00	-	3/4-Methylphenol [m/p-Cresol]	
	3-NITROANILINE	224	220	33.00-119.00	-	3-NITROANILINE	
	4,6-DINITRO-2-METHYLPHENOL	183	166	29.00-132.00	-	4,6-DINITRO-2-METHYLPHENOL	
	4-BROMOPHENYL PHENYL ETHEI	216	204	46.00-124.00	-	4-BROMOPHENYL PHENYL ETH	
	4-CHLORO-3-METHYLPHENOL	242	228	45.00-122.00	-	4-CHLORO-3-METHYLPHENOL	
	4-Chloroaniline [p-Chloroaniline]	144	145	17.00-106.00	-	4-Chloroaniline [p-Chloroaniline]	
	4-CHLOROPHENYL PHENYL ETHE	247	224	45.00-121.00	-	4-CHLOROPHENYL PHENYL ETH	
	4-NITROANILINE	195	179	50.00-130.00	-	4-NITROANILINE	
	4-NITROPHENOL	208	192	30.00-132.00	-	4-NITROPHENOL	
	BENZOIC ACID	205	204	40.00-117.00	-	BENZOIC ACID	
	BENZYL ALCOHOL	207	191	29.00-122.00	-	BENZYL ALCOHOL	
	bis(2-chloroethoxy) methane	192	177	36.00-121.00	-	bis(2-chloroethoxy) methane	
	BIS(2-CHLOROETHYL) ETHER	197	184	31.00-120.00	-	BIS(2-CHLOROETHYL) ETHER	
	BIS(2-CHLOROISOPROPYL)ETHE	203	193	33.00-131.00	-	BIS(2-CHLOROISOPROPYL)ETH	
	BIS(2-ETHYLHEXYL) PHTHALATE	244	217	51.00-133.00	-	BIS(2-ETHYLHEXYL) PHTHALATI	
	Butyl benzyl phthalate	235	215	48.00-132.00	-	Butyl benzyl phthalate	
	CARBAZOLE	216	198	50.00-123.00	-	CARBAZOLE	
	DIBENZOFURAN	222	204	44.00-120.00	-	DIBENZOFURAN	
	DIETHYL PHTHALATE	236	212	50.00-124.00	-	DIETHYL PHTHALATE	
	DIMETHYL PHTHALATE	225	204	48.00-124.00	-	DIMETHYL PHTHALATE	
	DI-N-BUTYL PHTHALATE	216	199	51.00-128.00	-	DI-N-BUTYL PHTHALATE	
	DI-N-OCTYL PHTHALATE	234	214	45.00-140.00	-	DI-N-OCTYL PHTHALATE	
	HEXACHLOROBENZENE	214	194	45.00-122.00	-	HEXACHLOROBENZENE	
	HEXACHLOROBUTADIENE	252	237	32.00-123.00	-	HEXACHLOROBUTADIENE	
	HEXACHLOROETHANE	208	187	28.00-117.00	-	HEXACHLOROETHANE	
	ISOPHORONE	198	186	30.00-122.00	-	ISOPHORONE	
	NITROBENZENE	214	199	34.00-122.00	-	NITROBENZENE	
	N-NITROSODIMETHYLAMINE	159	150	23.00-120.00	-	N-NITROSODIMETHYLAMINE	
	N-Nitrosodi-n-propylamine	204	191	36.00-120.00	-	N-Nitrosodi-n-propylamine	
	N-NITROSODIPHENYLAMINE	187	173	38.00-127.00	-	N-NITROSODIPHENYLAMINE	
	PENTACHLOROPHENOL	234	251	25.00-133.00	-	PENTACHLOROPHENOL	
	PHENOL	199	187	34.00-121.00	-	PHENOL	
H17-SB01-05MS H17-SB01-05MSD (H17-SB01-05)	3,3'-DICHLOROBENZIDINE	0	0	22.00-121.00	-	3,3'-DICHLOROBENZIDINE	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H17-SB01-05MS H17-SB01-05MSD (H17-SB01-05)	1,2,4-TRICHLOROBENZENE	189	218	34.00-118.00	-	1,2,4-TRICHLOROBENZENE	
	1,2-DICHLOROBENZENE	176	203	33.00-117.00	-	1,2-DICHLOROBENZENE	
	1,3-DICHLOROBENZENE	171	198	30.00-115.00	-	1,3-DICHLOROBENZENE	
	1,4-DICHLOROBENZENE	170	199	31.00-115.00	-	1,4-DICHLOROBENZENE	
	2,4,5-TRICHLOROPHENOL	200	230	41.00-124.00	-	2,4,5-TRICHLOROPHENOL	
	2,4,6-TRICHLOROPHENOL	210	233	39.00-126.00	-	2,4,6-TRICHLOROPHENOL	
	2,4-DICHLOROPHENOL	213	244	40.00-122.00	-	2,4-DICHLOROPHENOL	
	2,4-Dimethyl phenol	162	188	30.00-127.00	-	2,4-Dimethyl phenol	
	2,4-DINITROPHENOL	202	233	50.00-130.00	-	2,4-DINITROPHENOL	
	2,4-DINITROTOLUENE	202	243	48.00-126.00	-	2,4-DINITROTOLUENE	
	2,6-DINITROTOLUENE	192	216	46.00-124.00	-	2,6-DINITROTOLUENE	
	2-CHLORONAPHTHALENE	162	185	41.00-114.00	-	2-CHLORONAPHTHALENE	
	2-CHLOROPHENOL	178	210	34.00-121.00	-	2-CHLOROPHENOL	
	2-Methylphenol (o-Cresol)	178	195	32.00-122.00	-	2-Methylphenol (o-Cresol)	
	2-NITROANILINE	190	215	44.00-127.00	-	2-NITROANILINE	
	2-NITROPHENOL	213	241	36.00-123.00	-	2-NITROPHENOL	
	3/4-Methylphenol [m/p-Cresol]	162	183	34.00-119.00	-	3/4-Methylphenol [m/p-Cresol]	
	3-NITROANILINE	189	213	33.00-119.00	-	3-NITROANILINE	
	4,6-DINITRO-2-METHYLPHENOL	232	268	29.00-132.00	-	4,6-DINITRO-2-METHYLPHENOL	
	4-BROMOPHENYL PHENYL ETHEI	175	200	46.00-124.00	-	4-BROMOPHENYL PHENYL ETH	
	4-CHLORO-3-METHYLPHENOL	212	239	45.00-122.00	-	4-CHLORO-3-METHYLPHENOL	
	4-Chloroaniline [p-Chloroaniline]	152	169	17.00-106.00	-	4-Chloroaniline [p-Chloroaniline]	
	4-CHLOROPHENYL PHENYL ETHE	200	228	45.00-121.00	-	4-CHLOROPHENYL PHENYL ETH	
	4-NITROANILINE	161	192	50.00-130.00	-	4-NITROANILINE	J+(all detects)
	4-NITROPHENOL	171	191	30.00-132.00	-	4-NITROPHENOL	
	BENZOIC ACID	360	346	40.00-117.00	-	BENZOIC ACID	
	BENZYL ALCOHOL	171	198	29.00-122.00	-	BENZYL ALCOHOL	
	bis(2-chloroethoxy) methane	157	180	36.00-121.00	-	bis(2-chloroethoxy) methane	
	BIS(2-CHLOROETHYL) ETHER	156	182	31.00-120.00	-	BIS(2-CHLOROETHYL) ETHER	
	BIS(2-CHLOROISOPROPYL)ETHE	157	182	33.00-131.00	-	BIS(2-CHLOROISOPROPYL)ETH	
	BIS(2-ETHYLHEXYL) PHTHALATE	195	221	51.00-133.00	-	BIS(2-ETHYLHEXYL) PHTHALATI	
	Butyl benzyl phthalate	188	214	48.00-132.00	-	Butyl benzyl phthalate	
	CARBAZOLE	181	202	50.00-123.00	-	CARBAZOLE	
	DIBENZOFURAN	184	206	44.00-120.00	-	DIBENZOFURAN	
	DIETHYL PHTHALATE	194	211	50.00-124.00	-	DIETHYL PHTHALATE	
	DIMETHYL PHTHALATE	187	207	48.00-124.00	-	DIMETHYL PHTHALATE	
	DI-N-BUTYL PHTHALATE	178	201	51.00-128.00	-	DI-N-BUTYL PHTHALATE	
	DI-N-OCTYL PHTHALATE	193	214	45.00-140.00	-	DI-N-OCTYL PHTHALATE	
	HEXACHLOROBENZENE	173	201	45.00-122.00	-	HEXACHLOROBENZENE	
	HEXACHLOROBUTADIENE	206	246	32.00-123.00	-	HEXACHLOROBUTADIENE	
	HEXACHLOROETHANE	167	184	28.00-117.00	-	HEXACHLOROETHANE	
	ISOPHORONE	163	181	30.00-122.00	-	ISOPHORONE	
	NITROBENZENE	176	201	34.00-122.00	-	NITROBENZENE	
	N-NITROSODIMETHYLAMINE	132	154	23.00-120.00	-	N-NITROSODIMETHYLAMINE	
	N-Nitrosodi-n-propylamine	168	188	36.00-120.00	-	N-Nitrosodi-n-propylamine	
	N-NITROSODIPHENYLAMINE	166	189	38.00-127.00	-	N-NITROSODIPHENYLAMINE	
	PENTACHLOROPHENOL	194	210	25.00-133.00	-	PENTACHLOROPHENOL	
	PHENOL	165	191	34.00-121.00	-	PHENOL	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ACENAPHTHENE NAPHTHALENE	22400 18200 7740 30400	43800 39400 3150 44700	43.00-111.00 39.00-114.00 44.00-111.00 38.00-111.00	32.71 (25.00) 34.91 (25.00) 68.98 (25.00) 36.36 (25.00)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ACENAPHTHENE NAPHTHALENE	J(all detects)
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	ACENAPHTHYLENE ANTHRACENE DIBENZO(A,H)ANTHRACENE FLUORANTHENE FLUORENE PHENANTHRENE	1510 -358000 - -12200 4800 -332000	-130 -281000 -50.4 23500 -181 9780	39.00-116.00 50.00-114.00 50.00-129.00 55.00-119.00 47.00-114.00 49.00-113.00	82.85 (25.00) 116.16 (25.00) 134.46 (25.00) 173.64 (25.00) 77.83 (25.00) 174.31 (25.00)	ACENAPHTHYLENE ANTHRACENE DIBENZO(A,H)ANTHRACENE FLUORANTHENE FLUORENE PHENANTHRENE	J(all detects) UJ(all non-detects)
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	BENZ(A)ANTHRACENE Benzo (g,h,i) perylene BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE INDENO(1,2,3-CD)PYRENE PYRENE	-60.8 - 9.64 -52.7 24.5 -11.3 33.5 -163	-176 - -51.5 -169 12.3 -146 10.1 -715	54.00-122.00 50.00-125.00 53.00-128.00 56.00-123.00 57.00-118.00 49.00-130.00 55.00-117.00	- - - - - - - -	BENZ(A)ANTHRACENE Benzo (g,h,i) perylene BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE CHRYSENE INDENO(1,2,3-CD)PYRENE PYRENE	J-(all detects) UJ(all non-detects)

Method: 6010C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
201-SB01-25MS (Dry) 201-SB01-25MSD (Dry) (201-SB01-25)	IRON	393	-369	81.00-118.00	-	IRON	J(all detects) UJ(all non-detects)
201-SB01-25MS (Dry) 201-SB01-25MSD (Dry) (201-SB01-25)	ALUMINUM MAGNESIUM MANGANESE POTASSIUM	-596 15.1 -68.9 18	-816 -4.38 -46.7 12.3	74.00-119.00 78.00-115.00 84.00-114.00 81.00-116.00	- - - -	ALUMINUM MAGNESIUM MANGANESE POTASSIUM	J-(all detects) UJ(all non-detects)
201-SB01-25MS (Dry) 201-SB01-25MSD (Dry) (201-SB01-25)	CALCIUM	214	129	81.00-116.00	-	CALCIUM	J+(all detects)
H17-SB01-05MS (Dry) H17-SB01-05MSD (Dry) (H17-SB01-05)	CALCIUM MANGANESE	356 -16.1	124 197	81.00-116.00 84.00-114.00	38.92 (20.00) -	CALCIUM MANGANESE	J(all detects) UJ(all non-detects)
H17-SB01-05MS (Dry) H17-SB01-05MSD (Dry) (H17-SB01-05)	POTASSIUM SELENIUM	- 69.2	63.5 72.4	81.00-116.00 78.00-111.00	- -	POTASSIUM SELENIUM	J-(all detects) UJ(all non-detects)
H17-SB01-05MS (Dry) H17-SB01-05MSD (Dry) (H17-SB01-05)	ALUMINUM COPPER IRON MAGNESIUM VANADIUM	4650 138 1130 - 122	5690 144 1460 171 -	74.00-119.00 81.00-117.00 81.00-118.00 78.00-115.00 82.00-114.00	- - - - -	ALUMINUM COPPER IRON MAGNESIUM VANADIUM	J+(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB05-21MS (Dry) 203-SB05-21MSD (Dry) (203-SB05-21)	ALUMINUM BARIUM IRON MAGNESIUM MANGANESE POTASSIUM	-196 72.3 -221 -20.4 45.1 15.7	7500 114 504 136 143 122	74.00-119.00 83.00-113.00 81.00-118.00 78.00-115.00 84.00-114.00 81.00-116.00	- - - - - -	ALUMINUM BARIUM IRON MAGNESIUM MANGANESE POTASSIUM	J(all detects) UJ(all non-detects)
203-SB05-21MSD (Dry) (203-SB05-21)	CALCIUM COPPER NICKEL VANADIUM	- - - -	160 130 121 116	81.00-116.00 81.00-117.00 83.00-113.00 82.00-114.00	- - - -	CALCIUM COPPER NICKEL VANADIUM	J+(all detects)

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	1,1,2,2-TETRACHLOROETHANE 1,2,3-TRICHLOROPROPANE 1,2-DIBROMO-3-CHLOROPROPAN 2-Butanone [MEK] 2-HEXANONE ACETONE BROMODICHLOROMETHANE CHLOROBENZENE	189 211 307 515 1190 1470 - -	1030 278 659 227 2670 - 167 -	70.00-124.00 73.00-125.00 61.00-132.00 51.00-148.00 53.00-145.00 36.00-164.00 75.00-127.00 79.00-120.00	142.14 (25.00) 35.68 (25.00) 80.38 (25.00) 70.04 (25.00) 84.07 (25.00) 159.29 (25.00) 53.57 (25.00) 37.24 (25.00)	1,1,2,2-TETRACHLOROETHANE 1,2,3-TRICHLOROPROPANE 1,2-DIBROMO-3-CHLOROPROPA 2-Butanone [MEK] 2-HEXANONE ACETONE BROMODICHLOROMETHANE CHLOROBENZENE	J(all detects)
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	ETHYLBENZENE VINYL ACETATE Xylene (Total)	-5830 37.2 -1630	-3800 21 -1200	76.00-122.00 50.00-151.00 78.00-124.00	139.43 (25.00) 47.55 (25.00) 112.53 (25.00)	ETHYLBENZENE VINYL ACETATE Xylene (Total)	J(all detects) UJ(all non-detects)
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	1,1,1,2-TETRACHLOROETHANE BENZENE CIS-1,2-DICHLOROETHENE STYRENE TETRACHLOROETHENE	75.5 -175 - 63 -	- -154 68 72.6 69.6	78.00-125.00 77.00-121.00 77.00-123.00 76.00-124.00 73.00-128.00	- - - - -	1,1,1,2-TETRACHLOROETHANE BENZENE CIS-1,2-DICHLOROETHENE STYRENE TETRACHLOROETHENE	J-(all detects) UJ(all non-detects)
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	1,1,2-TRICHLOROETHANE 1,2-DIBROMOETHANE 1,2-DICHLOROETHANE CHLOROMETHANE METHYLENE CHLORIDE	129 143 131 159 148	- 127 - - -	78.00-124.00 78.00-122.00 73.00-128.00 50.00-136.00 70.00-128.00	- - - - -	1,1,2-TRICHLOROETHANE 1,2-DIBROMOETHANE 1,2-DICHLOROETHANE CHLOROMETHANE METHYLENE CHLORIDE	J+(all detects)
201-SB01-25MSD (201-SB01-25)	1,2-DIBROMO-3-CHLOROPROPAN ACETONE	- -	- -	61.00-132.00 36.00-164.00	40.38 (25.00) 27.79 (25.00)	1,2-DIBROMO-3-CHLOROPROPA ACETONE	J(all detects)
201-SB01-25MS 201-SB01-25MSD (201-SB01-25)	VINYL ACETATE	25	152	50.00-151.00	148.74 (25.00)	VINYL ACETATE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
201-SB01-25MS 201-SB01-25MSD (201-SB01-25)	2-HEXANONE ETHYLBENZENE STYRENE Xylene (Total)	0 - 61.2 -	0 75.9 60.3 75.6	53.00-145.00 76.00-122.00 76.00-124.00 78.00-124.00	- - - -	2-HEXANONE ETHYLBENZENE STYRENE Xylene (Total)	J-(all detects) UJ(all non-detects)
201-SB01-25MS 201-SB01-25MSD (201-SB01-25)	2-Butanone [MEK]	154	163	51.00-148.00	-	2-Butanone [MEK]	J+(all detects)
H17-SB01-05MS H17-SB01-05MSD (H17-SB01-05)	1,2-DIBROMO-3-CHLOROPROPAN ACETONE	233 199	158 1000	61.00-132.00 36.00-164.00	31.81 (25.00) 118.36 (25.00)	1,2-DIBROMO-3-CHLOROPROPA ACETONE	J(all detects)
H17-SB01-05MS H17-SB01-05MSD (H17-SB01-05)	VINYL ACETATE	165	28.8	50.00-151.00	136.98 (25.00)	VINYL ACETATE	J(all detects) UJ(all non-detects)
H17-SB01-05MS H17-SB01-05MSD (H17-SB01-05)	CHLOROBENZENE CHLORODIBROMOMETHANE ETHYLBENZENE STYRENE TETRACHLOROETHENE TOLUENE Xylene (Total)	- - - 67.7 - - -	72 71.9 70.8 53.3 68.9 75.7 68.1	79.00-120.00 74.00-126.00 76.00-122.00 76.00-124.00 73.00-128.00 77.00-121.00 78.00-124.00	- - - - - - -	CHLOROBENZENE CHLORODIBROMOMETHANE ETHYLBENZENE STYRENE TETRACHLOROETHENE TOLUENE Xylene (Total)	J-(all detects) UJ(all non-detects)
H17-SB01-05MS H17-SB01-05MSD (H17-SB01-05)	1,2,3-TRICHLOROPROPANE 2-Butanone [MEK] 2-HEXANONE	126 174 240	- 206 218	73.00-125.00 51.00-148.00 53.00-145.00	- - -	1,2,3-TRICHLOROPROPANE 2-Butanone [MEK] 2-HEXANONE	J+(all detects)

Method: 8260C-ME
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
203-SB05-21MSD (203-SB05-21)	Trichlorofluoromethane [Freon-11]	-	-	62.00-140.00	27.09 (25.00)	Trichlorofluoromethane [Freon-11]	J(all detects)
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	1,2,3-TRICHLOROPROPANE CHLOROETHANE	49 28.8	- 58.3	73.00-125.00 59.00-139.00	80.92 (25.00) 67.74 (25.00)	1,2,3-TRICHLOROPROPANE CHLOROETHANE	J(all detects) UJ(all non-detects)
203-SB05-21MS 203-SB05-21MSD (203-SB05-21)	1,1,2,2-TETRACHLOROETHANE 1,2-DIBROMO-3-CHLOROPROPAN 2-HEXANONE	232 222 169	221 213 167	70.00-124.00 61.00-132.00 53.00-145.00	- - -	1,1,2,2-TETRACHLOROETHANE 1,2-DIBROMO-3-CHLOROPROPA 2-HEXANONE	J+(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40266 (201-SB01-10 201-SB01-25 203-SB01-10 203-SB01-12 203-SB02-02 203-SB03-04 203-SB03-05 203-SB04-11 203-SB04-14 203-SB05-05 203-SB05-21 H17-SB01-05 H17-SB02-05 H17-SB03-05 WDS-SB18-12 WDS-SB19-12)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE BENZOIC ACID PENTACHLOROPHENOL	16.4 0 12.2 14.4	- - - -	50.00-130.00 22.00-121.00 40.00-117.00 25.00-133.00	- - - -	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE BENZOIC ACID PENTACHLOROPHENOL	J- (all detects) UJ (all non-detects)

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA10 LCSD 06231 (203-SB01-12 203-SB02-02 WDS-SB18-12 WDS-SB19-12)	2-Butanone [MEK]	-	0	51.00-148.00	200 (25.00)	2-Butanone [MEK]	J(all detects) UJ(all non-detects)
VOA10 LCS 062316 VOA10 LCSD 06231 (203-SB01-12 203-SB02-02 WDS-SB18-12 WDS-SB19-12)	CIS-1,3-DICHLOROPROPENE STYRENE TRANS-1,3-DICHLOROPROPENE	73.9 73.1 -	73 - 70.6	74.00-126.00 76.00-124.00 71.00-130.00	- - -	CIS-1,3-DICHLOROPROPENE STYRENE TRANS-1,3-DICHLOROPROPENE	J-(all detects) UJ(all non-detects)
VOA10 LCS 062316 (203-SB01-12 203-SB02-02 WDS-SB18-12 WDS-SB19-12)	METHYLENE CHLORIDE	130	-	70.00-128.00	-	METHYLENE CHLORIDE	J+(all detects)
VOA11B LCS 06291 VOA11B LCSD 0629 (201-SB01-10 201-SB01-25 203-SB01-10 203-SB03-04 203-SB03-05 203-SB04-11 203-SB04-14 203-SB05-05 203-SB05-21 H17-SB01-05 H17-SB02-05 H17-SB03-05 TB-SO-061616-01)	1,2-DIBROMO-3-CHLOROPROPAN 2-Butanone [MEK]	351 259	182 159	61.00-132.00 51.00-148.00	63.29 (25.00) 47.88 (25.00)	1,2-DIBROMO-3-CHLOROPROPA 2-Butanone [MEK]	J(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06291 VOA11B LCSD 0629 (201-SB01-10 201-SB01-25 203-SB01-10 203-SB03-04 203-SB03-05 203-SB04-11 203-SB04-14 203-SB05-05 203-SB05-21 H17-SB01-05 H17-SB02-05 H17-SB03-05 TB-SO-061616-01)	ACETONE	0	0	36.00-164.00	-	ACETONE	J-(all detects) UJ(all non-detects)
VOA11B LCS 06291 VOA11B LCSD 0629 (201-SB01-10 201-SB01-25 203-SB01-10 203-SB03-04 203-SB03-05 203-SB04-11 203-SB04-14 203-SB05-05 203-SB05-21 H17-SB01-05 H17-SB02-05 H17-SB03-05 TB-SO-061616-01)	2-HEXANONE CHLOROMETHANE METHYLENE CHLORIDE	1450 - -	1230 142 155	53.00-145.00 50.00-136.00 70.00-128.00	- - -	2-HEXANONE CHLOROMETHANE METHYLENE CHLORIDE	J+(all detects)

Method: 8260C-ME
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS2 0629 (203-SB05-21)	CHLOROETHANE	15.6	-	59.00-139.00	-	CHLOROETHANE	J-(all detects) UJ(all non-detects)
VOA11B LCS2 0629 (203-SB05-21)	CHLOROMETHANE METHYLENE CHLORIDE	140 133	- -	50.00-136.00 70.00-128.00	- -	CHLOROMETHANE METHYLENE CHLORIDE	J+(all detects)

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-SO-061616-01(Initial)	6/16/2016 8:05:00 AM	2-HEXANONE CHLOROMETHANE METHYLENE CHLORIDE	0.033 mg/Kg 0.0016 mg/Kg 0.0096 mg/Kg	201-SB01-10 201-SB01-25 203-SB01-10 203-SB01-12 203-SB02-02 203-SB03-04 203-SB03-05 203-SB04-11 203-SB04-14 203-SB05-05 203-SB05-21 H17-SB01-05 H17-SB02-05 H17-SB03-05 WDS-SB18-12 WDS-SB19-12

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
201-SB01-10(Initial)	CHLOROMETHANE	0.0018 mg/Kg	0.0018U mg/Kg
201-SB01-10(Initial)	METHYLENE CHLORIDE	0.0065 mg/Kg	0.0065U mg/Kg
201-SB01-25(Initial)	CHLOROMETHANE	0.0014 mg/Kg	0.0014U mg/Kg
201-SB01-25(Initial)	METHYLENE CHLORIDE	0.0032 mg/Kg	0.0051U mg/Kg
203-SB01-10(Initial)	CHLOROMETHANE	0.0014 mg/Kg	0.0014U mg/Kg
203-SB03-04(Initial)	CHLOROMETHANE	0.0014 mg/Kg	0.0014U mg/Kg
203-SB03-05(Initial)	CHLOROMETHANE	0.0013 mg/Kg	0.0013U mg/Kg
203-SB04-11(Initial)	CHLOROMETHANE	0.0012 mg/Kg	0.0012U mg/Kg
203-SB04-14(Initial)	CHLOROMETHANE	0.0011 mg/Kg	0.0011U mg/Kg
203-SB04-14(Initial)	METHYLENE CHLORIDE	0.00090 mg/Kg	0.0042U mg/Kg
203-SB05-05(Initial)	CHLOROMETHANE	0.0013 mg/Kg	0.0013U mg/Kg
203-SB05-21(Initial)	CHLOROMETHANE	0.0015 mg/Kg	0.0015U mg/Kg
H17-SB01-05(Initial)	CHLOROMETHANE	0.0012 mg/Kg	0.0012U mg/Kg
H17-SB01-05(Initial)	METHYLENE CHLORIDE	0.0012 mg/Kg	0.0046U mg/Kg
H17-SB02-05(Initial)	CHLOROMETHANE	0.0014 mg/Kg	0.0014U mg/Kg
H17-SB02-05(Initial)	METHYLENE CHLORIDE	0.0011 mg/Kg	0.0051U mg/Kg
H17-SB03-05(Initial)	CHLOROMETHANE	0.0014 mg/Kg	0.0014U mg/Kg
WDS-SB19-12(Initial)	METHYLENE CHLORIDE	0.0033 mg/Kg	0.0048U mg/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
201-SB01-10	ARSENIC CADMIUM LEAD	J J J	1.3 0.030 1.1	1.4 0.18 3.5	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
201-SB01-25	BERYLLIUM LEAD	J J	0.014 0.97	0.17 3.4	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
203-SB01-10	BERYLLIUM LEAD	J J	0.051 1.7	0.17 3.5	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
203-SB01-12	BERYLLIUM CADMIUM LEAD	J J J	0.11 0.055 2.2	0.18 0.18 3.5	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
203-SB02-02	BERYLLIUM LEAD	J J	0.15 2.3	0.17 3.4	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
203-SB03-04	BERYLLIUM LEAD	J J	0.060 1.8	0.17 3.4	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
203-SB03-05	BERYLLIUM CADMIUM LEAD	J J J	0.14 0.031 3.0	0.17 0.17 3.4	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
203-SB04-11	LEAD	J	3.1	3.6	LOQ	mg/Kg	J (all detects)
203-SB04-14	ARSENIC BERYLLIUM CADMIUM LEAD	J J J J	1.1 0.084 0.023 2.8	1.3 0.17 0.17 3.4	LOQ LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg mg/Kg	J (all detects)
203-SB05-05	BERYLLIUM	J	0.11	0.19	LOQ	mg/Kg	J (all detects)
203-SB05-21	ARSENIC CADMIUM LEAD	J J J	1.6 0.032 3.5	1.7 0.22 4.3	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H17-SB01-05	CADMIUM LEAD	J J	0.031 2.2	0.18 3.6	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H17-SB02-05	BERYLLIUM CADMIUM LEAD	J J J	0.084 0.055 3.5	0.19 0.19 3.8	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H17-SB03-05	BERYLLIUM CADMIUM	J J	0.13 0.060	0.18 0.18	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB18-12	ARSENIC BERYLLIUM CADMIUM LEAD	J J J J	1.2 0.067 0.025 1.9	1.4 0.18 0.18 3.6	LOQ LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg mg/Kg	J (all detects)
WDS-SB19-12	ARSENIC BERYLLIUM LEAD NICKEL	J J J J	0.95 0.025 0.61 2.2	1.5 0.18 3.7 3.7	LOQ LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606652 **Laboratory: RTILABS**

EDD Filename: EDD_1606652_SEDD_2a_v15_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
201-SB01-10	THALLIUM	J	0.062	0.14	LOQ	mg/Kg	J (all detects)
201-SB01-25	THALLIUM	J	0.077	0.13	LOQ	mg/Kg	J (all detects)
203-SB01-10	THALLIUM	J	0.13	0.14	LOQ	mg/Kg	J (all detects)
203-SB01-12	THALLIUM	J	0.13	0.15	LOQ	mg/Kg	J (all detects)
203-SB02-02	THALLIUM	J	0.12	0.14	LOQ	mg/Kg	J (all detects)
203-SB03-05	THALLIUM	J	0.11	0.14	LOQ	mg/Kg	J (all detects)
H17-SB01-05	THALLIUM	J	0.089	0.15	LOQ	mg/Kg	J (all detects)
H17-SB02-05	THALLIUM	J	0.090	0.15	LOQ	mg/Kg	J (all detects)
H17-SB03-05	THALLIUM	J	0.12	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB18-12	THALLIUM	J	0.099	0.14	LOQ	mg/Kg	J (all detects)

Method: 8260C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
201-SB01-25	ACETONE METHYLENE CHLORIDE	JQ JQ	0.0023 0.0032	0.010 0.0051	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
203-SB03-04	ACETONE	JQ	0.0058	0.0093	LOQ	mg/Kg	J (all detects)
203-SB04-11	ACETONE	JQ	0.0060	0.0097	LOQ	mg/Kg	J (all detects)
203-SB04-14	METHYLENE CHLORIDE	JQ	0.00090	0.0042	LOQ	mg/Kg	J (all detects)
H17-SB01-05	METHYLENE CHLORIDE	JQ	0.0012	0.0046	LOQ	mg/Kg	J (all detects)
H17-SB02-05	2-Butanone [MEK] METHYLENE CHLORIDE	JQ JQ	0.0064 0.0011	0.020 0.0051	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB18-12	ACETONE	JZ	0.0020	0.0089	LOQ	mg/Kg	J (all detects)
WDS-SB19-12	CARBON DISULFIDE METHYLENE CHLORIDE	J JBQ	0.00082 0.0033	0.00096 0.0048	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Method: 8270D-MOD

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB04-11	3-NITROANILINE	J	0.014	0.35	LOQ	mg/Kg	J (all detects)
203-SB05-05	BENZOIC ACID	JYQZ	0.50	1.1	LOQ	mg/Kg	J (all detects)
203-SB05-21	CARBAZOLE	JX	0.18	0.21	LOQ	mg/Kg	J (all detects)
H17-SB01-05	DI-N-OCTYL PHTHALATE	JX	0.020	0.18	LOQ	mg/Kg	J (all detects)
WDS-SB19-12	CARBAZOLE DIBENZOFURAN	J J	0.12 0.069	0.18 0.18	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606675		
Date(s) of Collection:	June 17th, 2016 – June 19th, 2016		
Number/Type Samples & Analyses:	11 groundwater samples and 4 trip blanks for a project-specific list of VOCs, SVOCs, PCBs, energetics, and metals		
Data Reviewer:	Zach Neigh AECOM/Baltimore, MD		
Completed:	August 30, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for ground water data included in Sample Delivery Group (SDG) 1606675. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

NA Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

Sample ID: **034-SB01-GW** ***Collected:*** **6/19/2016 9:47:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	1.3	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: **203-SB01-GW** ***Collected:*** **6/20/2016 11:15:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.28	J	0.50	LOD	1.0	LOQ	ug/L	J	RI
SELENIUM	2.5	J	2.5	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.42	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: **H16-SB01-GW** ***Collected:*** **6/19/2016 2:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	4.4	J	2.5	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.59	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: **H21-SB01-GW** ***Collected:*** **6/19/2016 12:30:00 PM** ***Analysis Type:*** **Dilution-1/TOT** ***Dilution:*** **50**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	4700		25	LOD	500	LOQ	ug/L	J+	Ms
SODIUM	21000		1200	LOD	5000	LOQ	ug/L	J-	Ms

Sample ID: **H21-SB01-GW** ***Collected:*** **6/19/2016 12:30:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	6.3	J	0.50	LOD	10	LOQ	ug/L	J	RI
MAGNESIUM	4500	X	120	LOD	500	LOQ	ug/L	J-	Ms
ZINC	11	J	2.5	LOD	50	LOQ	ug/L	J	RI

Sample ID: **H21-SB01-GW** ***Collected:*** **6/19/2016 12:30:00 PM** ***Analysis Type:*** **Reanalysis-1/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	4.1	J	0.50	LOD	5.0	LOQ	ug/L	J	RI
NICKEL	9.8	J	0.50	LOD	10	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A **Matrix: Water**

Sample ID: H21-SB02-GW **Collected:** 6/19/2016 10:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	1.3	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: H21-SB03-GW **Collected:** 6/19/2016 2:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.86	J	0.50	LOD	1.0	LOQ	ug/L	J	RI
THALLIUM	0.94	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: WDS-SB09-GW **Collected:** 6/17/2016 11:15:00 AM **Analysis Type:** Reanalysis-1/TOT **Dilution:** 500

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	43	J	50	LOD	100	LOQ	ug/L	J	RI

Sample ID: WDS-SB11-GW **Collected:** 6/17/2016 1:30:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.48	J	0.50	LOD	1.0	LOQ	ug/L	J	RI
SELENIUM	3.3	J	2.5	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.52	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Method Category: METALS

Method: 6020A-SA **Matrix: Water**

Sample ID: 034-SB01-GW **Collected:** 6/19/2016 9:47:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.2	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI
SILVER	0.74	J	0.50	LOD	1.5	LOQ	ug/L	J	RI

Sample ID: 203-SB01-GW **Collected:** 6/20/2016 11:15:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.23	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A-SA** ***Matrix:*** **Water**

Sample ID: **H16-SB01-GW** ***Collected:*** **6/19/2016 2:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.68	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI
SILVER	0.74	J	0.50	LOD	1.5	LOQ	ug/L	J	RI

Sample ID: **H21-SB02-GW** ***Collected:*** **6/19/2016 10:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.60	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI
SILVER	0.43	J	0.50	LOD	1.5	LOQ	ug/L	J	RI

Sample ID: **H21-SB03-GW** ***Collected:*** **6/19/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.34	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI
SILVER	0.29	J	0.50	LOD	1.5	LOQ	ug/L	J	RI

Sample ID: **WDS-SB06-GW** ***Collected:*** **6/17/2016 2:20:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.94	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI
SILVER	0.34	J	0.50	LOD	1.5	LOQ	ug/L	J	RI

Sample ID: **WDS-SB07-GW** ***Collected:*** **6/19/2016 11:15:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.66	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI
SILVER	0.88	J	0.50	LOD	1.5	LOQ	ug/L	J	RI

Sample ID: **WDS-SB09-GW** ***Collected:*** **6/17/2016 11:15:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.9	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS
Method: 6020A-SA **Matrix:** Water

Sample ID: WDS-SB11-GW **Collected:** 6/17/2016 1:30:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.0	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI
SILVER	0.28	J	0.50	LOD	1.5	LOQ	ug/L	J	RI

Method Category: SVOA
Method: 8082A **Matrix:** Water

Sample ID: 034-SB01-GW **Collected:** 6/19/2016 9:47:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr
AROCLOR 1221	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr
AROCLOR 1232	0.038	U	0.038	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1242	0.037	U	0.037	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1248	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr
AROCLOR 1254	0.037	U	0.037	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1260	0.037	U	0.037	LOD	0.19	LOQ	ug/L	UJ	Surr
Aroclor 1262	0.093	U	0.093	LOD	0.19	LOQ	ug/L	UJ	Surr
Aroclor 1268	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr

Sample ID: H16-SB01-GW **Collected:** 6/19/2016 2:45:00 PM **Analysis Type:** Reanalysis-1/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr
AROCLOR 1221	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr
AROCLOR 1232	0.038	U	0.038	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1242	0.037	U	0.037	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1248	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr
AROCLOR 1254	0.037	U	0.037	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1260	0.037	U	0.037	LOD	0.19	LOQ	ug/L	UJ	Surr
Aroclor 1262	0.093	U	0.093	LOD	0.19	LOQ	ug/L	UJ	Surr
Aroclor 1268	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA
Method: 8082A **Matrix:** Water

Sample ID: WDS-SB07-GW **Collected:** 6/19/2016 11:15:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.043	U	0.043	LOD	0.11	LOQ	ug/L	UJ	Surr
AROCLOR 1221	0.043	U	0.043	LOD	0.11	LOQ	ug/L	UJ	Surr
AROCLOR 1232	0.044	U	0.044	LOD	0.22	LOQ	ug/L	UJ	Surr
AROCLOR 1242	0.043	U	0.043	LOD	0.22	LOQ	ug/L	UJ	Surr
AROCLOR 1248	0.043	U	0.043	LOD	0.11	LOQ	ug/L	UJ	Surr
AROCLOR 1254	0.043	U	0.043	LOD	0.22	LOQ	ug/L	UJ	Surr
AROCLOR 1260	0.043	U	0.043	LOD	0.22	LOQ	ug/L	UJ	Surr
Aroclor 1262	0.11	U	0.11	LOD	0.22	LOQ	ug/L	UJ	Surr
Aroclor 1268	0.043	U	0.043	LOD	0.11	LOQ	ug/L	UJ	Surr

Method Category: SVOA
Method: 8270D SIM **Matrix:** Water

Sample ID: 034-SB01-GW **Collected:** 6/19/2016 9:47:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.11		0.019	LOD	0.019	LOQ	ug/L	J+	Surr
2-METHYLNAPHTHALENE	0.20		0.019	LOD	0.019	LOQ	ug/L	J+	Surr
BENZO(B)FLUORANTHENE	0.037		0.019	LOD	0.019	LOQ	ug/L	J+	Surr
FLUORANTHENE	0.035		0.019	LOD	0.019	LOQ	ug/L	J+	Surr
FLUORENE	0.071		0.019	LOD	0.019	LOQ	ug/L	J+	Surr
NAPHTHALENE	0.095		0.019	LOD	0.019	LOQ	ug/L	J+	Surr
PHENANTHRENE	0.051		0.019	LOD	0.019	LOQ	ug/L	J+	Surr
PYRENE	0.031		0.019	LOD	0.019	LOQ	ug/L	J+	Surr

Sample ID: H21-SB01-GW **Collected:** 6/19/2016 12:30:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.026		0.020	LOD	0.020	LOQ	ug/L	J+	Surr
2-METHYLNAPHTHALENE	0.041		0.020	LOD	0.020	LOQ	ug/L	J+	Surr
BENZ(A)ANTHRACENE	0.059		0.020	LOD	0.020	LOQ	ug/L	J+	Lcs, Surr
BENZO(A)PYRENE	0.039		0.020	LOD	0.020	LOQ	ug/L	J+	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix: Water**

Sample ID: H21-SB01-GW **Collected:** 6/19/2016 12:30:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.074		0.020	LOD	0.020	LOQ	ug/L	J+	Surr
BENZO(K)FLUORANTHENE	0.037		0.020	LOD	0.020	LOQ	ug/L	J+	Surr
CHRYSENE	0.049		0.020	LOD	0.020	LOQ	ug/L	J+	Surr
FLUORANTHENE	0.060		0.020	LOD	0.020	LOQ	ug/L	J+	Surr
FLUORENE	0.025		0.020	LOD	0.020	LOQ	ug/L	J+	Surr
NAPHTHALENE	0.046		0.020	LOD	0.020	LOQ	ug/L	J+	Surr
PHENANTHRENE	0.040		0.020	LOD	0.020	LOQ	ug/L	J+	Surr
PYRENE	0.053		0.020	LOD	0.020	LOQ	ug/L	J+	Surr

Sample ID: WDS-SB06-GW **Collected:** 6/17/2016 2:20:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.20		0.019	LOD	0.019	LOQ	ug/L	J+	Lcs

Sample ID: WDS-SB07-GW **Collected:** 6/19/2016 11:15:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.059		0.020	LOD	0.020	LOQ	ug/L	J+	Lcs

Sample ID: WDS-SB09-GW **Collected:** 6/17/2016 11:15:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.48		0.39	LOD	0.39	LOQ	ug/L	J+	Lcs

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: 203-SB01-GW **Collected:** 6/20/2016 11:15:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	10	UQ	10	LOD	25	LOQ	ug/L	UJ	Lcs, Lcs
BENZOIC ACID	10	UYQZ	10	LOD	25	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **203-SB01-GW** ***Collected:*** **6/20/2016 11:15:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PENTACHLOROPHENOL	2.5	UYQ	2.5	LOD	5.0	LOQ	ug/L	UJ	Lcs
PHENOL	0.50	UQ	0.50	LOD	5.0	LOQ	ug/L	UJ	Lcs

Sample ID: **203-SB01-GW** ***Collected:*** **6/20/2016 11:15:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL)ETHER	0.50	UYZ	0.50	LOD	5.0	LOQ	ug/L	UJ	Lcs
DIETHYL PHTHALATE	0.19	J	0.50	LOD	5.0	LOQ	ug/L	J	RI
N-NITROSODIMETHYLAMINE	0.50	UYQ	0.50	LOD	5.0	LOQ	ug/L	UJ	Lcs

Sample ID: **H16-SB01-GW** ***Collected:*** **6/19/2016 2:45:00 PM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.4	JYQZ	2.4	LOD	24	LOQ	ug/L	J	RI, Lcs
PHENOL	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: **H16-SB01-GW** ***Collected:*** **6/19/2016 2:45:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: **H21-SB01-GW** ***Collected:*** **6/19/2016 12:30:00 PM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.7	UQ	9.7	LOD	24	LOQ	ug/L	UJ	Lcs, Lcs
BENZOIC ACID	9.7	UYQZ	9.7	LOD	24	LOQ	ug/L	UJ	Lcs
PENTACHLOROPHENOL	2.4	UYQ	2.4	LOD	4.9	LOQ	ug/L	UJ	Lcs
PHENOL	0.49	UQ	0.49	LOD	4.9	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: H21-SB01-GW **Collected:** 6/19/2016 12:30:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL)ETHER	0.49	UYZ	0.49	LOD	4.9	LOQ	ug/L	UJ	Lcs
DIETHYL PHTHALATE	0.49	J	0.49	LOD	4.9	LOQ	ug/L	J	RI
N-NITROSODIMETHYLAMINE	0.49	UYQ	0.49	LOD	4.9	LOQ	ug/L	UJ	Lcs

Sample ID: H21-SB02-GW **Collected:** 6/19/2016 10:00:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	2.4	UYQZ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
PHENOL	0.97	UQ	0.97	LOD	4.9	LOQ	ug/L	UJ	Lcs

Sample ID: H21-SB02-GW **Collected:** 6/19/2016 10:00:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.97	UQ	0.97	LOD	4.9	LOQ	ug/L	UJ	Lcs

Sample ID: H21-SB03-GW **Collected:** 6/19/2016 2:00:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	2.4	UYQZ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
PHENOL	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: H21-SB03-GW **Collected:** 6/19/2016 2:00:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYL PHTHALATE	0.94	J	0.95	LOD	4.8	LOQ	ug/L	J	RI
N-NITROSODIMETHYLAMINE	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: MP-SB02-GW **Collected:** 6/19/2016 8:15:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.6	UQ	9.6	LOD	24	LOQ	ug/L	UJ	Lcs, Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: MP-SB02-GW **Collected:** 6/19/2016 8:15:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	9.6	UYQZ	9.6	LOD	24	LOQ	ug/L	UJ	Lcs
PENTACHLOROPHENOL	2.4	UYQ	2.4	LOD	4.8	LOQ	ug/L	UJ	Lcs
PHENOL	0.48	UQ	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: MP-SB02-GW **Collected:** 6/19/2016 8:15:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL)ETHER	0.48	UYZ	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs
N-NITROSODIMETHYLAMINE	0.48	UYQ	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB06-GW **Collected:** 6/17/2016 2:20:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	19	JYQZ	2.4	LOD	24	LOQ	ug/L	J	Rl, Lcs
PHENOL	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB06-GW **Collected:** 6/17/2016 2:20:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	2.1	J	0.94	LOD	4.7	LOQ	ug/L	J	Rl
DIBENZOFURAN	1.6	J	0.94	LOD	3.8	LOQ	ug/L	J	Rl
N-NITROSODIMETHYLAMINE	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB07-GW **Collected:** 6/19/2016 11:15:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	10	UQ	10	LOD	25	LOQ	ug/L	UJ	Lcs, Lcs
BENZOIC ACID	9.5	JYQZ	10	LOD	25	LOQ	ug/L	J	Rl, Lcs
PENTACHLOROPHENOL	2.5	UYQ	2.5	LOD	5.0	LOQ	ug/L	UJ	Lcs
PHENOL	0.50	UQ	0.50	LOD	5.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: WDS-SB07-GW **Collected:** 6/19/2016 11:15:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL)ETHER	0.50	UYZ	0.50	LOD	5.0	LOQ	ug/L	UJ	Lcs
N-NITROSODIMETHYLAMINE	0.50	UYQ	0.50	LOD	5.0	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB09-GW **Collected:** 6/17/2016 11:15:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.5	UQ	2.5	LOD	25	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	2.5	UYQZ	2.5	LOD	25	LOQ	ug/L	UJ	Lcs
PHENOL	0.98	UQ	0.98	LOD	4.9	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB09-GW **Collected:** 6/17/2016 11:15:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.98	UQ	0.98	LOD	4.9	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB11-GW **Collected:** 6/17/2016 1:30:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	8.8	JYQZ	2.4	LOD	24	LOQ	ug/L	J	RI, Lcs
PHENOL	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB11-GW **Collected:** 6/17/2016 1:30:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: VOA

Method: 8260C **Matrix:** Water

Sample ID: 203-SB01-GW **Collected:** 6/20/2016 11:15:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	5.1	J	0.60	LOD	10	LOQ	ug/L	U	Tb

Sample ID: H16-SB01-GW **Collected:** 6/19/2016 2:45:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	2.1	J	0.60	LOD	10	LOQ	ug/L	U	Tb

Sample ID: H21-SB01-GW **Collected:** 6/19/2016 12:30:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	3.6	J	5.0	LOD	10	LOQ	ug/L	J	RI
ACETONE	3.6	J	0.60	LOD	10	LOQ	ug/L	U	Tb

Sample ID: H21-SB02-GW **Collected:** 6/19/2016 10:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	3.3	J	0.60	LOD	10	LOQ	ug/L	U	Tb

Sample ID: H21-SB03-GW **Collected:** 6/19/2016 2:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.4	J	1.0	LOD	2.0	LOQ	ug/L	J	RI
ACETONE	8.0	J	0.60	LOD	10	LOQ	ug/L	U	Tb

Sample ID: MP-SB02-GW **Collected:** 6/19/2016 8:15:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	5.9	J	0.60	LOD	10	LOQ	ug/L	U	Tb

Sample ID: TB-GW-061716-03 **Collected:** 6/17/2016 8:20:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	1.5	JY	0.60	LOD	10	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **TB-GW-061916-01** ***Collected:*** **6/19/2016 8:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	5.8	JY	0.60	LOD	10	LOQ	ug/L	J	RI

Sample ID: **TB-GW-061916-02** ***Collected:*** **6/19/2016 8:10:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	1.7	JY	0.60	LOD	10	LOQ	ug/L	J	RI

Sample ID: **TB-GW-062016-01** ***Collected:*** **6/20/2016 8:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	4.7	J	0.60	LOD	10	LOQ	ug/L	J	RI

Sample ID: **WDS-SB06-GW** ***Collected:*** **6/17/2016 2:20:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.1	J	0.60	LOD	10	LOQ	ug/L	U	Tb

Sample ID: **WDS-SB07-GW** ***Collected:*** **6/19/2016 11:15:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
1,1,1-TRICHLOROETHANE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
1,1,2,2-TETRACHLOROETHANE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
1,1,2-TRICHLOROETHANE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
1,1-DICHLOROETHANE	5.0	UH	5.0	LOD	10	LOQ	ug/L	UJ	StoA
1,1-DICHLOROETHENE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
1,2,3-TRICHLOROPROPANE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
1,2-DIBROMO-3-CHLOROPROPANE	10	UZH	10	LOD	25	LOQ	ug/L	UJ	StoA
1,2-DIBROMOETHANE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
1,2-DICHLOROETHANE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
1,2-DICHLOROPROPANE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
2-Butanone [MEK]	25	UH	25	LOD	50	LOQ	ug/L	UJ	StoA
2-HEXANONE	5.0	UH	5.0	LOD	10	LOQ	ug/L	UJ	StoA

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **WDS-SB07-GW** ***Collected:*** **6/19/2016 11:15:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	3.0	UH	3.0	LOD	50	LOQ	ug/L	UJ	StoA
BENZENE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
BROMODICHLOROMETHANE	3.0	UQXH	3.0	LOD	5.0	LOQ	ug/L	UJ	Ms, Lcs, StoA
BROMOFORM	3.0	UXZH	3.0	LOD	5.0	LOQ	ug/L	UJ	Ms, StoA
CARBON DISULFIDE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
CARBON TETRACHLORIDE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
CHLOROBENZENE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
CHLORODIBROMOMETHANE	3.0	UQXH	3.0	LOD	5.0	LOQ	ug/L	UJ	Ms, Lcs, StoA
CHLOROETHANE	5.0	UH	5.0	LOD	10	LOQ	ug/L	UJ	StoA
CHLOROFORM	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
CHLOROMETHANE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
CIS-1,2-DICHLOROETHENE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
CIS-1,3-DICHLOROPROPENE	3.0	UXH	3.0	LOD	5.0	LOQ	ug/L	UJ	Ms, StoA
Dichlorodifluoromethane [Freon-12]	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
ETHYLBENZENE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
METHYLENE CHLORIDE	3.4	JH	3.0	LOD	25	LOQ	ug/L	UJ	Mb, StoA
STYRENE	3.0	UQXH	3.0	LOD	5.0	LOQ	ug/L	UJ	Ms, Lcs, StoA
TETRACHLOROETHENE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
TOLUENE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
TRANS-1,2-DICHLOROETHENE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
TRANS-1,3-DICHLOROPROPENE	3.0	UZH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
TRICHLOROETHENE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
Trichlorofluoromethane [Freon-11]	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
VINYL ACETATE	3.0	UH	3.0	LOD	25	LOQ	ug/L	UJ	StoA
VINYL CHLORIDE	3.0	UH	3.0	LOD	5.0	LOQ	ug/L	UJ	StoA
Xylene (Total)	9.0	UH	9.0	LOD	15	LOQ	ug/L	UJ	StoA

Sample ID: **WDS-SB11-GW** ***Collected:*** **6/17/2016 1:30:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	2.5	J	0.60	LOD	10	LOQ	ug/L	U	Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value
StoA	Sampling to Analysis Estimation
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	SR
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C **Preparation Method: 5030B**

Matrix: Water

Sample ID	Type	Actual	Criteria	Units	Flag
WDS-SB07-GW (Initial/TOT)	Sampling To Analysis	23.00	14.00	DAYS	J- (all detects)
WDS-SB07-GWMS (Initial/TOT)		23.00	14.00	DAYS	UJ (all non-detects)
WDS-SB07-GWMSD (Initial/TOT)		23.00	14.00	DAYS	

Project Name and Number: - USACE Project:

Method Blank Outlier Report

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK 0712	7/12/2016 3:16:00 PM	ACETONE METHYLENE CHLORIDE	2.0 ug/L 0.48 ug/L	WDS-SB07-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
WDS-SB07-GW(Initial/TOT)	METHYLENE CHLORIDE	3.4 ug/L	25U ug/L

Method: **8330B**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40253	6/30/2016 12:23:36 AM	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.7 ug/L	MP-SB02-GW

Surrogate Outlier Report

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
034-SB01-GW (Initial/TOT)	DECACHLOROBIPHENYL	28.9	40.00-135.00	All Target Analytes	J- (all detects) UJ (all non-detects)
H16-SB01-GW (Reanalysis-1/TOT)	DECACHLOROBIPHENYL	16.8	40.00-135.00	All Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB07-GW (Initial/TOT)	DECACHLOROBIPHENYL	23.1	40.00-135.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D SIM
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
034-SB01-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	149 182 162	44.00-119.00 44.00-120.00 50.00-134.00	All Base/Neutral Target Analytes	J+(all detects)
203-SB01-GW (Initial/TOT)	Terphenyl-d14	225	50.00-134.00	All Base/Neutral Target Analytes	J+(all detects)
H21-SB01-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	129 140 168	44.00-119.00 44.00-120.00 50.00-134.00	All Base/Neutral Target Analytes	J+(all detects)
H21-SB02-GW (Initial/TOT)	Terphenyl-d14	256	50.00-134.00	All Base/Neutral Target Analytes	J+(all detects)
H21-SB03-GW (Initial/TOT)	Terphenyl-d14	190	50.00-134.00	All Base/Neutral Target Analytes	J+(all detects)

Method: 8270D-MOD
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB01-GW (Initial/TOT)	PHENOL-D5	21	30.00-130.00	No Affected Compounds	
H16-SB01-GW (Initial/TOT)	PHENOL-D5	24.5	30.00-130.00	No Affected Compounds	
H21-SB01-GW (Initial/TOT)	PHENOL-D5	18.1	30.00-130.00	No Affected Compounds	
H21-SB02-GW (Initial/TOT)	PHENOL-D5	22.2	30.00-130.00	No Affected Compounds	
H21-SB03-GW (Initial/TOT)	2-FLUOROBIPHENYL PHENOL-D5	43.4 17.7	44.00-119.00 30.00-130.00	No Affected Compounds	
MP-SB02-GW (Initial/TOT)	PHENOL-D5	20.2	30.00-130.00	No Affected Compounds	
WDS-SB06-GW (Initial/TOT)	PHENOL-D5 Terphenyl-d14	19.1 31.8	30.00-130.00 50.00-134.00	No Affected Compounds	
WDS-SB07-GW (Initial/TOT)	PHENOL-D5	22.7	30.00-130.00	No Affected Compounds	

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Surrogate Outlier Report

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Water**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
WDS-SB09-GW (Initial/TOT)	PHENOL-D5	25	30.00-130.00	No Affected Compounds	
WDS-SB11-GW (Initial/TOT)	PHENOL-D5	17.5	30.00-130.00	No Affected Compounds	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A
Matrix: Water

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H21-SB01-GWMSD (Total) (H21-SB01-GW)	MAGNESIUM SODIUM	- -	81.9 67.2	83.00-118.00 85.00-117.00	- -	MAGNESIUM SODIUM	J- (all detects) UJ (all non-detects)
H21-SB01-GWMS (Total) H21-SB01-GWMSD (Total) (H21-SB01-GW)	ALUMINUM	540	604	84.00-117.00	-	ALUMINUM	J+(all detects)

Method: 8260C
Matrix: Water

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
WDS-SB07-GWMS WDS-SB07-GWMSD (WDS-SB07-GW)	BROMODICHLOROMETHANE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE STYRENE	78.7 64.2 73.4 74.2 74.1	77.9 - 72.6 73.2 75.1	79.00-125.00 66.00-130.00 74.00-126.00 75.00-124.00 78.00-123.00	- - - - -	BROMODICHLOROMETHANE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE STYRENE	J-(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40220 LCSD-40220 (H16-SB01-GW H21-SB02-GW H21-SB03-GW WDS-SB06-GW WDS-SB09-GW WDS-SB11-GW)	4-NITROPHENOL BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	30 - 34.9 31.6	35.3 47.9 36.2 -	50.00-130.00 50.00-130.00 50.00-130.00 34.00-121.00	- - - -	4-NITROPHENOL BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	J- (all detects) UJ (all non-detects)

Method: 8270D SIM
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40233 (034-SB01-GW 203-SB01-GW H16-SB01-GW H21-SB01-GW H21-SB02-GW H21-SB03-GW MP-SB02-GW WDS-SB06-GW WDS-SB07-GW WDS-SB09-GW WDS-SB11-GW)	BENZ(A)ANTHRACENE	123	-	59.00-120.00	-	BENZ(A)ANTHRACENE	J+(all detects)

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40235 LCSD-40235 (203-SB01-GW H21-SB01-GW MP-SB02-GW WDS-SB07-GW)	4-NITROPHENOL	13.4	22.3	50.00-130.00	49.75 (25.00)	4-NITROPHENOL	J(all detects) UJ(all non-detects)
LCS-40235 LCSD-40235 (203-SB01-GW H21-SB01-GW MP-SB02-GW WDS-SB07-GW)	BENZOIC ACID BIS(2-CHLOROISOPROPYL)ETHE N-NITROSODIMETHYLAMINE PENTACHLOROPHENOL PHENOL	12.1 49.6 23.8 14.5 18.8	12.2 48.3 25.8 15 20.2	50.00-130.00 50.00-130.00 50.00-130.00 35.00-138.00 34.00-121.00	- - - - -	BENZOIC ACID BIS(2-CHLOROISOPROPYL)ETH N-NITROSODIMETHYLAMINE PENTACHLOROPHENOL PHENOL	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
VOA10 LCS 063016 VOA10 LCSD 06301 (203-SB01-GW H16-SB01-GW H21-SB01-GW H21-SB02-GW H21-SB03-GW MP-SB02-GW TB-GW-062016-01 WDS-SB06-GW WDS-SB09-GW WDS-SB11-GW)	METHYLENE CHLORIDE	133	128	74.00-124.00	-	METHYLENE CHLORIDE	J+(all detects)
VOA11B LCS 07121 (WDS-SB07-GW)	BROMODICHLOROMETHANE CHLORODIBROMOMETHANE STYRENE	77.9 70.9 74.8	- - -	79.00-125.00 74.00-126.00 78.00-123.00	- - -	BROMODICHLOROMETHANE CHLORODIBROMOMETHANE STYRENE	J-(all detects) UJ(all non-detects)

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-GW-061716-03(Initial/TOT)	6/17/2016 8:20:00 AM	ACETONE	1.5 ug/L	WDS-SB06-GW WDS-SB09-GW WDS-SB11-GW
TB-GW-061916-01(Initial/TOT)	6/19/2016 8:00:00 AM	ACETONE	5.8 ug/L	H16-SB01-GW H21-SB02-GW H21-SB03-GW MP-SB02-GW
TB-GW-061916-02(Initial/TOT)	6/19/2016 8:10:00 AM	ACETONE	1.7 ug/L	034-SB01-GW H21-SB01-GW WDS-SB07-GW
TB-GW-062016-01(Initial/TOT)	6/20/2016 8:00:00 AM	ACETONE	4.7 ug/L	203-SB01-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
203-SB01-GW(Initial/TOT)	ACETONE	5.1 ug/L	10U ug/L
H16-SB01-GW(Initial/TOT)	ACETONE	2.1 ug/L	10U ug/L
H21-SB01-GW(Initial/TOT)	ACETONE	3.6 ug/L	10U ug/L
H21-SB02-GW(Initial/TOT)	ACETONE	3.3 ug/L	10U ug/L
H21-SB03-GW(Initial/TOT)	ACETONE	8.0 ug/L	10U ug/L
MP-SB02-GW(Initial/TOT)	ACETONE	5.9 ug/L	10U ug/L
WDS-SB06-GW(Initial/TOT)	ACETONE	7.1 ug/L	10U ug/L
WDS-SB11-GW(Initial/TOT)	ACETONE	2.5 ug/L	10U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
034-SB01-GW	THALLIUM	J	1.3	2.0	LOQ	ug/L	J (all detects)
203-SB01-GW	BERYLLIUM SELENIUM THALLIUM	J J J	0.28 2.5 0.42	1.0 5.0 2.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
H16-SB01-GW	SELENIUM THALLIUM	J J	4.4 0.59	5.0 2.0	LOQ LOQ	ug/L ug/L	J (all detects)
H21-SB01-GW	CHROMIUM COPPER NICKEL ZINC	J J J J	6.3 4.1 9.8 11	10 5.0 10 50	LOQ LOQ LOQ LOQ	ug/L ug/L ug/L ug/L	J (all detects)
H21-SB02-GW	THALLIUM	J	1.3	2.0	LOQ	ug/L	J (all detects)
H21-SB03-GW	CADMIUM THALLIUM	J J	0.86 0.94	1.0 2.0	LOQ LOQ	ug/L ug/L	J (all detects)
WDS-SB09-GW	BERYLLIUM	J	43	100	LOQ	ug/L	J (all detects)
WDS-SB11-GW	CADMIUM SELENIUM THALLIUM	J J J	0.48 3.3 0.52	1.0 5.0 2.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)

Method: 6020A-SA

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
034-SB01-GW	ANTIMONY SILVER	JG J	1.2 0.74	2.5 1.5	LOQ LOQ	ug/L ug/L	J (all detects)
203-SB01-GW	ANTIMONY	JG	0.23	2.5	LOQ	ug/L	J (all detects)
H16-SB01-GW	ANTIMONY SILVER	JG J	0.68 0.74	2.5 1.5	LOQ LOQ	ug/L ug/L	J (all detects)
H21-SB02-GW	ANTIMONY SILVER	JG J	0.60 0.43	2.5 1.5	LOQ LOQ	ug/L ug/L	J (all detects)
H21-SB03-GW	ANTIMONY SILVER	JG J	0.34 0.29	2.5 1.5	LOQ LOQ	ug/L ug/L	J (all detects)
WDS-SB06-GW	ANTIMONY SILVER	JG J	0.94 0.34	2.5 1.5	LOQ LOQ	ug/L ug/L	J (all detects)
WDS-SB07-GW	ANTIMONY SILVER	JG J	0.66 0.88	2.5 1.5	LOQ LOQ	ug/L ug/L	J (all detects)
WDS-SB09-GW	ANTIMONY	JG	1.9	2.5	LOQ	ug/L	J (all detects)
WDS-SB11-GW	ANTIMONY SILVER	JG J	1.0 0.28	2.5 1.5	LOQ LOQ	ug/L ug/L	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606675 **Laboratory: RTILABS**

EDD Filename: EDD_1606675_SEDD_2a_v3_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB01-GW	ACETONE	J	5.1	10	LOQ	ug/L	J (all detects)
H16-SB01-GW	ACETONE	J	2.1	10	LOQ	ug/L	J (all detects)
H21-SB01-GW	2-Butanone [MEK] ACETONE	J J	3.6 3.6	10 10	LOQ LOQ	ug/L ug/L	J (all detects)
H21-SB02-GW	ACETONE	J	3.3	10	LOQ	ug/L	J (all detects)
H21-SB03-GW	2-HEXANONE ACETONE	J J	1.4 8.0	2.0 10	LOQ LOQ	ug/L ug/L	J (all detects)
MP-SB02-GW	ACETONE	J	5.9	10	LOQ	ug/L	J (all detects)
TB-GW-061716-03	ACETONE	JY	1.5	10	LOQ	ug/L	J (all detects)
TB-GW-061916-01	ACETONE	JY	5.8	10	LOQ	ug/L	J (all detects)
TB-GW-061916-02	ACETONE	JY	1.7	10	LOQ	ug/L	J (all detects)
TB-GW-062016-01	ACETONE	J	4.7	10	LOQ	ug/L	J (all detects)
WDS-SB06-GW	ACETONE	J	7.1	10	LOQ	ug/L	J (all detects)
WDS-SB07-GW	METHYLENE CHLORIDE	JH	3.4	25	LOQ	ug/L	J (all detects)
WDS-SB11-GW	ACETONE	J	2.5	10	LOQ	ug/L	J (all detects)

Method: 8270D-MOD

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB01-GW	DIETHYL PHTHALATE	J	0.19	5.0	LOQ	ug/L	J (all detects)
H16-SB01-GW	BENZOIC ACID	JYQZ	9.4	24	LOQ	ug/L	J (all detects)
H21-SB01-GW	DIETHYL PHTHALATE	J	0.49	4.9	LOQ	ug/L	J (all detects)
H21-SB03-GW	DIETHYL PHTHALATE	J	0.94	4.8	LOQ	ug/L	J (all detects)
WDS-SB06-GW	BENZOIC ACID CARBAZOLE DIBENZOFURAN	JYQZ J J	19 2.1 1.6	24 4.7 3.8	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
WDS-SB07-GW	BENZOIC ACID	JYQZ	9.5	25	LOQ	ug/L	J (all detects)
WDS-SB11-GW	BENZOIC ACID	JYQZ	8.8	24	LOQ	ug/L	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606833		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	10 groundwater samples for a project-specific list of VOCs, SVOCs, PCBs, energetics, and metals		
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA		
Completed:	August 22, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for ground water data included in Sample Delivery Group (SDG) 1606833. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

✓ Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✓ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✓ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

Sample ID: **203-SB02-GW** ***Collected:*** **6/20/2016 1:02:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.90	J	0.50	LOD	1.0	LOQ	ug/L	J	RI
THALLIUM	0.89	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: **203-SB03-GW** ***Collected:*** **6/20/2016 3:25:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.42	JG	0.50	LOD	1.0	LOQ	ug/L	J	RI
CHROMIUM	8.1	J	0.50	LOD	10	LOQ	ug/L	J	RI
COBALT	2.9	J	0.50	LOD	5.0	LOQ	ug/L	J	RI
NICKEL	6.4	J	0.50	LOD	10	LOQ	ug/L	J	RI
SELENIUM	2.2	JG	2.5	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.70	JG	0.50	LOD	2.0	LOQ	ug/L	J	RI
ZINC	20	J	2.5	LOD	50	LOQ	ug/L	J	RI

Sample ID: **203-SB04-GW** ***Collected:*** **6/20/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	1.8	J	0.50	LOD	10	LOQ	ug/L	J	RI
COBALT	0.66	J	0.50	LOD	5.0	LOQ	ug/L	J	RI
COPPER	1.8	JG	0.50	LOD	5.0	LOQ	ug/L	J	RI
LEAD	0.52	J	0.50	LOD	1.0	LOQ	ug/L	J	RI
NICKEL	2.2	J	0.50	LOD	10	LOQ	ug/L	J	RI
SELENIUM	3.4	JG	2.5	LOD	5.0	LOQ	ug/L	J	RI
VANADIUM	2.7	J	0.50	LOD	4.0	LOQ	ug/L	J	RI
ZINC	6.2	J	2.5	LOD	50	LOQ	ug/L	J	RI

Sample ID: **203-SB05-GW** ***Collected:*** **6/20/2016 10:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.35	JG	0.50	LOD	1.0	LOQ	ug/L	J	RI
CHROMIUM	6.9	J	0.50	LOD	10	LOQ	ug/L	J	RI
COBALT	3.4	J	0.50	LOD	5.0	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A **Matrix:** Water

Sample ID: 203-SB05-GW **Collected:** 6/20/2016 10:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	6.9	J	0.50	LOD	10	LOQ	ug/L	J	RI
ZINC	25	J	2.5	LOD	50	LOQ	ug/L	J	RI

Sample ID: H14-SB01-GW **Collected:** 6/21/2016 12:30:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.46	JG	0.50	LOD	1.0	LOQ	ug/L	J	RI
SELENIUM	1.7	JG	2.5	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.17	JG	0.50	LOD	2.0	LOQ	ug/L	J	RI
ZINC	13	J	2.5	LOD	50	LOQ	ug/L	J	RI

Sample ID: H14-SB03-GW **Collected:** 6/21/2016 12:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.73	J	1.0	LOD	1.5	LOQ	ug/L	J	RI
COBALT	2.5	J	0.50	LOD	5.0	LOQ	ug/L	J	RI
NICKEL	6.2	J	0.50	LOD	10	LOQ	ug/L	J	RI
ZINC	20	J	2.5	LOD	50	LOQ	ug/L	J	RI

Sample ID: H17-SB03-GW **Collected:** 6/21/2016 9:30:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.57	J	0.50	LOD	1.0	LOQ	ug/L	J	RI
THALLIUM	0.82	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: MP-MW01-01 **Collected:** 6/22/2016 10:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	1.2	J	0.50	LOD	10	LOQ	ug/L	J	RI
COBALT	1.0	J	0.50	LOD	5.0	LOQ	ug/L	J	RI
NICKEL	1.9	J	0.50	LOD	10	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A **Matrix: Water**

Sample ID: WDS-SB18-GW **Collected:** 6/20/2016 9:35:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	4.2	J	0.50	LOD	10	LOQ	ug/L	J	RI
COBALT	4.2	J	0.50	LOD	5.0	LOQ	ug/L	J	RI
COPPER	4.6	JG	0.50	LOD	5.0	LOQ	ug/L	J	RI
VANADIUM	3.6	J	0.50	LOD	4.0	LOQ	ug/L	J	RI

Sample ID: WDS-SB19-GW **Collected:** 6/20/2016 10:52:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.40	J	0.50	LOD	1.0	LOQ	ug/L	J	RI
THALLIUM	0.52	JG	0.50	LOD	2.0	LOQ	ug/L	J	RI

Method Category: METALS

Method: 6020A-SA **Matrix: Water**

Sample ID: 203-SB02-GW **Collected:** 6/20/2016 1:02:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.1	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

Sample ID: 203-SB03-GW **Collected:** 6/20/2016 3:25:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.40	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

Sample ID: 203-SB04-GW **Collected:** 6/20/2016 2:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.25	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

Sample ID: 203-SB05-GW **Collected:** 6/20/2016 10:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.24	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-SA **Matrix: Water**

Sample ID: H17-SB03-GW **Collected:** 6/21/2016 9:30:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	2.1	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

Sample ID: MP-MW01-01 **Collected:** 6/22/2016 10:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.0	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

Sample ID: WDS-SB18-GW **Collected:** 6/20/2016 9:35:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.35	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

Sample ID: WDS-SB19-GW **Collected:** 6/20/2016 10:52:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.48	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

Method Category: SVOA

Method: 8082A **Matrix: Water**

Sample ID: 203-SB02-GW **Collected:** 6/20/2016 1:02:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.040	U	0.040	LOD	0.10	LOQ	ug/L	UJ	Surr
AROCLOR 1221	0.040	U	0.040	LOD	0.10	LOQ	ug/L	UJ	Surr
AROCLOR 1232	0.041	U	0.041	LOD	0.20	LOQ	ug/L	UJ	Surr
AROCLOR 1242	0.040	U	0.040	LOD	0.20	LOQ	ug/L	UJ	Surr
AROCLOR 1248	0.040	U	0.040	LOD	0.10	LOQ	ug/L	UJ	Surr
AROCLOR 1254	0.040	U	0.040	LOD	0.20	LOQ	ug/L	UJ	Surr
AROCLOR 1260	0.040	U	0.040	LOD	0.20	LOQ	ug/L	UJ	Surr
Aroclor 1262	0.10	U	0.10	LOD	0.20	LOQ	ug/L	UJ	Surr
Aroclor 1268	0.040	U	0.040	LOD	0.10	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8082A **Matrix: Water**

Sample ID: 203-SB03-GW **Collected:** 6/20/2016 3:25:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.041	U	0.041	LOD	0.10	LOQ	ug/L	UJ	Surr
AROCLOR 1221	0.041	U	0.041	LOD	0.10	LOQ	ug/L	UJ	Surr
AROCLOR 1232	0.042	U	0.042	LOD	0.20	LOQ	ug/L	UJ	Surr
AROCLOR 1242	0.041	U	0.041	LOD	0.20	LOQ	ug/L	UJ	Surr
AROCLOR 1248	0.041	U	0.041	LOD	0.10	LOQ	ug/L	UJ	Surr
AROCLOR 1254	0.041	U	0.041	LOD	0.20	LOQ	ug/L	UJ	Surr
AROCLOR 1260	0.041	U	0.041	LOD	0.20	LOQ	ug/L	UJ	Surr
Aroclor 1262	0.10	U	0.10	LOD	0.20	LOQ	ug/L	UJ	Surr
Aroclor 1268	0.041	U	0.041	LOD	0.10	LOQ	ug/L	UJ	Surr

Method Category: SVOA

Method: 8270D SIM **Matrix: Water**

Sample ID: 203-SB02-GW **Collected:** 6/20/2016 1:02:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Lcs

Sample ID: 203-SB03-GW **Collected:** 6/20/2016 3:25:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Lcs

Sample ID: 203-SB04-GW **Collected:** 6/20/2016 2:00:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Lcs

Sample ID: 203-SB05-GW **Collected:** 6/20/2016 10:00:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.22		0.020	LOD	0.020	LOQ	ug/L	J	Surr, Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Water

Sample ID: 203-SB05-GW **Collected:** 6/20/2016 10:00:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.21		0.020	LOD	0.020	LOQ	ug/L	J	Surr, Surr
BENZO(A)PYRENE	0.93		0.020	LOD	0.020	LOQ	ug/L	J	Surr, Surr
BENZO(G,H,I)PERYLENE	0.48		0.020	LOD	0.020	LOQ	ug/L	J	Surr, Surr
BENZO(K)FLUORANTHENE	0.57		0.020	LOD	0.020	LOQ	ug/L	J	Lcs, Surr, Surr
DIBENZO(A,H)ANTHRACENE	0.22		0.020	LOD	0.020	LOQ	ug/L	J	Surr, Surr
INDENO(1,2,3-CD)PYRENE	0.40		0.020	LOD	0.020	LOQ	ug/L	J	Surr, Surr

Sample ID: H14-SB01-GW **Collected:** 6/21/2016 12:30:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.039		0.021	LOD	0.021	LOQ	ug/L	J-	Surr
2-METHYLNAPHTHALENE	0.048	G	0.021	LOD	0.021	LOQ	ug/L	J-	Surr
ACENAPHTHENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
ACENAPHTHYLENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
ANTHRACENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
BENZ(A)ANTHRACENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
BENZO(A)PYRENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
BENZO(B)FLUORANTHENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
BENZO(G,H,I)PERYLENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
BENZO(K)FLUORANTHENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Lcs, Surr
CHRYSENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
DIBENZO(A,H)ANTHRACENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
FLUORANTHENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
FLUORENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
NAPHTHALENE	0.039	G	0.021	LOD	0.021	LOQ	ug/L	J-	Surr
PHENANTHRENE	0.021	UG	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr
PYRENE	0.021	U	0.021	LOD	0.021	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Water

Sample ID: H14-SB03-GW **Collected:** 6/21/2016 12:00:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.022	U	0.022	LOD	0.022	LOQ	ug/L	UJ	Lcs

Sample ID: H17-SB03-GW **Collected:** 6/21/2016 9:30:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.022	U	0.022	LOD	0.022	LOQ	ug/L	UJ	Lcs

Sample ID: MP-MW01-01 **Collected:** 6/22/2016 10:00:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Lcs

Sample ID: MP-SB03-GW **Collected:** 6/22/2016 9:35:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB18-GW **Collected:** 6/20/2016 9:35:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.020	U	0.020	LOD	0.020	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB19-GW **Collected:** 6/20/2016 10:52:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.057		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
2-METHYLNAPHTHALENE	0.081	G	0.019	LOD	0.019	LOQ	ug/L	J-	Surr
ACENAPHTHENE	0.093		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
ACENAPHTHYLENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
ANTHRACENE	0.058		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZ(A)ANTHRACENE	0.11		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(A)PYRENE	0.067		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(B)FLUORANTHENE	0.10		0.019	LOD	0.019	LOQ	ug/L	J-	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix: Water**

Sample ID: WDS-SB19-GW **Collected:** 6/20/2016 10:52:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.051		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(K)FLUORANTHENE	0.034		0.019	LOD	0.019	LOQ	ug/L	J	Lcs, Surr
CHRYSENE	0.062		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
DIBENZO(A,H)ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
FLUORANTHENE	0.19		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
FLUORENE	0.069		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
INDENO(1,2,3-CD)PYRENE	0.043		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
NAPHTHALENE	0.29	G	0.019	LOD	0.019	LOQ	ug/L	J-	Surr
PHENANTHRENE	0.33	G	0.019	LOD	0.019	LOQ	ug/L	J-	Surr
PYRENE	0.18		0.019	LOD	0.019	LOQ	ug/L	J-	Surr

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: 203-SB02-GW **Collected:** 6/20/2016 1:02:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	2.4	UYQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
PHENOL	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: 203-SB02-GW **Collected:** 6/20/2016 1:02:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: 203-SB03-GW **Collected:** 6/20/2016 3:25:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	5.3	JYQ	2.4	LOD	24	LOQ	ug/L	J	RI, Lcs
PHENOL	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: 203-SB03-GW **Collected:** 6/20/2016 3:25:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: 203-SB04-GW **Collected:** 6/20/2016 2:00:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	2.9	UYQ	2.9	LOD	29	LOQ	ug/L	UJ	Lcs
PHENOL	1.1	UQ	1.1	LOD	5.7	LOQ	ug/L	UJ	Lcs

Sample ID: 203-SB04-GW **Collected:** 6/20/2016 2:00:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	2.9	U	2.9	LOD	5.7	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
2-NITROANILINE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	2.9	U	2.9	LOD	23	LOQ	ug/L	UJ	Surr
3-NITROANILINE	1.1	U	1.1	LOD	11	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
4-NITROANILINE	2.9	U	2.9	LOD	11	LOQ	ug/L	UJ	Surr
BENZYL ALCOHOL	2.9	U	2.9	LOD	29	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	2.9	U	2.9	LOD	5.7	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	2.9	U	2.9	LOD	5.7	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	2.9	UYZ	2.9	LOD	5.7	LOQ	ug/L	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	2.9	U	2.9	LOD	5.7	LOQ	ug/L	UJ	Surr
CARBAZOLE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
DIBENZOFURAN	1.1	U	1.1	LOD	4.6	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **203-SB04-GW** ***Collected:*** **6/20/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYL PHTHALATE	0.86	J	1.1	LOD	5.7	LOQ	ug/L	J	RI, Surr
DIMETHYL PHTHALATE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	2.9	U	2.9	LOD	5.7	LOQ	ug/L	UJ	Surr
HEXACHLOROBENZENE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
ISOPHORONE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr
NITROBENZENE	2.9	U	2.9	LOD	3.4	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	1.1	UQ	1.1	LOD	5.7	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	2.9	U	2.9	LOD	5.7	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	1.1	U	1.1	LOD	5.7	LOQ	ug/L	UJ	Surr

Sample ID: **203-SB05-GW** ***Collected:*** **6/20/2016 10:00:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	4.3	UYQ	4.3	LOD	43	LOQ	ug/L	UJ	Lcs
PHENOL	1.7	UQ	1.7	LOD	8.6	LOQ	ug/L	UJ	Lcs

Sample ID: **203-SB05-GW** ***Collected:*** **6/20/2016 10:00:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.7	UQ	1.7	LOD	8.6	LOQ	ug/L	UJ	Lcs

Sample ID: **H17-SB03-GW** ***Collected:*** **6/21/2016 9:30:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	2.7	UYQ	2.7	LOD	27	LOQ	ug/L	UJ	Lcs
PHENOL	1.1	UQ	1.1	LOD	5.5	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **H17-SB03-GW** ***Collected:*** **6/21/2016 9:30:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYL PHTHALATE	1.3	J	1.1	LOD	5.5	LOQ	ug/L	J	Rl
N-NITROSODIMETHYLAMINE	1.1	UQ	1.1	LOD	5.5	LOQ	ug/L	UJ	Lcs

Sample ID: **MP-MW01-01** ***Collected:*** **6/22/2016 10:00:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	2.4	UYQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
PHENOL	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: **MP-MW01-01** ***Collected:*** **6/22/2016 10:00:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: **MP-SB03-GW** ***Collected:*** **6/22/2016 9:35:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	2.4	UYQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
PHENOL	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: **MP-SB03-GW** ***Collected:*** **6/22/2016 9:35:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB18-GW** ***Collected:*** **6/20/2016 9:35:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	2.5	UYQ	2.5	LOD	25	LOQ	ug/L	UJ	Lcs
PHENOL	1.0	UQ	1.0	LOD	5.1	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: WDS-SB18-GW **Collected:** 6/20/2016 9:35:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.0	UQ	1.0	LOD	5.1	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB19-GW **Collected:** 6/20/2016 10:52:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	2.6	UYQ	2.6	LOD	26	LOQ	ug/L	UJ	Lcs
PHENOL	1.0	UQ	1.0	LOD	5.2	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB19-GW **Collected:** 6/20/2016 10:52:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.0	UQ	1.0	LOD	5.2	LOQ	ug/L	UJ	Lcs

Method Category: VOA

Method: 8260C **Matrix: Water**

Sample ID: 203-SB02-GW **Collected:** 6/20/2016 1:02:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3-TRICHLOROPROPANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	2.5	J	0.60	LOD	10	LOQ	ug/L	U	Tb
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.59	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb

Sample ID: 203-SB03-GW **Collected:** 6/20/2016 3:25:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3-TRICHLOROPROPANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	5.4	J	0.60	LOD	10	LOQ	ug/L	U	Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **203-SB03-GW** ***Collected:*** **6/20/2016 3:25:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.59	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb

Sample ID: **203-SB04-GW** ***Collected:*** **6/20/2016 2:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3-TRICHLOROPROPANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
2-Butanone [MEK]	3.8	J	5.0	LOD	10	LOQ	ug/L	J	Rl
ACETONE	9.5	J	0.60	LOD	10	LOQ	ug/L	U	Tb
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.47	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb

Sample ID: **203-SB05-GW** ***Collected:*** **6/20/2016 10:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3-TRICHLOROPROPANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	33		0.60	LOD	10	LOQ	ug/L	U	Tb
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.31	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb

Sample ID: **H17-SB03-GW** ***Collected:*** **6/21/2016 9:30:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3-TRICHLOROPROPANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	1.5	J	0.60	LOD	10	LOQ	ug/L	U	Tb
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **H17-SB03-GW** ***Collected:*** **6/21/2016 9:30:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.51	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb

Sample ID: **MP-MW01-01** ***Collected:*** **6/22/2016 10:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	2.0	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CARBON DISULFIDE	0.75	J	0.60	LOD	1.0	LOQ	ug/L	J	RI
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	0.78	JB	0.60	LOD	1.0	LOQ	ug/L	U	Mb, Tb
METHYLENE CHLORIDE	0.47	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb

Sample ID: **MP-SB03-GW** ***Collected:*** **6/22/2016 9:35:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	2.7	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	0.76	JB	0.60	LOD	1.0	LOQ	ug/L	U	Mb, Tb
METHYLENE CHLORIDE	0.48	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb

Sample ID: **TB-GW-062016-03** ***Collected:*** **6/20/2016 8:20:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3-TRICHLOROPROPANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	5.2	J	0.60	LOD	10	LOQ	ug/L	J	RI
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.63	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **TB-GW-062116-01** ***Collected:*** **6/21/2016 8:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3-TRICHLOROPROPANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	1.5	J	0.60	LOD	10	LOQ	ug/L	J	Rl
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.68	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb

Sample ID: **TB-GW-062216-01** ***Collected:*** **6/22/2016 8:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	5.7	J	0.60	LOD	10	LOQ	ug/L	U	Mb
BROMOFORM	0.60	UQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	0.86	JB	0.60	LOD	1.0	LOQ	ug/L	U	Mb
METHYLENE CHLORIDE	0.61	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb

Sample ID: **WDS-SB18-GW** ***Collected:*** **6/20/2016 9:35:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3-TRICHLOROPROPANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	7.3	J	0.60	LOD	10	LOQ	ug/L	U	Tb
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.47	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb

Sample ID: **WDS-SB19-GW** ***Collected:*** **6/20/2016 10:52:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3-TRICHLOROPROPANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
2-Butanone [MEK]	6.6	J	5.0	LOD	10	LOQ	ug/L	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **WDS-SB19-GW** ***Collected:*** **6/20/2016 10:52:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ACETONE	8.9	J	0.60	LOD	10	LOQ	ug/L	U	Tb
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.41	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Mb	Method Blank Contamination
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	A
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	A
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Water

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK 0701	7/1/2016 9:36:00 AM	METHYLENE CHLORIDE	0.80 ug/L	203-SB02-GW 203-SB03-GW 203-SB04-GW 203-SB05-GW H17-SB03-GW TB-GW-062016-03 TB-GW-062116-01 WDS-SB18-GW WDS-SB19-GW
VOA11B MBLK2 070	7/5/2016 12:59:00 PM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	1.6 ug/L 0.87 ug/L 0.86 ug/L	MP-MW01-01 MP-SB03-GW TB-GW-062216-01

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
203-SB02-GW(Initial/TOT)	METHYLENE CHLORIDE	0.59 ug/L	5.0U ug/L
203-SB03-GW(Initial/TOT)	METHYLENE CHLORIDE	0.59 ug/L	5.0U ug/L
203-SB04-GW(Initial/TOT)	METHYLENE CHLORIDE	0.47 ug/L	5.0U ug/L
203-SB05-GW(Initial/TOT)	METHYLENE CHLORIDE	0.31 ug/L	5.0U ug/L
H17-SB03-GW(Initial/TOT)	METHYLENE CHLORIDE	0.51 ug/L	5.0U ug/L
MP-MW01-01(Initial/TOT)	ACETONE	2.0 ug/L	10U ug/L
MP-MW01-01(Initial/TOT)	CHLOROMETHANE	0.78 ug/L	1.0U ug/L
MP-MW01-01(Initial/TOT)	METHYLENE CHLORIDE	0.47 ug/L	5.0U ug/L
MP-SB03-GW(Initial/TOT)	ACETONE	2.7 ug/L	10U ug/L
MP-SB03-GW(Initial/TOT)	CHLOROMETHANE	0.76 ug/L	1.0U ug/L
MP-SB03-GW(Initial/TOT)	METHYLENE CHLORIDE	0.48 ug/L	5.0U ug/L
TB-GW-062016-03(Initial/TOT)	METHYLENE CHLORIDE	0.63 ug/L	5.0U ug/L
TB-GW-062116-01(Initial/TOT)	METHYLENE CHLORIDE	0.68 ug/L	5.0U ug/L
TB-GW-062216-01(Initial/TOT)	ACETONE	5.7 ug/L	10U ug/L
TB-GW-062216-01(Initial/TOT)	CHLOROMETHANE	0.86 ug/L	1.0U ug/L
TB-GW-062216-01(Initial/TOT)	METHYLENE CHLORIDE	0.61 ug/L	5.0U ug/L
WDS-SB18-GW(Initial/TOT)	METHYLENE CHLORIDE	0.47 ug/L	5.0U ug/L
WDS-SB19-GW(Initial/TOT)	METHYLENE CHLORIDE	0.41 ug/L	5.0U ug/L

Method: 8330B
Matrix: Water

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40253	6/30/2016 12:23:36 AM	Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)	1.7 ug/L	EFO-SB01-GW MP-MW01-01 MP-SB03-GW MP-SB03-GW DUP

Surrogate Outlier Report

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB02-GW (Initial/TOT)	DECACHLOROBIPHENYL	21.4	40.00-135.00	All Target Analytes	J- (all detects) UJ (all non-detects)
203-SB03-GW (Initial/TOT)	DECACHLOROBIPHENYL	36.8	40.00-135.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8260C
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB05-GW (Initial/TOT)	4-Bromofluorobenzene	141	85.00-114.00	No Affected Compounds	

Method: 8270D SIM
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB05-GW (Initial/TOT)	2-FLUOROBIPHENYL Terphenyl-d14	19.7 7.27	44.00-119.00 50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
203-SB05-GW (Initial/TOT)	Nitrobenzene-d5	708	44.00-120.00	All Base/Neutral Target Analytes	J+(all detects)
H14-SB01-GW (Initial/TOT)	2-FLUOROBIPHENYL Terphenyl-d14	39.7 48.9	44.00-119.00 50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB19-GW (Initial/TOT)	2-FLUOROBIPHENYL	41.1	44.00-119.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D-MOD
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
203-SB04-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5	34.4 28.2 19.3	44.00-119.00 44.00-120.00 30.00-130.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
MP-MW01-01 (Initial/TOT)	PHENOL-D5	28.1	30.00-130.00	No Affected Compounds	
MP-SB03-GW (Initial/TOT)	PHENOL-D5	28.6	30.00-130.00	No Affected Compounds	
WDS-SB18-GW (Initial/TOT)	PHENOL-D5	29.9	30.00-130.00	No Affected Compounds	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSD-40256 (203-SB02-GW 203-SB03-GW 203-SB04-GW 203-SB05-GW H14-SB01-GW H14-SB03-GW H17-SB03-GW MP-MW01-01 MP-SB03-GW WDS-SB18-GW WDS-SB19-GW)	BENZO(K)FLUORANTHENE	-	-	54.00-125.00	20.07 (20.00)	BENZO(K)FLUORANTHENE	J (all detects) UJ (all non-detects)

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40262 (203-SB02-GW 203-SB03-GW 203-SB04-GW 203-SB05-GW H17-SB03-GW MP-MW01-01 MP-SB03-GW WDS-SB18-GW WDS-SB19-GW)	BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	48.8 39.6 31.2	- - -	50.00-130.00 50.00-130.00 34.00-121.00	- - -	BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)

Method: 8260C
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 07011 VOA11B LCSD 0701 (203-SB02-GW 203-SB03-GW 203-SB04-GW 203-SB05-GW H17-SB03-GW TB-GW-062016-03 TB-GW-062116-01 WDS-SB18-GW WDS-SB19-GW)	1,2,3-TRICHLOROPROPANE 1,2-DIBROMO-3-CHLOROPROPAN BROMOFORM CHLORODIBROMOMETHANE	- - 52.7 65.7	72.2 59.7 56.1 61.9	73.00-122.00 62.00-128.00 66.00-130.00 74.00-126.00	- - - -	1,2,3-TRICHLOROPROPANE 1,2-DIBROMO-3-CHLOROPROPA BROMOFORM CHLORODIBROMOMETHANE	J-(all detects) UJ(all non-detects)
VOA11B LCS 07051 (MP-MW01-01 MP-SB03-GW TB-GW-062216-01)	BROMOFORM CHLORODIBROMOMETHANE	58.6 67.7	- -	66.00-130.00 74.00-126.00	- -	BROMOFORM CHLORODIBROMOMETHANE	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-GW-062016-03(Initial/TOT)	6/20/2016 8:20:00 AM	ACETONE METHYLENE CHLORIDE	5.2 ug/L 0.63 ug/L	203-SB02-GW 203-SB03-GW 203-SB04-GW 203-SB05-GW WDS-SB18-GW WDS-SB19-GW
TB-GW-062116-01(Initial/TOT)	6/21/2016 8:00:00 AM	ACETONE METHYLENE CHLORIDE	1.5 ug/L 0.68 ug/L	H14-SB01-GW H14-SB03-GW H17-SB03-GW
TB-GW-062216-01(Initial/TOT)	6/22/2016 8:00:00 AM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	5.7 ug/L 0.86 ug/L 0.61 ug/L	EFO-SB01-GW MP-MW01-01 MP-SB03-GW MP-SB03-GW DUP

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
203-SB02-GW(Initial/TOT)	ACETONE	2.5 ug/L	10U ug/L
203-SB02-GW(Initial/TOT)	METHYLENE CHLORIDE	0.59 ug/L	5.0U ug/L
203-SB03-GW(Initial/TOT)	ACETONE	5.4 ug/L	10U ug/L
203-SB03-GW(Initial/TOT)	METHYLENE CHLORIDE	0.59 ug/L	5.0U ug/L
203-SB04-GW(Initial/TOT)	ACETONE	9.5 ug/L	10U ug/L
203-SB04-GW(Initial/TOT)	METHYLENE CHLORIDE	0.47 ug/L	5.0U ug/L
203-SB05-GW(Initial/TOT)	ACETONE	33 ug/L	33U ug/L
203-SB05-GW(Initial/TOT)	METHYLENE CHLORIDE	0.31 ug/L	5.0U ug/L
H17-SB03-GW(Initial/TOT)	ACETONE	1.5 ug/L	10U ug/L
H17-SB03-GW(Initial/TOT)	METHYLENE CHLORIDE	0.51 ug/L	5.0U ug/L
MP-MW01-01(Initial/TOT)	ACETONE	2.0 ug/L	10U ug/L
MP-MW01-01(Initial/TOT)	CHLOROMETHANE	0.78 ug/L	1.0U ug/L
MP-MW01-01(Initial/TOT)	METHYLENE CHLORIDE	0.47 ug/L	5.0U ug/L
MP-SB03-GW(Initial/TOT)	ACETONE	2.7 ug/L	10U ug/L
MP-SB03-GW(Initial/TOT)	CHLOROMETHANE	0.76 ug/L	1.0U ug/L
MP-SB03-GW(Initial/TOT)	METHYLENE CHLORIDE	0.48 ug/L	5.0U ug/L
WDS-SB18-GW(Initial/TOT)	ACETONE	7.3 ug/L	10U ug/L
WDS-SB18-GW(Initial/TOT)	METHYLENE CHLORIDE	0.47 ug/L	5.0U ug/L
WDS-SB19-GW(Initial/TOT)	ACETONE	8.9 ug/L	10U ug/L
WDS-SB19-GW(Initial/TOT)	METHYLENE CHLORIDE	0.41 ug/L	5.0U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB02-GW	CADMIUM	J	0.90	1.0	LOQ	ug/L	J (all detects)
	THALLIUM	J	0.89	2.0	LOQ	ug/L	
203-SB03-GW	BERYLLIUM	JG	0.42	1.0	LOQ	ug/L	J (all detects)
	CHROMIUM	J	8.1	10	LOQ	ug/L	
	COBALT	J	2.9	5.0	LOQ	ug/L	
	NICKEL	J	6.4	10	LOQ	ug/L	
	SELENIUM	JG	2.2	5.0	LOQ	ug/L	
	THALLIUM	JG	0.70	2.0	LOQ	ug/L	
	ZINC	J	20	50	LOQ	ug/L	
203-SB04-GW	CHROMIUM	J	1.8	10	LOQ	ug/L	J (all detects)
	COBALT	J	0.66	5.0	LOQ	ug/L	
	COPPER	JG	1.8	5.0	LOQ	ug/L	
	LEAD	J	0.52	1.0	LOQ	ug/L	
	NICKEL	J	2.2	10	LOQ	ug/L	
	SELENIUM	JG	3.4	5.0	LOQ	ug/L	
	VANADIUM	J	2.7	4.0	LOQ	ug/L	
	ZINC	J	6.2	50	LOQ	ug/L	
203-SB05-GW	BERYLLIUM	JG	0.35	1.0	LOQ	ug/L	J (all detects)
	CHROMIUM	J	6.9	10	LOQ	ug/L	
	COBALT	J	3.4	5.0	LOQ	ug/L	
	NICKEL	J	6.9	10	LOQ	ug/L	
	ZINC	J	25	50	LOQ	ug/L	
H14-SB01-GW	BERYLLIUM	JG	0.46	1.0	LOQ	ug/L	J (all detects)
	SELENIUM	JG	1.7	5.0	LOQ	ug/L	
	THALLIUM	JG	0.17	2.0	LOQ	ug/L	
	ZINC	J	13	50	LOQ	ug/L	
H14-SB03-GW	ARSENIC	J	0.73	1.5	LOQ	ug/L	J (all detects)
	COBALT	J	2.5	5.0	LOQ	ug/L	
	NICKEL	J	6.2	10	LOQ	ug/L	
	ZINC	J	20	50	LOQ	ug/L	
H17-SB03-GW	CADMIUM	J	0.57	1.0	LOQ	ug/L	J (all detects)
	THALLIUM	J	0.82	2.0	LOQ	ug/L	
MP-MW01-01	CHROMIUM	J	1.2	10	LOQ	ug/L	J (all detects)
	COBALT	J	1.0	5.0	LOQ	ug/L	
	NICKEL	J	1.9	10	LOQ	ug/L	
WDS-SB18-GW	CHROMIUM	J	4.2	10	LOQ	ug/L	J (all detects)
	COBALT	J	4.2	5.0	LOQ	ug/L	
	COPPER	JG	4.6	5.0	LOQ	ug/L	
	VANADIUM	J	3.6	4.0	LOQ	ug/L	
WDS-SB19-GW	CADMIUM	J	0.40	1.0	LOQ	ug/L	J (all detects)
	THALLIUM	JG	0.52	2.0	LOQ	ug/L	

Method: 6020A-SA

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB02-GW	ANTIMONY	JG	1.1	2.5	LOQ	ug/L	J (all detects)
203-SB03-GW	ANTIMONY	JG	0.40	2.5	LOQ	ug/L	J (all detects)

Project Name and Number: - USACE Project: USACE Project: USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A-SA

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB04-GW	ANTIMONY	JG	0.25	2.5	LOQ	ug/L	J (all detects)
203-SB05-GW	ANTIMONY	JG	0.24	2.5	LOQ	ug/L	J (all detects)
H17-SB03-GW	ANTIMONY	JG	2.1	2.5	LOQ	ug/L	J (all detects)
MP-MW01-01	ANTIMONY	JG	1.0	2.5	LOQ	ug/L	J (all detects)
WDS-SB18-GW	ANTIMONY	JG	0.35	2.5	LOQ	ug/L	J (all detects)
WDS-SB19-GW	ANTIMONY	JG	0.48	2.5	LOQ	ug/L	J (all detects)

Method: 8260C

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
203-SB02-GW	ACETONE METHYLENE CHLORIDE	J J	2.5 0.59	10 5.0	LOQ LOQ	ug/L ug/L	J (all detects)
203-SB03-GW	ACETONE METHYLENE CHLORIDE	J J	5.4 0.59	10 5.0	LOQ LOQ	ug/L ug/L	J (all detects)
203-SB04-GW	2-Butanone [MEK] ACETONE METHYLENE CHLORIDE	J J J	3.8 9.5 0.47	10 10 5.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
203-SB05-GW	METHYLENE CHLORIDE	J	0.31	5.0	LOQ	ug/L	J (all detects)
H17-SB03-GW	ACETONE METHYLENE CHLORIDE	J J	1.5 0.51	10 5.0	LOQ LOQ	ug/L ug/L	J (all detects)
MP-MW01-01	ACETONE CARBON DISULFIDE CHLOROMETHANE METHYLENE CHLORIDE	J J JB J	2.0 0.75 0.78 0.47	10 1.0 1.0 5.0	LOQ LOQ LOQ LOQ	ug/L ug/L ug/L ug/L	J (all detects)
MP-SB03-GW	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	J JB J	2.7 0.76 0.48	10 1.0 5.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
TB-GW-062016-03	ACETONE METHYLENE CHLORIDE	J J	5.2 0.63	10 5.0	LOQ LOQ	ug/L ug/L	J (all detects)
TB-GW-062116-01	ACETONE METHYLENE CHLORIDE	J J	1.5 0.68	10 5.0	LOQ LOQ	ug/L ug/L	J (all detects)
TB-GW-062216-01	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	J JB J	5.7 0.86 0.61	10 1.0 5.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
WDS-SB18-GW	ACETONE METHYLENE CHLORIDE	J J	7.3 0.47	10 5.0	LOQ LOQ	ug/L ug/L	J (all detects)
WDS-SB19-GW	2-Butanone [MEK] ACETONE METHYLENE CHLORIDE	J J J	6.6 8.9 0.41	10 10 5.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606833 **Laboratory: RTILABS**

EDD Filename: EDD_1606833_SEDD_2a_v8_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**

Matrix: **Water**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
203-SB03-GW	BENZOIC ACID	JYQ	5.3	24	LOQ	ug/L	J (all detects)
203-SB04-GW	DIETHYL PHTHALATE	J	0.86	5.7	LOQ	ug/L	J (all detects)
H17-SB03-GW	DIETHYL PHTHALATE	J	1.3	5.5	LOQ	ug/L	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606859		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	1 wipe and 1 concrete sample for a project-specific list of PCBs		
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA		
Completed:	August 29, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606859. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

NA Field duplicate results

✓ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606859 **Laboratory: RTILABS**

EDD Filename: EDD_1606859_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8082A-WIPE** ***Matrix:*** **Wipe**

Sample ID: **B113-WP01-01** ***Collected:*** **6/21/2016 3:00:00 PM** ***Analysis Type:*** **Dilution-1** ***Dilution:*** **5**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
AROCLOR 1016	0.0012	UQ	0.0012	LOD	0.0012	LOQ	mg	UJ	Lcs, Lcs
AROCLOR 1254	4.4	P	0.0012	LOD	0.0012	LOQ	mg	J+	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606859 **Laboratory: RTILABS**

EDD Filename: EDD_1606859_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606859 **Laboratory: RTILABS**

EDD Filename: EDD_1606859_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	A
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	A
Field Duplicates	N
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Surrogate Outlier Report

Lab Reporting Batch ID: 1606859 **Laboratory: RTILABS**

EDD Filename: EDD_1606859_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: **8082A-WIPE**
Matrix: **Wipe**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
B113-WP01-01 (Dilution-1)	DECACHLOROBIPHENYL	131	60.00-125.00	All Target Analytes	J+ (all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606859 **Laboratory: RTILABS**

EDD Filename: EDD_1606859_SEDD_2a_v5_rev **eQAPP Name: Former_Camp_Hero**

Method: **8082A-WIPE**
Matrix: **Wipe**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCS-40498 LCSD-40498 (B113-WP01-01)	AROCLOR 1016	62.8	-	70.00-130.00	58.16 (30.00)	AROCLOR 1016	J (all detects) UJ (all non-detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606937		
Date(s) of Collection:	June 19th, 2016		
Number/Type Samples & Analyses:	1 wipe and 1 concrete sample for a project-specific list of PCBs		
Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 29th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606937. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

NA Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606937 **Laboratory: RTILABS**

EDD Filename: EDD_1606937_SEDD_2a_v9_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8082A **Matrix:** Soil

Sample ID: 107-CC01-01 **Collected:** 6/19/2016 9:00:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.0065	U	0.0065	LOD	0.032	LOQ	mg/Kg	UJ	TempEst, Surr
AROCLOR 1221	0.0065	U	0.0065	LOD	0.032	LOQ	mg/Kg	UJ	TempEst, Surr
AROCLOR 1232	0.0065	U	0.0065	LOD	0.032	LOQ	mg/Kg	UJ	TempEst, Surr
AROCLOR 1242	0.0065	U	0.0065	LOD	0.032	LOQ	mg/Kg	UJ	TempEst, Surr
AROCLOR 1248	0.0065	U	0.0065	LOD	0.032	LOQ	mg/Kg	UJ	TempEst, Surr
AROCLOR 1254	0.0092	JP	0.0065	LOD	0.032	LOQ	mg/Kg	J	RI, TempEst, Surr
Aroclor 1262	0.0065	U	0.0065	LOD	0.032	LOQ	mg/Kg	UJ	TempEst, Surr
Aroclor 1268	0.0065	U	0.0065	LOD	0.032	LOQ	mg/Kg	UJ	TempEst, Surr
AROCLOR 1260	0.0065	U	0.0065	LOD	0.032	LOQ	mg/Kg	UJ	TempEst, Surr

Method Category: SVOA

Method: 8082A-WIPE **Matrix:** Wipe

Sample ID: 107-WP01-01 **Collected:** 6/19/2016 9:10:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.00025	UQ	0.00025	LOD	0.00025	LOQ	mg	UJ	TempEst, Lcs, Lcs
AROCLOR 1221	0.00025	U	0.00025	LOD	0.00025	LOQ	mg	UJ	TempEst
AROCLOR 1232	0.00025	U	0.00025	LOD	0.00025	LOQ	mg	UJ	TempEst
AROCLOR 1242	0.00025	U	0.00025	LOD	0.00025	LOQ	mg	UJ	TempEst
AROCLOR 1248	0.00025	U	0.00025	LOD	0.00025	LOQ	mg	UJ	TempEst
AROCLOR 1254	0.00025	U	0.00025	LOD	0.00025	LOQ	mg	UJ	TempEst
AROCLOR 1260	0.00025	U	0.00025	LOD	0.00025	LOQ	mg	UJ	TempEst

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606937 **Laboratory: RTILABS**

EDD Filename: EDD_1606937_SEDD_2a_v9_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation
TempEst	Temperature Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606937 **Laboratory: RTILABS**

EDD Filename: EDD_1606937_SEDD_2a_v9_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	SR
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	A
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Temperature Outliers

Lab Reporting Batch ID: 1606937 **Laboratory: RTILABS**

EDD Filename: EDD_1606937_SEDD_2a_v9_rev **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Soil

SampleID	Analyte	Temperarture	Criteria	Flag
107-CC01-01	All TCLs	22.6 °C	12.00 °C	J- (all detects) UJ (all non-detects)

Method: 8082A-WIPE
Matrix: Wipe

SampleID	Analyte	Temperarture	Criteria	Flag
107-WP01-01	All TCLs	22.6 °C	12.00 °C	J- (all detects) UJ (all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: 1606937 **Laboratory: RTILABS**

EDD Filename: EDD_1606937_SEDD_2a_v9_rev **eQAPP Name: Former_Camp_Hero**

Method: **8082A**
Matrix: **Soil**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
107-CC01-01 (Initial)	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	47.7 36.2	60.00-125.00 44.00-130.00	All Target Analytes	J- (all detects) UJ (all non-detects)

Method: **8082A-WIPE**
Matrix: **Wipe**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
107-WP01-01 (Initial)	DECACHLOROBIPHENYL	128	60.00-125.00	All Target Analytes	J+(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606937 **Laboratory: RTILABS**

EDD Filename: EDD_1606937_SEDD_2a_v9_rev **eQAPP Name: Former_Camp_Hero**

Method: **8082A-WIPE**
Matrix: **Wipe**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCS-40498 LCSD-40498 (107-WP01-01)	AROCLOR 1016	62.8	-	70.00-130.00	58.16 (30.00)	AROCLOR 1016	J (all detects) UJ (all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606937 **Laboratory: RTILABS**

EDD Filename: EDD_1606937_SEDD_2a_v9_rev **eQAPP Name: Former_Camp_Hero**

Method: **8082A**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
107-CC01-01	AROCLOR 1254	JP	0.0092	0.032	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606286		
Date(s) of Collection:	June 7th, 2016		
Number/Type Samples & Analyses:	12 soil samples for project-specific list of Polynuclear Hydrocarbons, PCBs, and Metals		
Senior Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 26th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606286. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016*

Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✓ Laboratory control sample (LCS) recoveries

✓ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

NA Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR. ADR Discrepancy reports are included in Attachment B.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **H11-SB01-04** ***Collected:*** **6/7/2016 1:40:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.17	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.033	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI
LEAD	2.7	J	0.77	LOD	3.9	LOQ	mg/Kg	J	RI

Sample ID: **H11-SB02-04** ***Collected:*** **6/7/2016 1:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.19	J	0.040	LOD	0.20	LOQ	mg/Kg	J	RI

Sample ID: **H11-SB02-06** ***Collected:*** **6/7/2016 1:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.090	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: **H11-SS01-01** ***Collected:*** **6/7/2016 1:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.39	J	0.39	LOD	0.77	LOQ	mg/Kg	J	RI
BERYLLIUM	0.075	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.049	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI
COBALT	0.46	J	0.19	LOD	0.77	LOQ	mg/Kg	J	RI
LEAD	3.8	J	0.77	LOD	3.9	LOQ	mg/Kg	J	RI
NICKEL	3.0	J	0.77	LOD	3.9	LOQ	mg/Kg	J	RI

Sample ID: **H11-SS02-01** ***Collected:*** **6/7/2016 12:50:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.031	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB22-05** ***Collected:*** **6/7/2016 3:35:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.046	J	0.037	LOD	0.19	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **WDS-SB22-05** ***Collected:*** **6/7/2016 3:35:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	2.6	J	0.75	LOD	3.7	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB23-05** ***Collected:*** **6/7/2016 2:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.18	J	0.20	LOD	0.80	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB24-04** ***Collected:*** **6/7/2016 2:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.17	J	0.041	LOD	0.21	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB25-08** ***Collected:*** **6/7/2016 3:50:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.048	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB27-08** ***Collected:*** **6/7/2016 3:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.4	J	0.83	LOD	1.7	LOQ	mg/Kg	J	RI
CADMIUM	0.035	J	0.042	LOD	0.21	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB27-08 DUP** ***Collected:*** **6/7/2016 3:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.4	J	0.82	LOD	1.6	LOQ	mg/Kg	J	RI
CADMIUM	0.045	J	0.041	LOD	0.20	LOQ	mg/Kg	J	RI
LEAD	3.9	J	0.82	LOD	4.1	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A-TL** ***Matrix:*** **Soil**

Sample ID: **H11-SB01-04** ***Collected:*** **6/7/2016 1:40:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.063	JG	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: **H11-SB02-04** ***Collected:*** **6/7/2016 1:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.076	JG	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: **H11-SB02-06** ***Collected:*** **6/7/2016 1:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.074	JG	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: **H11-SS01-01** ***Collected:*** **6/7/2016 1:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.062	JG	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: **H11-SS02-01** ***Collected:*** **6/7/2016 12:50:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.073	JG	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB22-05** ***Collected:*** **6/7/2016 3:35:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.081	JG	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: **WDS-SB23-05** ***Collected:*** **6/7/2016 2:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.14	JG	0.040	LOD	0.16	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: WDS-SB25-08 **Collected:** 6/7/2016 3:50:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.11	JG	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB26-05 **Collected:** 6/7/2016 4:20:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.15	JG	0.041	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB27-08 **Collected:** 6/7/2016 3:05:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.13	JG	0.041	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB27-08 DUP **Collected:** 6/7/2016 3:05:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.082	JG	0.042	LOD	0.17	LOQ	mg/Kg	J	RI

Method Category: SVOA

Method: 8082A **Matrix: Soil**

Sample ID: WDS-SB27-08 **Collected:** 6/7/2016 3:05:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.0084	U	0.0084	LOD	0.042	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.0084	U	0.0084	LOD	0.042	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.0084	U	0.0084	LOD	0.042	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.0084	U	0.0084	LOD	0.042	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.0084	U	0.0084	LOD	0.042	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.0084	U	0.0084	LOD	0.042	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.0084	U	0.0084	LOD	0.042	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.0084	U	0.0084	LOD	0.042	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.0084	U	0.0084	LOD	0.042	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **Soil**

Sample ID: **WDS-SB27-08** ***Collected:*** **6/7/2016 3:05:00 PM** ***Analysis Type:*** **Initial-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BENZO(B)FLUORANTHENE	0.00084	UY	0.00084	LOD	0.00084	LOQ	mg/Kg	UJ	Fd
FLUORANTHENE	0.00084	U	0.00084	LOD	0.00084	LOQ	mg/Kg	UJ	Fd
PYRENE	0.00084	U	0.00084	LOD	0.00084	LOQ	mg/Kg	UJ	Fd

Sample ID: **WDS-SB27-08 DUP** ***Collected:*** **6/7/2016 3:05:00 PM** ***Analysis Type:*** **Initial-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BENZO(B)FLUORANTHENE	0.0015	Y	0.00085	LOD	0.00085	LOQ	mg/Kg	J	Fd
FLUORANTHENE	0.0012		0.00085	LOD	0.00085	LOQ	mg/Kg	J	Fd
PYRENE	0.0012		0.00085	LOD	0.00085	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Mb	Method Blank Contamination
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	A
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	A
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40137	6/22/2016 1:53:06 PM	CHROMIUM	0.25 mg/Kg	H11-SB01-04 H11-SB02-04 H11-SB02-06 H11-SS01-01 H11-SS02-01 WDS-SB22-05 WDS-SB23-05 WDS-SB24-04 WDS-SB25-08 WDS-SB27-08 WDS-SB27-08 DUP
MB-40157	7/13/2016 12:22:56 PM	MANGANESE	0.19 mg/Kg	WDS-SB26-05

Surrogate Outlier Report

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Method: **8082A**
Matrix: **Soil**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
WDS-SB27-08 (Initial)	DECACHLOROBIPHENYL	55.5	60.00-125.00	All Target Analytes	J- (all detects) UJ (all non-detects)

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	WDS-SB27-08	WDS-SB27-08 DUP			
BENZO(B)FLUORANTHENE	0.00084 UY	0.0015	200	50.00	J (all detects) UJ (all non-detects)
FLUORANTHENE	0.00084 U	0.0012	200	50.00	
PYRENE	0.00084 U	0.0012	200	50.00	

Project Name and Number: - USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606286 **Laboratory: RTILABS**

EDD Filename: EDD_1606286_SEDD_2a_v11 **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H11-SB01-04	BERYLLIUM CADMIUM LEAD	J J J	0.17 0.033 2.7	0.19 0.19 3.9	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H11-SB02-04	CADMIUM	J	0.19	0.20	LOQ	mg/Kg	J (all detects)
H11-SB02-06	CADMIUM	J	0.090	0.19	LOQ	mg/Kg	J (all detects)
H11-SS01-01	ANTIMONY BERYLLIUM CADMIUM COBALT LEAD NICKEL	J J J J J J	0.39 0.075 0.049 0.46 3.8 3.0	0.77 0.19 0.19 0.77 3.9 3.9	LOQ LOQ LOQ LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	J (all detects)
H11-SS02-01	CADMIUM	J	0.031	0.19	LOQ	mg/Kg	J (all detects)
WDS-SB22-05	CADMIUM LEAD	J J	0.046 2.6	0.19 3.7	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB23-05	SILVER	J	0.18	0.80	LOQ	mg/Kg	J (all detects)
WDS-SB24-04	CADMIUM	J	0.17	0.21	LOQ	mg/Kg	J (all detects)
WDS-SB25-08	CADMIUM	J	0.048	0.19	LOQ	mg/Kg	J (all detects)
WDS-SB27-08	ARSENIC CADMIUM	J J	1.4 0.035	1.7 0.21	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB27-08 DUP	ARSENIC CADMIUM LEAD	J J J	1.4 0.045 3.9	1.6 0.20 4.1	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H11-SB01-04	THALLIUM	JG	0.063	0.16	LOQ	mg/Kg	J (all detects)
H11-SB02-04	THALLIUM	JG	0.076	0.15	LOQ	mg/Kg	J (all detects)
H11-SB02-06	THALLIUM	JG	0.074	0.16	LOQ	mg/Kg	J (all detects)
H11-SS01-01	THALLIUM	JG	0.062	0.16	LOQ	mg/Kg	J (all detects)
H11-SS02-01	THALLIUM	JG	0.073	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB22-05	THALLIUM	JG	0.081	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB23-05	THALLIUM	JG	0.14	0.16	LOQ	mg/Kg	J (all detects)
WDS-SB25-08	THALLIUM	JG	0.11	0.15	LOQ	mg/Kg	J (all detects)
WDS-SB26-05	THALLIUM	JG	0.15	0.16	LOQ	mg/Kg	J (all detects)
WDS-SB27-08	THALLIUM	JG	0.13	0.16	LOQ	mg/Kg	J (all detects)
WDS-SB27-08 DUP	THALLIUM	JG	0.082	0.17	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606293		
Date(s) of Collection:	June 7th, 2016		
Number/Type Samples & Analyses:	21 soil samples for a project-specific list of VOCs, SVOCs, PAHs, PCBs, and metals		
Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 29th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606293. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✓ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR and/or during manual data review of ADR output:

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: H12-SB01-05 **Collected:** 6/7/2016 1:00:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.051	J	0.037	LOD	0.19	LOQ	mg/Kg	J	RI
BERYLLIUM	0.11	J	0.037	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: H12-SS01-01 **Collected:** 6/7/2016 12:50:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.037	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.025	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
NICKEL	3.3	J	0.74	LOD	3.7	LOQ	mg/Kg	J	RI

Sample ID: H20-SS01-01 **Collected:** 6/7/2016 10:15:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.2	J	1.0	LOD	2.0	LOQ	mg/Kg	J	RI
SILVER	0.28	J	0.25	LOD	1.0	LOQ	mg/Kg	J	RI

Sample ID: H20-SS01-02 **Collected:** 6/7/2016 10:20:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.036	J	0.037	LOD	0.19	LOQ	mg/Kg	J	RI
LEAD	3.0	J	0.74	LOD	3.7	LOQ	mg/Kg	J	RI

Sample ID: H20-SS02-01 **Collected:** 6/7/2016 10:25:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.3	J	0.82	LOD	1.6	LOQ	mg/Kg	J	RI
CADMIUM	0.14	J	0.041	LOD	0.21	LOQ	mg/Kg	J	RI
LEAD	2.9	J	0.82	LOD	4.1	LOQ	mg/Kg	J	RI

Sample ID: H20-SS02-02 **Collected:** 6/7/2016 10:50:00 AM **Analysis Type:** Dilution-1 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MAGNESIUM	2400		37	LOD	370	LOQ	mg/Kg	J+	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: H20-SS02-02 **Collected:** 6/7/2016 10:50:00 AM **Analysis Type:** Dilution-2 **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	8100		150	LOD	370	LOQ	mg/Kg	J+	Ms
IRON	26000		370	LOD	1100	LOQ	mg/Kg	J-	Ms

Sample ID: H20-SS02-02 **Collected:** 6/7/2016 10:50:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	40	X	3.7	LOD	7.5	LOQ	mg/Kg	J+	Ms
CALCIUM	1000	X	7.5	LOD	37	LOQ	mg/Kg	J+	Ms
COPPER	67	X	0.75	LOD	3.7	LOQ	mg/Kg	J+	Ms
LEAD	3.0	J	0.75	LOD	3.7	LOQ	mg/Kg	J	RI
NICKEL	16	X	0.75	LOD	3.7	LOQ	mg/Kg	J+	Ms
POTASSIUM	1600	X	7.5	LOD	15	LOQ	mg/Kg	J+	Ms
SELENIUM	1.1	UX	1.1	LOD	1.5	LOQ	mg/Kg	UJ	Ms, Ms
VANADIUM	18	X	0.75	LOD	1.9	LOQ	mg/Kg	J+	Ms

Sample ID: H20-SS02-02 **Collected:** 6/7/2016 10:50:00 AM **Analysis Type:** Reanalysis-1 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	21	GX	0.30	LOD	0.37	LOQ	mg/Kg	J+	Ms
MANGANESE	180	X	0.19	LOD	0.75	LOQ	mg/Kg	J	Ms, Ms

Sample ID: H3-SS01-01 **Collected:** 6/7/2016 9:10:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.045	J	0.039	LOD	0.20	LOQ	mg/Kg	J	RI
NICKEL	2.8	J	0.79	LOD	3.9	LOQ	mg/Kg	J	RI

Sample ID: H3-SS01-02 **Collected:** 6/7/2016 9:15:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.10	J	0.039	LOD	0.20	LOQ	mg/Kg	J	RI
CADMIUM	0.030	J	0.039	LOD	0.20	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: H3-SS02-01 **Collected:** 6/7/2016 9:20:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.53	J	0.19	LOD	0.77	LOQ	mg/Kg	J	RI

Sample ID: H3-SS02-02 **Collected:** 6/7/2016 9:25:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.078	J	0.040	LOD	0.20	LOQ	mg/Kg	J	RI

Sample ID: H9-SS01-01 **Collected:** 6/6/2016 2:15:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.043	J	0.042	LOD	0.21	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB21-05 **Collected:** 6/7/2016 4:50:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.027	J	0.035	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	1.6	J	0.71	LOD	3.5	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H12-SB01-05 **Collected:** 6/7/2016 1:00:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.075	JG	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H12-SS01-01 **Collected:** 6/7/2016 12:50:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.067	JG	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix:** Soil

Sample ID: H20-SS01-01 **Collected:** 6/7/2016 10:15:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.068	JG	0.048	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: H20-SS01-02 **Collected:** 6/7/2016 10:20:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.14	JG	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H20-SS02-01 **Collected:** 6/7/2016 10:25:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.079	JG	0.040	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: H20-SS02-02 **Collected:** 6/7/2016 10:50:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.14	JG	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H3-SS01-01 **Collected:** 6/7/2016 9:10:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.054	JG	0.040	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: H3-SS01-02 **Collected:** 6/7/2016 9:15:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.066	JG	0.040	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: H3-SS02-01 **Collected:** 6/7/2016 9:20:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.074	JG	0.041	LOD	0.16	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H3-SS02-02 **Collected:** 6/7/2016 9:25:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.094	JG	0.041	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: H9-SS01-01 **Collected:** 6/6/2016 2:15:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.060	JG	0.043	LOD	0.17	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB21-05 **Collected:** 6/7/2016 4:50:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.052	JG	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Method Category: SVOA

Method: 8082A **Matrix: Soil**

Sample ID: H20-SS02-02 **Collected:** 6/7/2016 10:50:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.0078	U	0.0078	LOD	0.039	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.0078	U	0.0078	LOD	0.039	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.0078	U	0.0078	LOD	0.039	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.0078	U	0.0078	LOD	0.039	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.0078	U	0.0078	LOD	0.039	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.0078	U	0.0078	LOD	0.039	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.0078	U	0.0078	LOD	0.039	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.0078	U	0.0078	LOD	0.039	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.0078	U	0.0078	LOD	0.039	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Soil

Sample ID: H12-SB01-05 **Collected:** 6/7/2016 1:00:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.017		0.00074	LOD	0.00074	LOQ	mg/Kg	J+	Lcs

Sample ID: H12-SS01-01 **Collected:** 6/7/2016 12:50:00 PM **Analysis Type:** Dilution-1-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.074		0.0073	LOD	0.0073	LOQ	mg/Kg	J+	Lcs

Sample ID: H12-SS01-01 **Collected:** 6/7/2016 12:50:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.030		0.00073	LOD	0.00073	LOQ	mg/Kg	J+	Surr
ACENAPHTHENE	0.0080		0.00073	LOD	0.00073	LOQ	mg/Kg	J+	Surr
ACENAPHTHYLENE	0.0055		0.00073	LOD	0.00073	LOQ	mg/Kg	J+	Surr
ANTHRACENE	0.018		0.00073	LOD	0.00073	LOQ	mg/Kg	J+	Surr
DIBENZO(A,H)ANTHRACENE	0.0095		0.00073	LOD	0.00073	LOQ	mg/Kg	J+	Surr
FLUORENE	0.0074		0.00073	LOD	0.00073	LOQ	mg/Kg	J+	Surr
NAPHTHALENE	0.026		0.00073	LOD	0.00073	LOQ	mg/Kg	J+	Surr

Sample ID: H20-SS02-02 **Collected:** 6/7/2016 10:50:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.017	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Ms
BENZO(K)FLUORANTHENE	0.0078	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Ms
CHRYSENE	0.019	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J	Ms, Ms
FLUORANTHENE	0.032	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J	Ms, Ms, Ms
PHENANTHRENE	0.0077	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Ms
PYRENE	0.027	X	0.00078	LOD	0.00078	LOQ	mg/Kg	J	Ms, Ms

Sample ID: H3-SS02-02 **Collected:** 6/7/2016 9:25:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.0024		0.00084	LOD	0.00084	LOQ	mg/Kg	J+	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Soil

Sample ID: H20-SS01-01 **Collected:** 6/7/2016 10:15:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.25	UYQ	0.25	LOD	1.2	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.50	UQZ	0.50	LOD	1.5	LOQ	mg/Kg	UJ	Lcs

Sample ID: H20-SS01-01 **Collected:** 6/7/2016 10:15:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	0.15	J	0.025	LOD	0.24	LOQ	mg/Kg	J	Rl
DIBENZOFURAN	0.16	J	0.025	LOD	0.24	LOQ	mg/Kg	J	Rl

Sample ID: H20-SS01-02 **Collected:** 6/7/2016 10:20:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.19	UYQ	0.19	LOD	0.94	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.38	UQZ	0.38	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: H20-SS01-02 **Collected:** 6/7/2016 10:20:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZOFURAN	0.012	J	0.019	LOD	0.18	LOQ	mg/Kg	J	Rl

Sample ID: H20-SS02-02 **Collected:** 6/7/2016 10:50:00 AM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.19	UYQ	0.19	LOD	0.96	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.39	UQXZ	0.39	LOD	1.2	LOQ	mg/Kg	UJ	Lcs

Sample ID: H20-SS02-02 **Collected:** 6/7/2016 10:50:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.77	UX	0.77	LOD	1.2	LOQ	mg/Kg	UJ	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Soil**

Sample ID:H3-SS01-01 **Collected: 6/7/2016 9:10:00 AM** **Analysis Type: Initial-ACID** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.20	UYQ	0.20	LOD	1.0	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.65	JQZ	0.40	LOD	1.2	LOQ	mg/Kg	J	RI, Lcs

Sample ID:H3-SS01-02 **Collected: 6/7/2016 9:15:00 AM** **Analysis Type: Initial-ACID** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.20	UYQ	0.20	LOD	1.0	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.27	JQZ	0.40	LOD	1.2	LOQ	mg/Kg	J	RI, Lcs

Sample ID:H3-SS02-01 **Collected: 6/7/2016 9:20:00 AM** **Analysis Type: Initial-ACID** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.20	UYQ	0.20	LOD	1.0	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.38	JQZ	0.40	LOD	1.2	LOQ	mg/Kg	J	RI, Lcs

Sample ID:H3-SS02-02 **Collected: 6/7/2016 9:25:00 AM** **Analysis Type: Initial-ACID** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	0.21	UYQ	0.21	LOD	1.0	LOQ	mg/Kg	UJ	Lcs
BENZOIC ACID	0.31	JQZ	0.41	LOD	1.2	LOQ	mg/Kg	J	RI, Lcs

Sample ID:H3-SS02-02 **Collected: 6/7/2016 9:25:00 AM** **Analysis Type: Initial-BASE/ NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
bis(2-chloroethoxy) methane	0.034	J	0.021	LOD	0.20	LOQ	mg/Kg	J	RI

Method Category: VOA

Method: 8260C **Matrix: Soil**

Sample ID:H12-SB01-05 **Collected: 6/7/2016 1:00:00 PM** **Analysis Type: Initial** **Dilution: 0.81**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.0078	J	0.0091	LOD	0.018	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: VOA

Method: 8260C **Matrix:** Soil

Sample ID: H12-SB01-05 **Collected:** 6/7/2016 1:00:00 PM **Analysis Type:** Initial **Dilution:** 0.81

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.074	YQ	0.0018	LOD	0.0091	LOQ	mg/Kg	UJ	Lcs, Tb
BROMOFORM	0.00055	UQ	0.00055	LOD	0.00091	LOQ	mg/Kg	UJ	Lcs

Sample ID: H12-SS01-01 **Collected:** 6/7/2016 12:50:00 PM **Analysis Type:** Initial **Dilution:** 0.76

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.011	J	0.0085	LOD	0.017	LOQ	mg/Kg	J	RI
ACETONE	0.15	YQ	0.0017	LOD	0.0085	LOQ	mg/Kg	J+	Lcs
BROMOFORM	0.00051	UQ	0.00051	LOD	0.00085	LOQ	mg/Kg	UJ	Lcs

Sample ID: H20-SS01-02 **Collected:** 6/7/2016 10:20:00 AM **Analysis Type:** Initial **Dilution:** 3.65

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.060	YQ	0.0084	LOD	0.042	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
BROMOFORM	0.0025	UQ	0.0025	LOD	0.0042	LOQ	mg/Kg	UJ	Lcs

Sample ID: H20-SS02-02 **Collected:** 6/7/2016 10:50:00 AM **Analysis Type:** Initial **Dilution:** 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.0069	J	0.011	LOD	0.022	LOQ	mg/Kg	J	RI
ACETONE	0.15	YQ	0.0022	LOD	0.011	LOQ	mg/Kg	J+	Lcs
BROMOFORM	0.00065	UQ	0.00065	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs

Sample ID: H3-SS01-02 **Collected:** 6/7/2016 9:15:00 AM **Analysis Type:** Initial **Dilution:** 1.34

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.22	YQ	0.0032	LOD	0.016	LOQ	mg/Kg	J+	Lcs
BROMOFORM	0.00097	UQ	0.00097	LOD	0.0016	LOQ	mg/Kg	UJ	Lcs

Sample ID: H3-SS02-02 **Collected:** 6/7/2016 9:25:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.13	YQ	0.0025	LOD	0.013	LOQ	mg/Kg	J+	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **H3-SS02-02** ***Collected:*** **6/7/2016 9:25:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.00075	UQ	0.00075	LOD	0.0013	LOQ	mg/Kg	UJ	Lcs

Sample ID: **TB-SO-060716-01** ***Collected:*** **6/7/2016 8:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.0090	JYQ	0.0020	LOD	0.010	LOQ	mg/Kg	UJ	Lcs, Mb
BROMOFORM	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0017	JB	0.0020	LOD	0.0050	LOQ	mg/Kg	U	Mb

Sample ID: **TB-SO-060716-02** ***Collected:*** **6/7/2016 9:00:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.011	YQ	0.0020	LOD	0.010	LOQ	mg/Kg	UJ	Lcs, Mb
BROMOFORM	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0062	B	0.0020	LOD	0.0050	LOQ	mg/Kg	U	Mb

Sample ID: **WDS-SB24-04** ***Collected:*** **6/7/2016 2:10:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.59**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.0092	J	0.0073	LOD	0.015	LOQ	mg/Kg	J	RI
ACETONE	0.072	YQ	0.0015	LOD	0.0073	LOQ	mg/Kg	UJ	Lcs, Tb
BROMOFORM	0.00044	UQ	0.00044	LOD	0.00073	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB25-08** ***Collected:*** **6/7/2016 3:50:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.82**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.15	YQ	0.0019	LOD	0.0095	LOQ	mg/Kg	J+	Lcs
BROMOFORM	0.00057	UQ	0.00057	LOD	0.00095	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB26-05** ***Collected:*** **6/7/2016 4:20:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.8**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.068	YQ	0.0019	LOD	0.0097	LOQ	mg/Kg	UJ	Lcs, Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: VOA

Method: 8260C **Matrix: Soil**

Sample ID: WDS-SB26-05 **Collected:** 6/7/2016 4:20:00 PM **Analysis Type:** Initial **Dilution:** 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.00058	UQ	0.00058	LOD	0.00097	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB27-08 DUP **Collected:** 6/7/2016 3:05:00 PM **Analysis Type:** Initial **Dilution:** 0.4

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.032	YQ	0.00098	LOD	0.0049	LOQ	mg/Kg	UJ	Lcs, Tb
CARBON DISULFIDE	0.00030	J	0.00029	LOD	0.00049	LOQ	mg/Kg	J	RI

Method Category: VOA

Method: 8260C-ME **Matrix: Soil**

Sample ID: H20-SS01-01 **Collected:** 6/7/2016 10:15:00 AM **Analysis Type:** Initial **Dilution:** 91.5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.083	UQ	0.083	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.24	J	0.28	LOD	0.69	LOQ	mg/Kg	J	RI
BROMODICHLOROMETHANE	0.083	UQ	0.083	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
BROMOFORM	0.083	UYQ	0.083	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.083	UQ	0.083	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.083	UQ	0.083	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
STYRENE	0.083	UQ	0.083	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.083	UQ	0.083	LOD	0.14	LOQ	mg/Kg	UJ	Lcs

Sample ID: H20-SS02-01 **Collected:** 6/7/2016 10:25:00 AM **Analysis Type:** Initial **Dilution:** 203.1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.15	UQ	0.15	LOD	0.25	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.49	J	0.51	LOD	1.3	LOQ	mg/Kg	J	RI
BROMODICHLOROMETHANE	0.15	UQ	0.15	LOD	0.25	LOQ	mg/Kg	UJ	Lcs
BROMOFORM	0.15	UYQ	0.15	LOD	0.25	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.15	UQ	0.15	LOD	0.25	LOQ	mg/Kg	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.15	UQ	0.15	LOD	0.25	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **H20-SS02-01** ***Collected:*** **6/7/2016 10:25:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **203.1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STYRENE	0.15	UQ	0.15	LOD	0.25	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.15	UQ	0.15	LOD	0.25	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H3-SS01-01** ***Collected:*** **6/7/2016 9:10:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **115.4**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.084	UQ	0.084	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.19	J	0.28	LOD	0.70	LOQ	mg/Kg	J	RI
BROMODICHLOROMETHANE	0.084	UQ	0.084	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
BROMOFORM	0.084	UYQ	0.084	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.084	UQ	0.084	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.084	UQ	0.084	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
STYRENE	0.084	UQ	0.084	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.084	UQ	0.084	LOD	0.14	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H3-SS02-01** ***Collected:*** **6/7/2016 9:20:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **107.2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.079	UQ	0.079	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.079	UQ	0.079	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
BROMOFORM	0.079	UYQ	0.079	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.079	UQ	0.079	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.079	UQ	0.079	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.13	J	0.13	LOD	0.26	LOQ	mg/Kg	J	RI
STYRENE	0.079	UQ	0.079	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.079	UQ	0.079	LOD	0.13	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB21-05** ***Collected:*** **6/7/2016 4:50:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **76.2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.050	UQ	0.050	LOD	0.083	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.050	UQ	0.050	LOD	0.083	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **WDS-SB21-05** ***Collected:*** **6/7/2016 4:50:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **76.2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.050	UYQ	0.050	LOD	0.083	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.050	UQ	0.050	LOD	0.083	LOQ	mg/Kg	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.050	UQ	0.050	LOD	0.083	LOQ	mg/Kg	UJ	Lcs
STYRENE	0.050	UQ	0.050	LOD	0.083	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.050	UQ	0.050	LOD	0.083	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB22-05** ***Collected:*** **6/7/2016 3:35:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **90**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.062	UQ	0.062	LOD	0.10	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.21	J	0.21	LOD	0.51	LOQ	mg/Kg	J	RI
BROMODICHLOROMETHANE	0.062	UQ	0.062	LOD	0.10	LOQ	mg/Kg	UJ	Lcs
BROMOFORM	0.062	UYQ	0.062	LOD	0.10	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.062	UQ	0.062	LOD	0.10	LOQ	mg/Kg	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.062	UQ	0.062	LOD	0.10	LOQ	mg/Kg	UJ	Lcs
STYRENE	0.062	UQ	0.062	LOD	0.10	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.062	UQ	0.062	LOD	0.10	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB23-05** ***Collected:*** **6/7/2016 2:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **133.9**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.80	J	1.1	LOD	2.2	LOQ	mg/Kg	J	RI
BROMOFORM	0.13	UQ	0.13	LOD	0.22	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB27-08** ***Collected:*** **6/7/2016 3:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **268.1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.20	UQ	0.20	LOD	0.34	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.20	UQ	0.20	LOD	0.34	LOQ	mg/Kg	UJ	Lcs
BROMOFORM	0.20	UYQ	0.20	LOD	0.34	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.20	UQ	0.20	LOD	0.34	LOQ	mg/Kg	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.20	UQ	0.20	LOD	0.34	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **WDS-SB27-08** ***Collected:*** **6/7/2016 3:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **268.1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
STYRENE	0.20	UQ	0.20	LOD	0.34	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.20	UQ	0.20	LOD	0.34	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	A
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Surrogate Outlier Report

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H20-SS02-02 (Initial)	DECACHLOROBIPHENYL	59.1	60.00-125.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D SIM
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H12-SS01-01 (Initial)	Terphenyl-d14	157	58.00-133.00	All Base/Neutral Target Analytes	J+ (all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H20-SS02-02MSD (H20-SS02-02)	BENZOIC ACID	-	123	40.00-117.00	65.99 (25.00)	BENZOIC ACID	J (all detects)
H20-SS02-02MS H20-SS02-02MSD (H20-SS02-02)	3,3'-DICHLOROBENZIDINE	0	0	22.00-121.00	-	3,3'-DICHLOROBENZIDINE	J-(all detects) UJ(all non-detects)

Method: 6010C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H20-SS02-02MS (Dry) H20-SS02-02MSD (Dry) (H20-SS02-02)	MANGANESE SELENIUM	48.2 23.8	156 31.1	84.00-114.00 78.00-111.00	- 25.37 (20.00)	MANGANESE SELENIUM	J(all detects) UJ(all non-detects)
H20-SS02-02MS (Dry) H20-SS02-02MSD (Dry) (H20-SS02-02)	IRON	-253	60.2	81.00-118.00	-	IRON	J-(all detects) UJ(all non-detects)
H20-SS02-02MS (Dry) H20-SS02-02MSD (Dry) (H20-SS02-02)	ALUMINUM BARIUM CALCIUM CHROMIUM COPPER MAGNESIUM NICKEL POTASSIUM VANADIUM	4750 - 193 130 152 161 153 269 119	9910 145 210 114 128 331 129 283 118	74.00-119.00 83.00-113.00 81.00-116.00 85.00-113.00 81.00-117.00 78.00-115.00 83.00-113.00 81.00-116.00 82.00-114.00	- - - - - - - - -	ALUMINUM BARIUM CALCIUM CHROMIUM COPPER MAGNESIUM NICKEL POTASSIUM VANADIUM	J+(all detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H20-SS02-02MS H20-SS02-02MSD (H20-SS02-02)	CHRYSENE FLUORANTHENE PYRENE	- 122 -	8.61 35 19.8	57.00-118.00 55.00-119.00 55.00-117.00	37.55 (25.00) 30.18 (25.00) 30.59 (25.00)	CHRYSENE FLUORANTHENE PYRENE	J(all detects) UJ(all non-detects)
H20-SS02-02MSD (H20-SS02-02)	BENZ(A)ANTHRACENE BENZO(K)FLUORANTHENE	- -	39.6 38	54.00-122.00 56.00-123.00	- -	BENZ(A)ANTHRACENE BENZO(K)FLUORANTHENE	J-(all detects) UJ(all non-detects)
H20-SS02-02MSD (H20-SS02-02)	PHENANTHRENE	-	123	49.00-113.00	-	PHENANTHRENE	J+(all detects)

Project Name and Number: - USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40135 (H20-SS01-01 H20-SS01-02 H20-SS02-02 H3-SS01-01 H3-SS01-02 H3-SS02-01 H3-SS02-02)	2,4-DINITROPHENOL BENZOIC ACID	46.4 14.1	- -	50.00-130.00 40.00-117.00	- -	2,4-DINITROPHENOL BENZOIC ACID	J- (all detects) UJ (all non-detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40172 (H12-SB01-05 H12-SS01-01 H3-SS02-02 WDS-SB21-05)	BENZO(G,H,I)PERYLENE	130	-	49.00-127.00	-	BENZO(G,H,I)PERYLENE	J+(all detects)

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCSD 0614 (H12-SB01-05 H12-SS01-01 H20-SS01-02 H20-SS02-02 H3-SS01-02 H3-SS02-02 TB-SO-060716-01 TB-SO-060716-02 WDS-SB24-04 WDS-SB25-08 WDS-SB26-05)	BROMOFORM	-	66.1	67.00-132.00	-	BROMOFORM	J-(all detects) UJ(all non-detects)
VOA11B LCS 06141 VOA11B LCSD 0614 (H12-SB01-05 H12-SS01-01 H20-SS01-02 H20-SS02-02 H3-SS01-02 H3-SS02-02 TB-SO-060716-01 TB-SO-060716-02 WDS-SB24-04 WDS-SB25-08 WDS-SB26-05)	ACETONE TOLUENE	184 284	168 333	36.00-164.00 77.00-121.00	- -	ACETONE TOLUENE	J+(all detects)
VOA11B LCS 06151 VOA11B LCSD 0615 (WDS-SB27-08 DUP)	ACETONE METHYLENE CHLORIDE	185 198	180 178	36.00-164.00 70.00-128.00	- -	ACETONE METHYLENE CHLORIDE	J+(all detects)

Project Name and Number: - USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: **8260C-ME**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
VOA11B LCS2 0617 (H20-SS01-01 H20-SS02-01 H3-SS01-01 H3-SS02-01 WDS-SB21-05 WDS-SB22-05 WDS-SB27-08)	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE STYRENE TRANS-1,3-DICHLOROPROPENE	77.3 72.1 57 62.8 70 75.6 67.5	- - - - - - -	78.00-125.00 75.00-127.00 67.00-132.00 74.00-126.00 74.00-126.00 76.00-124.00 71.00-130.00	- - - - - - -	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE STYRENE TRANS-1,3-DICHLOROPROPENE	J-(all detects) UJ(all non-detects)
VOA11B LCS 06201 (WDS-SB23-05)	BROMOFORM	65.5	-	67.00-132.00	-	BROMOFORM	J-(all detects) UJ(all non-detects)

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-SO-060716-01(Initial)	6/7/2016 8:50:00 AM	ACETONE METHYLENE CHLORIDE	0.009 mg/Kg 0.0017 mg/Kg	H20-SS01-01 H20-SS01-02 H20-SS02-01 H20-SS02-02 H3-SS01-01 H3-SS01-02 H3-SS02-01 H3-SS02-02
TB-SO-060716-02(Initial)	6/7/2016 9:00:00 AM	ACETONE METHYLENE CHLORIDE	0.011 mg/Kg 0.0062 mg/Kg	H12-SB01-05 H12-SS01-01 WDS-SB21-05 WDS-SB22-05 WDS-SB23-05 WDS-SB24-04 WDS-SB25-08 WDS-SB26-05 WDS-SB27-08 WDS-SB27-08 DUP

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H12-SB01-05(Initial)	ACETONE	0.074 mg/Kg	0.074U mg/Kg
H20-SS01-02(Initial)	ACETONE	0.060 mg/Kg	0.060U mg/Kg
WDS-SB24-04(Initial)	ACETONE	0.072 mg/Kg	0.072U mg/Kg
WDS-SB26-05(Initial)	ACETONE	0.068 mg/Kg	0.068U mg/Kg
WDS-SB27-08 DUP(Initial)	ACETONE	0.032 mg/Kg	0.032U mg/Kg

Project Name and Number: - USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H12-SB01-05	BERYLLIUM CADMIUM	J J	0.11 0.051	0.19 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H12-SS01-01	BERYLLIUM CADMIUM NICKEL	J J J	0.037 0.025 3.3	0.18 0.18 3.7	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H20-SS01-01	ARSENIC SILVER	J J	1.2 0.28	2.0 1.0	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H20-SS01-02	CADMIUM LEAD	J J	0.036 3.0	0.19 3.7	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H20-SS02-01	ARSENIC CADMIUM LEAD	J J J	1.3 0.14 2.9	1.6 0.21 4.1	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H20-SS02-02	LEAD	J	3.0	3.7	LOQ	mg/Kg	J (all detects)
H3-SS01-01	CADMIUM NICKEL	J J	0.045 2.8	0.20 3.9	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H3-SS01-02	BERYLLIUM CADMIUM	J J	0.10 0.030	0.20 0.20	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H3-SS02-01	SILVER	J	0.53	0.77	LOQ	mg/Kg	J (all detects)
H3-SS02-02	BERYLLIUM	J	0.078	0.20	LOQ	mg/Kg	J (all detects)
H9-SS01-01	CADMIUM	J	0.043	0.21	LOQ	mg/Kg	J (all detects)
WDS-SB21-05	CADMIUM LEAD	J J	0.027 1.6	0.18 3.5	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H12-SB01-05	THALLIUM	JG	0.075	0.15	LOQ	mg/Kg	J (all detects)
H12-SS01-01	THALLIUM	JG	0.067	0.14	LOQ	mg/Kg	J (all detects)
H20-SS01-01	THALLIUM	JG	0.068	0.19	LOQ	mg/Kg	J (all detects)
H20-SS01-02	THALLIUM	JG	0.14	0.15	LOQ	mg/Kg	J (all detects)
H20-SS02-01	THALLIUM	JG	0.079	0.16	LOQ	mg/Kg	J (all detects)
H20-SS02-02	THALLIUM	JG	0.14	0.15	LOQ	mg/Kg	J (all detects)
H3-SS01-01	THALLIUM	JG	0.054	0.16	LOQ	mg/Kg	J (all detects)
H3-SS01-02	THALLIUM	JG	0.066	0.16	LOQ	mg/Kg	J (all detects)
H3-SS02-01	THALLIUM	JG	0.074	0.16	LOQ	mg/Kg	J (all detects)
H3-SS02-02	THALLIUM	JG	0.094	0.16	LOQ	mg/Kg	J (all detects)
H9-SS01-01	THALLIUM	JG	0.060	0.17	LOQ	mg/Kg	J (all detects)
WDS-SB21-05	THALLIUM	JG	0.052	0.14	LOQ	mg/Kg	J (all detects)

Project Name and Number: - USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606293 **Laboratory: RTILABS**

EDD Filename: EDD_1606293_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: 8260C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H12-SB01-05	2-Butanone [MEK]	J	0.0078	0.018	LOQ	mg/Kg	J (all detects)
H12-SS01-01	2-Butanone [MEK]	J	0.011	0.017	LOQ	mg/Kg	J (all detects)
H20-SS02-02	2-Butanone [MEK]	J	0.0069	0.022	LOQ	mg/Kg	J (all detects)
TB-SO-060716-01	ACETONE METHYLENE CHLORIDE	JYQ JB	0.0090 0.0017	0.010 0.0050	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB24-04	2-Butanone [MEK]	J	0.0092	0.015	LOQ	mg/Kg	J (all detects)
WDS-SB27-08 DUP	CARBON DISULFIDE	J	0.00030	0.00049	LOQ	mg/Kg	J (all detects)

Method: 8260C-ME

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H20-SS01-01	ACETONE	J	0.24	0.69	LOQ	mg/Kg	J (all detects)
H20-SS02-01	ACETONE	J	0.49	1.3	LOQ	mg/Kg	J (all detects)
H3-SS01-01	ACETONE	J	0.19	0.70	LOQ	mg/Kg	J (all detects)
H3-SS02-01	METHYLENE CHLORIDE	J	0.13	0.26	LOQ	mg/Kg	J (all detects)
WDS-SB22-05	ACETONE	J	0.21	0.51	LOQ	mg/Kg	J (all detects)
WDS-SB23-05	2-Butanone [MEK]	J	0.80	2.2	LOQ	mg/Kg	J (all detects)

Method: 8270D-MOD

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H20-SS01-01	CARBAZOLE DIBENZOFURAN	J J	0.15 0.16	0.24 0.24	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H20-SS01-02	DIBENZOFURAN	J	0.012	0.18	LOQ	mg/Kg	J (all detects)
H3-SS01-01	BENZOIC ACID	JQZ	0.65	1.2	LOQ	mg/Kg	J (all detects)
H3-SS01-02	BENZOIC ACID	JQZ	0.27	1.2	LOQ	mg/Kg	J (all detects)
H3-SS02-01	BENZOIC ACID	JQZ	0.38	1.2	LOQ	mg/Kg	J (all detects)
H3-SS02-02	BENZOIC ACID bis(2-chloroethoxy) methane	JQZ J	0.31 0.034	1.2 0.20	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606392		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	20 soil samples and 1 trip blank for a project-specific list of VOCs, SVOCs, PAHs, PCBs, and metals		
Data Reviewer:	Zach Neigh AECOM/Baltimore, MD		
Completed:	August 29th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606392. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

✓ Field rinsate blank data

✓ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR and/or during manual data review.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: BG02-SB01-05 **Collected:** 6/10/2016 9:40:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.13	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl
LEAD	1.4	J	0.75	LOD	3.8	LOQ	mg/Kg	J	Rl

Sample ID: BG02-SB01-06 **Collected:** 6/10/2016 9:40:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.13	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl
CADMIUM	0.035	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl
LEAD	1.8	J	0.76	LOD	3.8	LOQ	mg/Kg	J	Rl

Sample ID: BG02-SB02-05 **Collected:** 6/10/2016 10:15:00 AM **Analysis Type:** Dilution-1 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	6400		34	LOD	100	LOQ	mg/Kg	J-	Ms

Sample ID: BG02-SB02-05 **Collected:** 6/10/2016 10:15:00 AM **Analysis Type:** Dilution-2 **Dilution:** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	4000		140	LOD	340	LOQ	mg/Kg	J+	Ms

Sample ID: BG02-SB02-05 **Collected:** 6/10/2016 10:15:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.1	J	0.68	LOD	1.4	LOQ	mg/Kg	J	Rl
BERYLLIUM	0.092	J	0.034	LOD	0.17	LOQ	mg/Kg	J	Rl
CALCIUM	490	X	6.8	LOD	34	LOQ	mg/Kg	J+	Ms
LEAD	1.2	J	0.68	LOD	3.4	LOQ	mg/Kg	J	Rl
MAGNESIUM	920	X	3.4	LOD	34	LOQ	mg/Kg	J-	Ms
MANGANESE	120	X	0.17	LOD	0.68	LOQ	mg/Kg	J-	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **BG02-SB02-05** ***Collected:*** **6/10/2016 10:15:00 AM** ***Analysis Type:*** **Reanalysis-1** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	350		6.8	LOD	14	LOQ	mg/Kg	J+	Ms

Sample ID: **BG02-SB02-10** ***Collected:*** **6/10/2016 10:20:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.041	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI
LEAD	1.1	J	0.78	LOD	3.9	LOQ	mg/Kg	J	RI
NICKEL	2.8	J	0.78	LOD	3.9	LOQ	mg/Kg	J	RI

Sample ID: **BG02-SB03-05** ***Collected:*** **6/10/2016 9:10:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.11	J	0.033	LOD	0.17	LOQ	mg/Kg	J	RI
CADMIUM	0.025	J	0.033	LOD	0.17	LOQ	mg/Kg	J	RI
LEAD	1.8	J	0.66	LOD	3.3	LOQ	mg/Kg	J	RI

Sample ID: **BG02-SB03-10** ***Collected:*** **6/10/2016 9:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.026	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	2.5	J	0.73	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: **BG02-SB04-04** ***Collected:*** **6/10/2016 8:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.1	J	0.70	LOD	1.4	LOQ	mg/Kg	J	RI
BERYLLIUM	0.091	J	0.035	LOD	0.17	LOQ	mg/Kg	J	RI
CADMIUM	0.031	J	0.035	LOD	0.17	LOQ	mg/Kg	J	RI
LEAD	1.1	J	0.70	LOD	3.5	LOQ	mg/Kg	J	RI
NICKEL	3.1	J	0.70	LOD	3.5	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: BG02-SB04-05 **Collected:** 6/10/2016 8:50:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.10	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl
CADMIUM	0.030	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl, Fd
LEAD	1.2	J	0.75	LOD	3.8	LOQ	mg/Kg	J	Rl
NICKEL	3.2	J	0.75	LOD	3.8	LOQ	mg/Kg	J	Rl

Sample ID: BG02-SB04-05 DUP **Collected:** 6/10/2016 8:50:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.15	J	0.037	LOD	0.18	LOQ	mg/Kg	J	Rl
CADMIUM	0.037	U	0.037	LOD	0.18	LOQ	mg/Kg	UJ	Fd
LEAD	1.9	J	0.74	LOD	3.7	LOQ	mg/Kg	J	Rl

Sample ID: BG02-SS01-01 **Collected:** 6/10/2016 9:35:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.033	J	0.036	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	3.0	J	0.72	LOD	3.6	LOQ	mg/Kg	J	Rl

Sample ID: BG02-SS02-01 **Collected:** 6/10/2016 10:05:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.1	J	0.72	LOD	1.4	LOQ	mg/Kg	J	Rl
LEAD	2.7	J	0.72	LOD	3.6	LOQ	mg/Kg	J	Rl

Sample ID: BG02-SS03-01 **Collected:** 6/10/2016 9:05:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.99	J	0.73	LOD	1.5	LOQ	mg/Kg	J	Rl
CADMIUM	0.043	J	0.037	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	3.4	J	0.73	LOD	3.7	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: BG02-SS04-01 **Collected:** 6/10/2016 8:45:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	2.6	J	0.72	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS05-01 **Collected:** 6/10/2016 9:55:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.039	J	0.037	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	3.5	J	0.73	LOD	3.7	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS06-01 **Collected:** 6/10/2016 9:25:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.031	J	0.037	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS07-01 **Collected:** 6/10/2016 9:00:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.088	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI
LEAD	2.5	J	0.75	LOD	3.8	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS08-01 **Collected:** 6/10/2016 8:40:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.75	J	0.41	LOD	0.83	LOQ	mg/Kg	J	RI
ARSENIC	0.99	J	0.83	LOD	1.7	LOQ	mg/Kg	J	RI
COBALT	0.68	J	0.21	LOD	0.83	LOQ	mg/Kg	J	RI
LEAD	2.9	J	0.83	LOD	4.1	LOQ	mg/Kg	J	RI
NICKEL	2.2	J	0.83	LOD	4.1	LOQ	mg/Kg	J	RI

Sample ID: H17-SS01-01 **Collected:** 6/9/2016 1:40:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.051	J	0.037	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.034	J	0.037	LOD	0.19	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: H17-SS02-01 **Collected:** 6/9/2016 3:20:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.056	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI
CADMIUM	0.082	J	0.039	LOD	0.19	LOQ	mg/Kg	J	RI

Sample ID: H17-SS03-01 **Collected:** 6/9/2016 2:25:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.10	J	0.038	LOD	0.19	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: BG02-SB01-05 **Collected:** 6/10/2016 9:40:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.056	J	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: BG02-SB01-06 **Collected:** 6/10/2016 9:40:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.054	J	0.036	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: BG02-SB02-05 **Collected:** 6/10/2016 10:15:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.051	J	0.034	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: BG02-SB02-10 **Collected:** 6/10/2016 10:20:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.042	J	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix:** Soil

Sample ID: BG02-SB03-05 **Collected:** 6/10/2016 9:10:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.048	J	0.034	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: BG02-SB03-10 **Collected:** 6/10/2016 9:15:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.14	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: BG02-SB04-05 **Collected:** 6/10/2016 8:50:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.050	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: BG02-SB04-05 DUP **Collected:** 6/10/2016 8:50:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.043	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS01-01 **Collected:** 6/10/2016 9:35:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.095	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS02-01 **Collected:** 6/10/2016 10:05:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.056	J	0.036	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS03-01 **Collected:** 6/10/2016 9:05:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.065	J	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix:** Soil

Sample ID: BG02-SS04-01 **Collected:** 6/10/2016 8:45:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.063	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS05-01 **Collected:** 6/10/2016 9:55:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.059	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS06-01 **Collected:** 6/10/2016 9:25:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.088	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS07-01 **Collected:** 6/10/2016 9:00:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.071	J	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: BG02-SS08-01 **Collected:** 6/10/2016 8:40:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.052	J	0.042	LOD	0.17	LOQ	mg/Kg	J	RI

Sample ID: H17-SS01-01 **Collected:** 6/9/2016 1:40:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.081	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H17-SS02-01 **Collected:** 6/9/2016 3:20:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.089	J	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H17-SS03-01 **Collected:** 6/9/2016 2:25:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.082	J	0.039	LOD	0.15	LOQ	mg/Kg	J	Rl

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: H17-SS02-01 **Collected:** 6/9/2016 3:20:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0016		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
2-METHYLNAPHTHALENE	0.0027		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
ACENAPHTHENE	0.00079		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
ACENAPHTHYLENE	0.0013		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
ANTHRACENE	0.010		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
BENZ(A)ANTHRACENE	0.0098		0.00078	LOD	0.00078	LOQ	mg/Kg	J	Lcs, Surr
BENZO(A)PYRENE	0.0077		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
BENZO(B)FLUORANTHENE	0.018	Y	0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
BENZO(G,H,I)PERYLENE	0.00078	U	0.00078	LOD	0.00078	LOQ	mg/Kg	UJ	Surr
BENZO(K)FLUORANTHENE	0.0033		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
CHRYSENE	0.0079		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
DIBENZO(A,H)ANTHRACENE	0.00078	U	0.00078	LOD	0.00078	LOQ	mg/Kg	UJ	Surr
FLUORANTHENE	0.016		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
FLUORENE	0.0011		0.00078	LOD	0.00078	LOQ	mg/Kg	J	Lcs, Surr
INDENO(1,2,3-CD)PYRENE	0.00078	U	0.00078	LOD	0.00078	LOQ	mg/Kg	UJ	Surr
NAPHTHALENE	0.0030		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr
PHENANTHRENE	0.012		0.00078	LOD	0.00078	LOQ	mg/Kg	J	Lcs, Surr
PYRENE	0.018		0.00078	LOD	0.00078	LOQ	mg/Kg	J-	Surr

Sample ID: H17-SS03-01 **Collected:** 6/9/2016 2:25:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.0089		0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Lcs
FLUORENE	0.00092		0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA
Method: 8270D SIM **Matrix: Soil**

Sample ID: H17-SS03-01 **Collected:** 6/9/2016 2:25:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	0.0089		0.00078	LOD	0.00078	LOQ	mg/Kg	J+	Lcs

Method Category: SVOA
Method: 8270D-MOD **Matrix: Soil**

Sample ID: H17-SS02-01 **Collected:** 6/9/2016 3:20:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.70	JYZ	0.39	LOD	1.2	LOQ	mg/Kg	J	Rl

Method Category: VOA
Method: 8260C **Matrix: Soil**

Sample ID: TB-SO-060916-01 **Collected:** 6/9/2016 9:10:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.0074	JYQ	0.0020	LOD	0.010	LOQ	mg/Kg	J	Rl

Method Category: VOA
Method: 8260C-ME **Matrix: Soil**

Sample ID: H17-SS01-01 **Collected:** 6/9/2016 1:40:00 PM **Analysis Type:** Initial **Dilution:** 139

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.096	UQ	0.096	LOD	0.16	LOQ	mg/Kg	UJ	Lcs

Sample ID: H17-SS02-01 **Collected:** 6/9/2016 3:20:00 PM **Analysis Type:** Initial **Dilution:** 143.5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.10	UQ	0.10	LOD	0.17	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.091	J	0.10	LOD	0.34	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **H17-SS03-01** ***Collected:*** **6/9/2016 2:25:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **103.2**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BROMOFORM	0.072	UQ	0.072	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.055	J	0.072	LOD	0.24	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40215	7/1/2016 12:04:54 PM	POTASSIUM SILVER	4.5 mg/Kg 0.063 mg/Kg	BG02-SB01-05 BG02-SB01-06 BG02-SB02-05 BG02-SB02-10 BG02-SB03-05 BG02-SB03-10 BG02-SB04-04 BG02-SB04-05 BG02-SB04-05 DUP BG02-SS01-01 BG02-SS02-01 BG02-SS03-01 BG02-SS04-01 BG02-SS05-01 BG02-SS06-01

Surrogate Outlier Report

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method: **8270D SIM**
Matrix: **Soil**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
H17-SS02-01 (Initial)	2-FLUOROBIPHENYL	1.26	46.00-115.00	All Base/Neutral Target Analytes	J- (all detects) UJ (all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method: **8270D SIM**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
BG02-SB02-05MS (BG02-SB02-05)	BENZ(A)ANTHRACENE PHENANTHRENE	124 115	- -	54.00-122.00 49.00-113.00	- -	BENZ(A)ANTHRACENE PHENANTHRENE	J+ (all detects)

Method: **6010C**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
BG02-SB02-05MS (Dry) BG02-SB02-05MSD (Dry) (BG02-SB02-05)	IRON MAGNESIUM MANGANESE	-83.6 - 77.5	-25.6 45.5 82.4	81.00-118.00 78.00-115.00 84.00-114.00	- - -	IRON MAGNESIUM MANGANESE	J-(all detects) UJ(all non-detects)
BG02-SB02-05MS (Dry) BG02-SB02-05MSD (Dry) (BG02-SB02-05)	ALUMINUM CALCIUM POTASSIUM	1040 - 134	386 152 -	74.00-119.00 81.00-116.00 81.00-116.00	- - -	ALUMINUM CALCIUM POTASSIUM	J+(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40193 (H17-SS02-01 H17-SS03-01)	BENZ(A)ANTHRACENE FLUORENE PHENANTHRENE	134 116 129	- - -	54.00-122.00 47.00-114.00 49.00-113.00	- - -	BENZ(A)ANTHRACENE FLUORENE PHENANTHRENE	J+ (all detects)

Method: 8260C-ME
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06201 (H17-SS01-01 H17-SS02-01 H17-SS03-01)	BROMOFORM	65.5	-	67.00-132.00	-	BROMOFORM	J-(all detects) UJ(all non-detects)

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

Analyte	*Concentration (mg/Kg)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	BG02-SB04-05 (Dry)	BG02-SB04-05 DUP (Dry)			
CADMIUM	0.030	0.18 U	200	50.00	J (all detects) UJ (all non-detects)

Project Name and Number: - USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method: **6010C**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
BG02-SB01-05	BERYLLIUM	J	0.13	0.19	LOQ	mg/Kg	J (all detects)
	LEAD	J	1.4	3.8	LOQ	mg/Kg	
BG02-SB01-06	BERYLLIUM	J	0.13	0.19	LOQ	mg/Kg	J (all detects)
	CADMIUM	J	0.035	0.19	LOQ	mg/Kg	
	LEAD	J	1.8	3.8	LOQ	mg/Kg	
BG02-SB02-05	ARSENIC	J	1.1	1.4	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.092	0.17	LOQ	mg/Kg	
	LEAD	J	1.2	3.4	LOQ	mg/Kg	
BG02-SB02-10	BERYLLIUM	J	0.041	0.19	LOQ	mg/Kg	J (all detects)
	LEAD	J	1.1	3.9	LOQ	mg/Kg	
	NICKEL	J	2.8	3.9	LOQ	mg/Kg	
BG02-SB03-05	BERYLLIUM	J	0.11	0.17	LOQ	mg/Kg	J (all detects)
	CADMIUM	J	0.025	0.17	LOQ	mg/Kg	
	LEAD	J	1.8	3.3	LOQ	mg/Kg	
BG02-SB03-10	CADMIUM	J	0.026	0.18	LOQ	mg/Kg	J (all detects)
	LEAD	J	2.5	3.6	LOQ	mg/Kg	
BG02-SB04-04	ARSENIC	J	1.1	1.4	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.091	0.17	LOQ	mg/Kg	
	CADMIUM	J	0.031	0.17	LOQ	mg/Kg	
	LEAD	J	1.1	3.5	LOQ	mg/Kg	
	NICKEL	J	3.1	3.5	LOQ	mg/Kg	
BG02-SB04-05	BERYLLIUM	J	0.10	0.19	LOQ	mg/Kg	J (all detects)
	CADMIUM	J	0.030	0.19	LOQ	mg/Kg	
	LEAD	J	1.2	3.8	LOQ	mg/Kg	
	NICKEL	J	3.2	3.8	LOQ	mg/Kg	
BG02-SB04-05 DUP	BERYLLIUM	J	0.15	0.18	LOQ	mg/Kg	J (all detects)
	LEAD	J	1.9	3.7	LOQ	mg/Kg	
BG02-SS01-01	CADMIUM	J	0.033	0.18	LOQ	mg/Kg	J (all detects)
	LEAD	J	3.0	3.6	LOQ	mg/Kg	
BG02-SS02-01	ARSENIC	J	1.1	1.4	LOQ	mg/Kg	J (all detects)
	LEAD	J	2.7	3.6	LOQ	mg/Kg	
BG02-SS03-01	ARSENIC	J	0.99	1.5	LOQ	mg/Kg	J (all detects)
	CADMIUM	J	0.043	0.18	LOQ	mg/Kg	
	LEAD	J	3.4	3.7	LOQ	mg/Kg	
BG02-SS04-01	LEAD	J	2.6	3.6	LOQ	mg/Kg	J (all detects)
BG02-SS05-01	CADMIUM	J	0.039	0.18	LOQ	mg/Kg	J (all detects)
	LEAD	J	3.5	3.7	LOQ	mg/Kg	
BG02-SS06-01	CADMIUM	J	0.031	0.19	LOQ	mg/Kg	J (all detects)
BG02-SS07-01	BERYLLIUM	J	0.088	0.19	LOQ	mg/Kg	J (all detects)
	LEAD	J	2.5	3.8	LOQ	mg/Kg	
BG02-SS08-01	ANTIMONY	J	0.75	0.83	LOQ	mg/Kg	J (all detects)
	ARSENIC	J	0.99	1.7	LOQ	mg/Kg	
	COBALT	J	0.68	0.83	LOQ	mg/Kg	
	LEAD	J	2.9	4.1	LOQ	mg/Kg	
	NICKEL	J	2.2	4.1	LOQ	mg/Kg	
H17-SS01-01	BERYLLIUM	J	0.051	0.19	LOQ	mg/Kg	J (all detects)
	CADMIUM	J	0.034	0.19	LOQ	mg/Kg	

Project Name and Number: - USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H17-SS02-01	BERYLLIUM CADMIUM	J J	0.056 0.082	0.19 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H17-SS03-01	BERYLLIUM	J	0.10	0.19	LOQ	mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BG02-SB01-05	THALLIUM	J	0.056	0.15	LOQ	mg/Kg	J (all detects)
BG02-SB01-06	THALLIUM	J	0.054	0.14	LOQ	mg/Kg	J (all detects)
BG02-SB02-05	THALLIUM	J	0.051	0.14	LOQ	mg/Kg	J (all detects)
BG02-SB02-10	THALLIUM	J	0.042	0.15	LOQ	mg/Kg	J (all detects)
BG02-SB03-05	THALLIUM	J	0.048	0.14	LOQ	mg/Kg	J (all detects)
BG02-SB03-10	THALLIUM	J	0.14	0.15	LOQ	mg/Kg	J (all detects)
BG02-SB04-05	THALLIUM	J	0.050	0.14	LOQ	mg/Kg	J (all detects)
BG02-SB04-05 DUP	THALLIUM	J	0.043	0.15	LOQ	mg/Kg	J (all detects)
BG02-SS01-01	THALLIUM	J	0.095	0.15	LOQ	mg/Kg	J (all detects)
BG02-SS02-01	THALLIUM	J	0.056	0.14	LOQ	mg/Kg	J (all detects)
BG02-SS03-01	THALLIUM	J	0.065	0.15	LOQ	mg/Kg	J (all detects)
BG02-SS04-01	THALLIUM	J	0.063	0.14	LOQ	mg/Kg	J (all detects)
BG02-SS05-01	THALLIUM	J	0.059	0.15	LOQ	mg/Kg	J (all detects)
BG02-SS06-01	THALLIUM	J	0.088	0.15	LOQ	mg/Kg	J (all detects)
BG02-SS07-01	THALLIUM	J	0.071	0.15	LOQ	mg/Kg	J (all detects)
BG02-SS08-01	THALLIUM	J	0.052	0.17	LOQ	mg/Kg	J (all detects)
H17-SS01-01	THALLIUM	J	0.081	0.15	LOQ	mg/Kg	J (all detects)
H17-SS02-01	THALLIUM	J	0.089	0.16	LOQ	mg/Kg	J (all detects)
H17-SS03-01	THALLIUM	J	0.082	0.15	LOQ	mg/Kg	J (all detects)

Method: 8260C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TB-SO-060916-01	ACETONE	JYQ	0.0074	0.010	LOQ	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606392 **Laboratory: RTILABS**

EDD Filename: EDD_1606392_SEDD_2a_v13 **eQAPP Name: Former_Camp_Hero**

Method: 8260C-ME

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H17-SS02-01	METHYLENE CHLORIDE	J	0.091	0.34	LOQ	mg/Kg	J (all detects)
H17-SS03-01	METHYLENE CHLORIDE	J	0.055	0.24	LOQ	mg/Kg	J (all detects)

Method: 8270D-MOD

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H17-SS02-01	BENZOIC ACID	JYZ	0.70	1.2	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606467		
Date(s) of Collection:	June 12th, 2016		
Number/Type Samples & Analyses:	20 soil samples and 1 trip blank for a project-specific list of VOCs, STAR VOCs, SVOCs, PAHs, PCBs, lead, and metals		
Data Reviewer:	Zachary Neigh AECOM/Baltimore MD		
Completed:	August 30, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606467. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The initial analysis of the LCS demonstrated a slightly high bias for several PAH compounds. The re-analysis demonstrated acceptable results. However, the lab flagged the samples on the original analysis. The affected samples were H18-SS01-01 (MS/MSD), H18-SS01-01 DUP, H18-SS01-02, H18-SS02-01, and H18-SS02-02.

The following table defines the data qualifiers assigned by ADR and/or during manual data review of the ADR output:

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: H18-SS01-01 **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.033	J	0.035	LOD	0.17	LOQ	mg/Kg	J	Rl, Fd
LEAD	9.2		0.70	LOD	3.5	LOQ	mg/Kg	J	Fd

Sample ID: H18-SS01-01 DUP **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.036	U	0.036	LOD	0.18	LOQ	mg/Kg	UJ	Fd
LEAD	2.7	J	0.72	LOD	3.6	LOQ	mg/Kg	J	Rl, Fd
NICKEL	3.2	J	0.72	LOD	3.6	LOQ	mg/Kg	J	Rl

Sample ID: H18-SS01-02 **Collected:** 6/12/2016 3:45:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.031	J	0.035	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	2.3	J	0.70	LOD	3.5	LOQ	mg/Kg	J	Rl

Sample ID: H18-SS02-01 **Collected:** 6/12/2016 4:00:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.17	J	0.18	LOD	0.70	LOQ	mg/Kg	J	Rl

Sample ID: H18-SS02-02 **Collected:** 6/12/2016 4:05:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.1	J	0.69	LOD	1.4	LOQ	mg/Kg	J	Rl
LEAD	1.1	J	0.69	LOD	3.4	LOQ	mg/Kg	J	Rl
NICKEL	2.2	J	0.69	LOD	3.4	LOQ	mg/Kg	J	Rl

Sample ID: WDS-SB10-08 **Collected:** 6/12/2016 1:50:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.1	J	0.74	LOD	1.5	LOQ	mg/Kg	J	Rl
LEAD	2.1	J	0.74	LOD	3.7	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**
Method: **6010C** ***Matrix:*** **Soil**

Method Category: **METALS**
Method: **6010C-STAR** ***Matrix:*** **Soil**

Sample ID: **H4-SB02-05** ***Collected:*** **6/12/2016 2:15:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.2	J	0.74	LOD	3.7	LOQ	mg/Kg	J	RI

Sample ID: **H4-SB03-05** ***Collected:*** **6/12/2016 2:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	2.8	J	0.77	LOD	3.9	LOQ	mg/Kg	J	RI

Sample ID: **H6-SS02-01** ***Collected:*** **6/12/2016 11:30:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.0	J	0.85	LOD	4.2	LOQ	mg/Kg	J	RI

Sample ID: **H6-SS03-01** ***Collected:*** **6/12/2016 11:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	7.5	J	2.9	LOD	15	LOQ	mg/Kg	J	RI

Sample ID: **P113-SB01-05** ***Collected:*** **6/12/2016 12:35:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.1	J	0.76	LOD	3.8	LOQ	mg/Kg	J	RI

Sample ID: **P113-SB02-04** ***Collected:*** **6/12/2016 12:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	2.2	J	0.76	LOD	3.8	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H18-SS01-01 **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.050	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: H18-SS01-01 DUP **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.035	J	0.034	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: H18-SS01-02 **Collected:** 6/12/2016 3:45:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.041	J	0.034	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: H18-SS02-02 **Collected:** 6/12/2016 4:05:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.041	JG	0.033	LOD	0.13	LOQ	mg/Kg	J	RI

Sample ID: WDS-SB10-08 **Collected:** 6/12/2016 1:50:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.087	J	0.037	LOD	0.15	LOQ	mg/Kg	J	RI

Method Category: SVOA

Method: 8082A **Matrix: Soil**

Sample ID: H18-SS01-01 DUP **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.0072	U	0.0072	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.0072	U	0.0072	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.0072	U	0.0072	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.0072	U	0.0072	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.0072	U	0.0072	LOD	0.036	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8082A** ***Matrix:*** **Soil**

Sample ID: **H18-SS01-01 DUP** ***Collected:*** **6/12/2016 3:40:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.0072	U	0.0072	LOD	0.036	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.0072	U	0.0072	LOD	0.036	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.0072	U	0.0072	LOD	0.036	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.0072	U	0.0072	LOD	0.036	LOQ	mg/Kg	UJ	Surr

Sample ID: **H6-SS01-01** ***Collected:*** **6/12/2016 11:35:00 AM** ***Analysis Type:*** **Reanalysis-2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.020	U	0.020	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.020	U	0.020	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.020	U	0.020	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.020	U	0.020	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.020	U	0.020	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.020	U	0.020	LOD	0.10	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.020	U	0.020	LOD	0.10	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.020	U	0.020	LOD	0.10	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.020	U	0.020	LOD	0.10	LOQ	mg/Kg	UJ	Surr

Sample ID: **H6-SS03-01** ***Collected:*** **6/12/2016 11:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.030	U	0.030	LOD	0.15	LOQ	mg/Kg	UJ	Surr
AROCLOR 1221	0.030	U	0.030	LOD	0.15	LOQ	mg/Kg	UJ	Surr
AROCLOR 1232	0.030	U	0.030	LOD	0.15	LOQ	mg/Kg	UJ	Surr
AROCLOR 1242	0.030	U	0.030	LOD	0.15	LOQ	mg/Kg	UJ	Surr
AROCLOR 1248	0.030	U	0.030	LOD	0.15	LOQ	mg/Kg	UJ	Surr
AROCLOR 1254	0.030	U	0.030	LOD	0.15	LOQ	mg/Kg	UJ	Surr
AROCLOR 1260	0.030	U	0.030	LOD	0.15	LOQ	mg/Kg	UJ	Surr
Aroclor 1262	0.030	U	0.030	LOD	0.15	LOQ	mg/Kg	UJ	Surr
Aroclor 1268	0.030	U	0.030	LOD	0.15	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Soil

Sample ID: H18-SS01-01 **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Dilution-1-BASE/NEUTRAL **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.035		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms, Ms
BENZ(A)ANTHRACENE	0.12		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms, Ms
BENZO(A)PYRENE	0.10		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms, Ms
BENZO(B)FLUORANTHENE	0.14		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms
BENZO(G,H,I)PERYLENE	0.055		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms, Ms, Fd
BENZO(K)FLUORANTHENE	0.065		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms, Ms
CHRYSENE	0.12		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms, Ms
FLUORANTHENE	0.30		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms, Ms
INDENO(1,2,3-CD)PYRENE	0.066		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms, Ms
PHENANTHRENE	0.18		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms, Ms
PYRENE	0.23		0.0072	LOD	0.0072	LOQ	mg/Kg	J	Ms, Ms, Ms

Sample ID: H18-SS01-01 **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0063	Q	0.00072	LOD	0.00072	LOQ	mg/Kg	J	Ms, Ms, Lcs, Fd
2-METHYLNAPHTHALENE	0.0060	Q	0.00072	LOD	0.00072	LOQ	mg/Kg	J	Ms, Ms, Fd
ACENAPHTHENE	0.015	Q	0.00072	LOD	0.00072	LOQ	mg/Kg	J	Ms, Ms
ACENAPHTHYLENE	0.0023	Q	0.00072	LOD	0.00072	LOQ	mg/Kg	J+	Ms
DIBENZO(A,H)ANTHRACENE	0.017		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Ms, Ms
FLUORENE	0.018	Q	0.00072	LOD	0.00072	LOQ	mg/Kg	J	Ms, Ms, Fd
NAPHTHALENE	0.0053		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Ms, Ms, Fd

Sample ID: H18-SS01-01 DUP **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.012	Q	0.00072	LOD	0.00072	LOQ	mg/Kg	J	Lcs, Fd
2-METHYLNAPHTHALENE	0.014	Q	0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.0012		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
FLUORENE	0.031	Q	0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
NAPHTHALENE	0.020		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: H18-SS02-01 **Collected:** 6/12/2016 4:00:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.0058	Q	0.00072	LOD	0.00072	LOQ	mg/Kg	J+	Lcs

Method Category: SVOA

Method: 8270D-MOD **Matrix: Soil**

Sample ID: H18-SS01-01 **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.71	UQ	0.71	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
CARBAZOLE	0.018	J	0.018	LOD	0.17	LOQ	mg/Kg	J	Rl

Sample ID: H18-SS01-01 DUP **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.71	UQ	0.71	LOD	1.1	LOQ	mg/Kg	UJ	Lcs
CARBAZOLE	0.016	J	0.018	LOD	0.17	LOQ	mg/Kg	J	Rl

Sample ID: H18-SS01-02 **Collected:** 6/12/2016 3:45:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.70	UQ	0.70	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: H18-SS02-01 **Collected:** 6/12/2016 4:00:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.71	UQ	0.71	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: H18-SS02-02 **Collected:** 6/12/2016 4:05:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	0.68	UQ	0.68	LOD	1.0	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Soil**

Sample ID: **WDS-SB10-08** ***Collected:*** **6/12/2016 1:50:00 PM** ***Analysis Type:*** **Initial-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRICHLOROBENZENE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
1,2-DICHLOROBENZENE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
1,3-DICHLOROBENZENE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
1,4-DICHLOROBENZENE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
2,4-DINITROTOLUENE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
2,6-DINITROTOLUENE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
2-CHLORONAPHTHALENE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
2-NITROANILINE	0.018	U	0.018	LOD	0.35	LOQ	mg/Kg	UJ	Surr
3,3'-DICHLOROBENZIDINE	0.73	UQX	0.73	LOD	1.1	LOQ	mg/Kg	UJ	Ms, Lcs, Surr
3-NITROANILINE	0.018	U	0.018	LOD	0.35	LOQ	mg/Kg	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	0.092	U	0.092	LOD	0.22	LOQ	mg/Kg	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
4-NITROANILINE	0.092	U	0.092	LOD	0.35	LOQ	mg/Kg	UJ	Surr
BENZYL ALCOHOL	0.018	U	0.018	LOD	0.73	LOQ	mg/Kg	UJ	Surr
bis(2-chloroethoxy) methane	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.037	U	0.037	LOD	0.18	LOQ	mg/Kg	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.018	UYZ	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.037	U	0.037	LOD	0.18	LOQ	mg/Kg	UJ	Surr
Butyl benzyl phthalate	0.037	U	0.037	LOD	0.18	LOQ	mg/Kg	UJ	Surr
CARBAZOLE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
DIBENZOFURAN	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
DIETHYL PHTHALATE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
DIMETHYL PHTHALATE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
DI-N-BUTYL PHTHALATE	0.037	U	0.037	LOD	0.18	LOQ	mg/Kg	UJ	Surr
DI-N-OCTYL PHTHALATE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBENZENE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
HEXACHLOROBUTADIENE	0.018	U	0.018	LOD	0.055	LOQ	mg/Kg	UJ	Surr
HEXACHLOROETHANE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
ISOPHORONE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
NITROBENZENE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
N-NITROSODIMETHYLAMINE	0.018	UY	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr
N-Nitrosodi-n-propylamine	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Soil**

Sample ID: WDS-SB10-08 **Collected:** 6/12/2016 1:50:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIPHENYLAMINE	0.018	U	0.018	LOD	0.18	LOQ	mg/Kg	UJ	Surr

Method Category: VOA

Method: 8260C **Matrix: Soil**

Sample ID: H18-SS01-01 **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial **Dilution:** 1.07

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.096	BYQ	0.0023	LOD	0.012	LOQ	mg/Kg	UJ	Lcs, Mb
BROMOFORM	0.00069	UYQ	0.00069	LOD	0.0012	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00069	UQ	0.00069	LOD	0.0012	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0036	JBYQ	0.0023	LOD	0.0058	LOQ	mg/Kg	UJ	Mb, Fd, Tb

Sample ID: H18-SS01-01 DUP **Collected:** 6/12/2016 3:40:00 PM **Analysis Type:** Initial **Dilution:** 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.062	BYQ	0.0022	LOD	0.011	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
BROMOFORM	0.00065	UYQ	0.00065	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00065	UQ	0.00065	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0022	UBYQ	0.0022	LOD	0.0054	LOQ	mg/Kg	UJ	Fd

Sample ID: H18-SS01-02 **Collected:** 6/12/2016 3:45:00 PM **Analysis Type:** Initial **Dilution:** 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.025	BYQ	0.0020	LOD	0.0098	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
BROMOFORM	0.00059	UYQ	0.00059	LOD	0.00098	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00059	UQ	0.00059	LOD	0.00098	LOQ	mg/Kg	UJ	Lcs

Sample ID: H18-SS02-01 **Collected:** 6/12/2016 4:00:00 PM **Analysis Type:** Initial **Dilution:** 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.048	BYQ	0.0022	LOD	0.011	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **H18-SS02-01** ***Collected:*** **6/12/2016 4:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1.01**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.00065	UYQ	0.00065	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00065	UQ	0.00065	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H18-SS02-02** ***Collected:*** **6/12/2016 4:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1.04**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.033	BYQ	0.0021	LOD	0.011	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
BROMOFORM	0.00064	UYQ	0.00064	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00064	UQ	0.00064	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0032	JBQ	0.0021	LOD	0.0054	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

Sample ID: **TB-SO-061216-02** ***Collected:*** **6/12/2016 8:05:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.0095	JYBQ	0.0020	LOD	0.010	LOQ	mg/Kg	UJ	Lcs, Mb
BROMOFORM	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0012	JYBQ	0.0020	LOD	0.0050	LOQ	mg/Kg	UJ	Lcs, Mb
STYRENE	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB10-08** ***Collected:*** **6/12/2016 1:50:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.77**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.060	BYQ	0.0017	LOD	0.0086	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
BROMOFORM	0.00052	UYQ	0.00052	LOD	0.00086	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00052	UQ	0.00052	LOD	0.00086	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0029	JBQ	0.0017	LOD	0.0043	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME-STAR** ***Matrix:*** **Soil**

Sample ID: **P113-SS02-01** ***Collected:*** **6/12/2016 12:15:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **125.4**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,4-TRIMETHYLBENZENE	0.089	UQ	0.089	LOD	0.15	LOQ	mg/Kg	UJ	Ms, Lcs
NAPHTHALENE	0.089	UZ	0.089	LOD	0.74	LOQ	mg/Kg	UJ	Ms
p-Isopropyltoluene [p-Cymene]	0.089	U	0.089	LOD	0.15	LOQ	mg/Kg	UJ	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK 0616	6/16/2016 9:26:00 AM	ACETONE METHYLENE CHLORIDE	0.011 mg/Kg 0.030 mg/Kg	H18-SS01-01 H18-SS01-01 DUP H18-SS01-02
VOA11B MBLK 0617	6/17/2016 7:48:00 AM	ACETONE METHYLENE CHLORIDE	0.0078 mg/Kg 0.0042 mg/Kg	H18-SS02-01 H18-SS02-02 WDS-SB10-08
VOA11B MBLK3 061	6/15/2016 8:54:00 PM	ACETONE METHYLENE CHLORIDE	0.010 mg/Kg 0.0085 mg/Kg	TB-SO-061216-02

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H18-SS01-01 DUP(Initial)	ACETONE	0.062 mg/Kg	0.062U mg/Kg
H18-SS01-01(Initial)	ACETONE	0.096 mg/Kg	0.096U mg/Kg
H18-SS01-01(Initial)	METHYLENE CHLORIDE	0.0036 mg/Kg	0.0058U mg/Kg
H18-SS01-02(Initial)	ACETONE	0.025 mg/Kg	0.025U mg/Kg
H18-SS02-01(Initial)	ACETONE	0.048 mg/Kg	0.048U mg/Kg
H18-SS02-02(Initial)	ACETONE	0.033 mg/Kg	0.033U mg/Kg
H18-SS02-02(Initial)	METHYLENE CHLORIDE	0.0032 mg/Kg	0.0054U mg/Kg
TB-SO-061216-02(Initial)	ACETONE	0.0095 mg/Kg	0.010U mg/Kg
TB-SO-061216-02(Initial)	METHYLENE CHLORIDE	0.0012 mg/Kg	0.0050U mg/Kg
WDS-SB10-08(Initial)	ACETONE	0.060 mg/Kg	0.060U mg/Kg
WDS-SB10-08(Initial)	METHYLENE CHLORIDE	0.0029 mg/Kg	0.0043U mg/Kg

Surrogate Outlier Report

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H18-SS01-01 DUP (Initial)	DECACHLOROBIPHENYL	56.8	60.00-125.00	All Target Analytes	J- (all detects) UJ (all non-detects)
H6-SS01-01 (Reanalysis-2)	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	17.3 16.3	60.00-125.00 44.00-130.00	All Target Analytes	J-(all detects) UJ(all non-detects)
H6-SS03-01 (Initial)	DECACHLOROBIPHENYL	46.3	60.00-125.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D-MOD
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H18-SS01-01 (Initial)	Terphenyl-d14	48.6	54.00-127.00	No Affected Compounds	
WDS-SB10-08 (Initial)	2-FLUOROBIPHENYL Terphenyl-d14	39.7 39.9	44.00-115.00 54.00-127.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
WDS-SB10-08MS WDS-SB10-08MSD (WDS-SB10-08)	3,3'-DICHLOROBENZIDINE	0	0	22.00-121.00	-	3,3'-DICHLOROBENZIDINE	J- (all detects) UJ (all non-detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H18-SS01-01MS H18-SS01-01MSD (H18-SS01-01)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ACENAPHTHENE BENZO(B)FLUORANTHENE DIBENZO(A,H)ANTHRACENE FLUORENE NAPHTHALENE	139 128 - - - - 124	196 182 248 764 149 301 194	43.00-111.00 39.00-114.00 44.00-111.00 53.00-128.00 50.00-129.00 47.00-114.00 38.00-111.00	33.87 (25.00) 34.9 (25.00) 73.61 (25.00) 46.6 (25.00) 43.15 (25.00) 82.93 (25.00) 43.97 (25.00)	1-METHYLNAPHTHALENE 2-METHYLNAPHTHALENE ACENAPHTHENE BENZO(B)FLUORANTHENE DIBENZO(A,H)ANTHRACENE FLUORENE NAPHTHALENE	J(all detects)
H18-SS01-01MS H18-SS01-01MSD (H18-SS01-01)	ANTHRACENE BENZ(A)ANTHRACENE BENZO(A)PYRENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE CHRYSENE FLUORANTHENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE PYRENE	0.904 10.1 -3.83 -16.1 -83.8 -47.9 -253 5.55 -194 -119	280 733 467 197 211 552 1530 283 1410 1220	50.00-114.00 54.00-122.00 50.00-125.00 49.00-127.00 56.00-123.00 57.00-118.00 55.00-119.00 49.00-130.00 49.00-113.00 55.00-117.00	71.94 (25.00) 60.39 (25.00) 50.17 (25.00) 45.03 (25.00) 57.08 (25.00) 56.51 (25.00) 65.79 (25.00) 45.53 (25.00) 87.26 (25.00) 62.31 (25.00)	ANTHRACENE BENZ(A)ANTHRACENE BENZO(A)PYRENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE CHRYSENE FLUORANTHENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE PYRENE	J(all detects) UJ(all non-detects)
H18-SS01-01MSD (H18-SS01-01)	ACENAPHTHYLENE	-	133	39.00-116.00	-	ACENAPHTHYLENE	J+(all detects)

Method: 8260C-ME-STAR
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P113-SS02-01MS P113-SS02-01MSD (P113-SS02-01)	1,2,4-TRIMETHYLBENZENE NAPHTHALENE p-Isopropyltoluene [p-Cymene]	74 - 70.3	71.6 58.9 69.5	75.00-123.00 62.00-129.00 73.00-127.00	- - -	1,2,4-TRIMETHYLBENZENE NAPHTHALENE p-Isopropyltoluene [p-Cymene]	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40223 (H18-SS01-01 H18-SS01-01 DUP H18-SS01-02 H18-SS02-01 H18-SS02-02 WDS-SB10-08)	3,3'-DICHLOROBENZIDINE	0	-	22.00-121.00	-	3,3'-DICHLOROBENZIDINE	J- (all detects) UJ (all non-detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40258 (H18-SS01-01 H18-SS01-01 DUP H18-SS01-02 H18-SS02-01 H18-SS02-02)	1-METHYLNAPHTHALENE	115	-	43.00-111.00	-	1-METHYLNAPHTHALENE	J+(all detects)

Method: 8270D-SIM-STAR
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
1-LCS-40258 (H18-SS01-01 H18-SS01-01 DUP H18-SS01-02 H18-SS02-01 H18-SS02-02)	ACENAPHTHENE	120	-	44.00-111.00	-	ACENAPHTHENE	J+(all detects)
	ACENAPHTHYLENE	120	-	39.00-116.00	-	ACENAPHTHYLENE	
	ANTHRACENE	116	-	50.00-114.00	-	ANTHRACENE	
	BENZ(A)ANTHRACENE	133	-	54.00-122.00	-	BENZ(A)ANTHRACENE	
	BENZO(B)FLUORANTHENE	148	-	53.00-128.00	-	BENZO(B)FLUORANTHENE	
	CHRYSENE	121	-	57.00-118.00	-	CHRYSENE	
	FLUORANTHENE	122	-	55.00-119.00	-	FLUORANTHENE	
	FLUORENE	118	-	47.00-114.00	-	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	151	-	49.00-130.00	-	INDENO(1,2,3-CD)PYRENE	
	PHENANTHRENE	120	-	49.00-113.00	-	PHENANTHRENE	
	PYRENE	126	-	55.00-117.00	-	PYRENE	

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCSD2 061 (TB-SO-061216-02)	BROMOFORM	-	64	67.00-132.00	-	BROMOFORM	J-(all detects) UJ(all non-detects)
	CIS-1,3-DICHLOROPROPENE	-	70.2	74.00-126.00	-	CIS-1,3-DICHLOROPROPENE	
	STYRENE	-	75	76.00-124.00	-	STYRENE	
VOA11B LCS2 0615 VOA11B LCSD2 061 (TB-SO-061216-02)	1,2,3-TRICHLOROPROPANE	127	-	73.00-125.00	-	1,2,3-TRICHLOROPROPANE	J+(all detects)
	ACETONE	203	201	36.00-164.00	-	ACETONE	
	METHYLENE CHLORIDE	191	168	70.00-128.00	-	METHYLENE CHLORIDE	

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06161 VOA11B LCSD 0616 (H18-SS01-01 H18-SS01-01 DUP H18-SS01-02)	BROMOFORM CHLORODIBROMOMETHANE	64.9 72.3	60 71.2	67.00-132.00 74.00-126.00	- -	BROMOFORM CHLORODIBROMOMETHANE	J-(all detects) UJ(all non-detects)
VOA11B LCS 06161 VOA11B LCSD 0616 (H18-SS01-01 H18-SS01-01 DUP H18-SS01-02)	2-Butanone [MEK] ACETONE	168 273	- 231	51.00-148.00 36.00-164.00	- -	2-Butanone [MEK] ACETONE	J+(all detects)
VOA11B LCS 06171 VOA11B LCSD 0617 (H18-SS02-01 H18-SS02-02 WDS-SB10-08)	BROMOFORM CHLORODIBROMOMETHANE	65.5 -	58.3 70	67.00-132.00 74.00-126.00	- -	BROMOFORM CHLORODIBROMOMETHANE	J-(all detects) UJ(all non-detects)
VOA11B LCS 06171 VOA11B LCSD 0617 (H18-SS02-01 H18-SS02-02 WDS-SB10-08)	ACETONE METHYLENE CHLORIDE	290 170	255 167	36.00-164.00 70.00-128.00	- -	ACETONE METHYLENE CHLORIDE	J+(all detects)

Method: 8260C-ME-STAR
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS5 0617 (P113-SS02-01)	1,2,4-TRIMETHYLBENZENE	74.8	-	75.00-123.00	-	1,2,4-TRIMETHYLBENZENE	J-(all detects) UJ(all non-detects)

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H18-SS01-01 (Dry)	H18-SS01-01 DUP (Dry)			
CADMIUM	0.033	0.18 U	200	50.00	J (all detects)
LEAD	9.2	2.7	109	50.00	UJ (all non-detects)

Method: 8260C
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H18-SS01-01	H18-SS01-01 DUP			
METHYLENE CHLORIDE	0.0036	0.0054 UBYQ	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270D SIM
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H18-SS01-01	H18-SS01-01 DUP			
1-METHYLNAPHTHALENE	0.0063	0.012	62	50.00	J(all detects) UJ(all non-detects)
2-METHYLNAPHTHALENE	0.0060	0.014	80	50.00	
BENZO(G,H,I)PERYLENE	0.055	0.0012	191	50.00	
FLUORENE	0.018	0.031	53	50.00	
NAPHTHALENE	0.0053	0.020	116	50.00	

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-SO-061216-02(Initial)	6/12/2016 8:05:00 AM	ACETONE METHYLENE CHLORIDE	0.0095 mg/Kg 0.0012 mg/Kg	H18-SS01-01 H18-SS01-01 DUP H18-SS01-02 H18-SS02-01 H18-SS02-02 H4-SB02-05 H4-SB03-05 H4-SS01-01 H4-SS02-01 H4-SS03-01 H6-SS01-01 H6-SS02-01 H6-SS03-01 P113-SB01-04 P113-SB01-05 P113-SB02-04 P113-SS02-01 P113-SS03-01 WDS-SB10-08

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H18-SS01-01 DUP(Initial)	ACETONE	0.062 mg/Kg	0.062U mg/Kg
H18-SS01-01(Initial)	METHYLENE CHLORIDE	0.0036 mg/Kg	0.0058U mg/Kg
H18-SS01-02(Initial)	ACETONE	0.025 mg/Kg	0.025U mg/Kg
H18-SS02-01(Initial)	ACETONE	0.048 mg/Kg	0.048U mg/Kg
H18-SS02-02(Initial)	ACETONE	0.033 mg/Kg	0.033U mg/Kg
H18-SS02-02(Initial)	METHYLENE CHLORIDE	0.0032 mg/Kg	0.0054U mg/Kg
WDS-SB10-08(Initial)	ACETONE	0.060 mg/Kg	0.060U mg/Kg
WDS-SB10-08(Initial)	METHYLENE CHLORIDE	0.0029 mg/Kg	0.0043U mg/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H18-SS01-01	CADMIUM	J	0.033	0.17	LOQ	mg/Kg	J (all detects)
H18-SS01-01 DUP	LEAD NICKEL	J J	2.7 3.2	3.6 3.6	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H18-SS01-02	CADMIUM LEAD	J J	0.031 2.3	0.18 3.5	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H18-SS02-01	SILVER	J	0.17	0.70	LOQ	mg/Kg	J (all detects)
H18-SS02-02	ARSENIC LEAD NICKEL	J J J	1.1 1.1 2.2	1.4 3.4 3.4	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
WDS-SB10-08	ARSENIC LEAD	J J	1.1 2.1	1.5 3.7	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

Method: 6010C-STAR

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H4-SB02-05	LEAD	J	3.2	3.7	LOQ	mg/Kg	J (all detects)
H4-SB03-05	LEAD	J	2.8	3.9	LOQ	mg/Kg	J (all detects)
H6-SS02-01	LEAD	J	3.0	4.2	LOQ	mg/Kg	J (all detects)
H6-SS03-01	LEAD	J	7.5	15	LOQ	mg/Kg	J (all detects)
P113-SB01-05	LEAD	J	3.1	3.8	LOQ	mg/Kg	J (all detects)
P113-SB02-04	LEAD	J	2.2	3.8	LOQ	mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H18-SS01-01	THALLIUM	J	0.050	0.14	LOQ	mg/Kg	J (all detects)
H18-SS01-01 DUP	THALLIUM	J	0.035	0.14	LOQ	mg/Kg	J (all detects)
H18-SS01-02	THALLIUM	J	0.041	0.14	LOQ	mg/Kg	J (all detects)
H18-SS02-02	THALLIUM	JG	0.041	0.13	LOQ	mg/Kg	J (all detects)
WDS-SB10-08	THALLIUM	J	0.087	0.15	LOQ	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606467 **Laboratory: RTILABS**

EDD Filename: EDD_1606467_SEDD_2a_v25 **eQAPP Name: Former_Camp_Hero**

Method: 8260C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H18-SS01-01	METHYLENE CHLORIDE	JBYQ	0.0036	0.0058	LOQ	mg/Kg	J (all detects)
H18-SS02-02	METHYLENE CHLORIDE	JBQ	0.0032	0.0054	LOQ	mg/Kg	J (all detects)
TB-SO-061216-02	ACETONE METHYLENE CHLORIDE	JYBQ JYBQ	0.0095 0.0012	0.010 0.0050	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB10-08	METHYLENE CHLORIDE	JBQ	0.0029	0.0043	LOQ	mg/Kg	J (all detects)

Method: 8270D-MOD

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H18-SS01-01	CARBAZOLE	J	0.018	0.17	LOQ	mg/Kg	J (all detects)
H18-SS01-01 DUP	CARBAZOLE	J	0.016	0.17	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606506		
Date(s) of Collection:	June 13th, 2016		
Number/Type Samples & Analyses:	12 soil samples for a project-specific list of PAHs, PCBs, and metals		
Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 30th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606506. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✓ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: 034-SB01-02 **Collected:** 6/13/2016 12:50:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.091	J	0.042	LOD	0.21	LOQ	mg/Kg	J	Rl

Sample ID: 034-SS01-01 **Collected:** 6/13/2016 12:45:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.17	J	0.045	LOD	0.22	LOQ	mg/Kg	J	Rl
SILVER	0.28	J	0.22	LOD	0.90	LOQ	mg/Kg	J	Rl

Sample ID: 034-SS02-01 **Collected:** 6/13/2016 12:40:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.3	J	0.88	LOD	1.8	LOQ	mg/Kg	J	Rl
SILVER	0.20	J	0.22	LOD	0.88	LOQ	mg/Kg	J	Rl

Sample ID: 034-SS02-02 **Collected:** 6/13/2016 12:45:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.019	J	0.041	LOD	0.20	LOQ	mg/Kg	J	Rl, Fd
CADMIUM	0.041	U	0.041	LOD	0.20	LOQ	mg/Kg	UJ	Fd

Sample ID: 034-SS02-02 DUP **Collected:** 6/13/2016 12:45:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.5	J	0.80	LOD	1.6	LOQ	mg/Kg	J	Rl
BERYLLIUM	0.040	U	0.040	LOD	0.20	LOQ	mg/Kg	UJ	Fd
CADMIUM	0.029	J	0.040	LOD	0.20	LOQ	mg/Kg	J	Rl, Fd

Sample ID: 034-SS03-01 **Collected:** 6/13/2016 12:20:00 PM **Analysis Type:** Dilution-1 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	11000		35	LOD	100	LOQ	mg/Kg	J	Ms, Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6010C** ***Matrix:*** **Soil**

Sample ID: **034-SS03-01** ***Collected:*** **6/13/2016 12:20:00 PM** ***Analysis Type:*** **Dilution-2** ***Dilution:*** **100**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	8600		140	LOD	350	LOQ	mg/Kg	J	Ms, Ms

Sample ID: **034-SS03-01** ***Collected:*** **6/13/2016 12:20:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.7	X	0.70	LOD	1.4	LOQ	mg/Kg	J-	Ms
BARIUM	16	X	3.5	LOD	7.0	LOQ	mg/Kg	J+	Ms
CADMIUM	0.032	J	0.035	LOD	0.17	LOQ	mg/Kg	J	RI
CALCIUM	660	X	7.0	LOD	35	LOQ	mg/Kg	J+	Ms
CHROMIUM	12	X	0.28	LOD	0.35	LOQ	mg/Kg	J-	Ms
COBALT	2.6	GX	0.17	LOD	0.70	LOQ	mg/Kg	J-	Ms
MAGNESIUM	960	X	3.5	LOD	35	LOQ	mg/Kg	J+	Ms
MANGANESE	140	X	0.17	LOD	0.70	LOQ	mg/Kg	J+	Ms
POTASSIUM	420	X	7.0	LOD	14	LOQ	mg/Kg	J+	Ms
SELENIUM	1.0	UX	1.0	LOD	1.4	LOQ	mg/Kg	UJ	Ms
VANADIUM	19	X	0.70	LOD	1.7	LOQ	mg/Kg	J-	Ms

Sample ID: **034-SS03-02** ***Collected:*** **6/13/2016 12:30:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	1.7	J	0.71	LOD	3.5	LOQ	mg/Kg	J	RI
NICKEL	3.4	J	0.71	LOD	3.5	LOQ	mg/Kg	J	RI

Sample ID: **034-SS04-01** ***Collected:*** **6/13/2016 12:20:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.020	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
CADMIUM	0.031	J	0.036	LOD	0.18	LOQ	mg/Kg	J	RI
LEAD	2.7	J	0.71	LOD	3.6	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: 034-SS04-02 **Collected:** 6/13/2016 12:25:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	2.4	J	0.71	LOD	3.6	LOQ	mg/Kg	J	RI

Sample ID: 034-SS04-02 DUP **Collected:** 6/13/2016 12:25:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	2.2	J	0.70	LOD	3.5	LOQ	mg/Kg	J	RI

Sample ID: 034-SS05-01 **Collected:** 6/13/2016 12:10:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.73	J	0.45	LOD	0.90	LOQ	mg/Kg	J	RI
ARSENIC	0.85	J	0.90	LOD	1.8	LOQ	mg/Kg	J	RI
CADMIUM	0.10	J	0.045	LOD	0.22	LOQ	mg/Kg	J	RI
COBALT	0.87	J	0.22	LOD	0.90	LOQ	mg/Kg	J	RI
NICKEL	3.8	J	0.90	LOD	4.5	LOQ	mg/Kg	J	RI

Sample ID: 034-SS05-02 **Collected:** 6/13/2016 12:10:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3.9	J	0.79	LOD	4.0	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: 034-SB01-02 **Collected:** 6/13/2016 12:50:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.058	J	0.044	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: 034-SS01-01 **Collected:** 6/13/2016 12:45:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.086	JG	0.047	LOD	0.19	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix:** Soil

Sample ID: 034-SS02-01 **Collected:** 6/13/2016 12:40:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.095	J	0.046	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: 034-SS02-02 **Collected:** 6/13/2016 12:45:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.068	J	0.040	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: 034-SS02-02 DUP **Collected:** 6/13/2016 12:45:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.090	J	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: 034-SS03-01 **Collected:** 6/13/2016 12:20:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.10	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: 034-SS03-02 **Collected:** 6/13/2016 12:30:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.035	J	0.034	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: 034-SS04-02 **Collected:** 6/13/2016 12:25:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.10	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

Sample ID: 034-SS04-02 DUP **Collected:** 6/13/2016 12:25:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.086	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: 034-SS05-01 **Collected:** 6/13/2016 12:10:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.046	J	0.045	LOD	0.18	LOQ	mg/Kg	J	RI

Sample ID: 034-SS05-02 **Collected:** 6/13/2016 12:10:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.067	J	0.040	LOD	0.16	LOQ	mg/Kg	J	RI

Method Category: SVOA

Method: 8270D SIM **Matrix: Soil**

Sample ID: 034-SS02-01 **Collected:** 6/13/2016 12:40:00 PM **Analysis Type:** Dilution-1-BASE/NEUTRAL **Dilution:** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.12	H	0.019	LOD	0.019	LOQ	mg/Kg	J-	EtoA
BENZ(A)ANTHRACENE	0.57	H	0.019	LOD	0.019	LOQ	mg/Kg	J-	EtoA
BENZO(A)PYRENE	0.45	H	0.019	LOD	0.019	LOQ	mg/Kg	J-	EtoA
BENZO(B)FLUORANTHENE	0.64	H	0.019	LOD	0.019	LOQ	mg/Kg	J-	EtoA
BENZO(K)FLUORANTHENE	0.23	H	0.019	LOD	0.019	LOQ	mg/Kg	J-	EtoA
CHRYSENE	0.44	H	0.019	LOD	0.019	LOQ	mg/Kg	J-	EtoA
DIBENZO(A,H)ANTHRACENE	0.024	H	0.019	LOD	0.019	LOQ	mg/Kg	J-	EtoA
INDENO(1,2,3-CD)PYRENE	0.27	H	0.019	LOD	0.019	LOQ	mg/Kg	J-	EtoA
PHENANTHRENE	0.48	H	0.019	LOD	0.019	LOQ	mg/Kg	J-	EtoA
PYRENE	0.90	H	0.019	LOD	0.019	LOQ	mg/Kg	J-	EtoA

Sample ID: 034-SS02-01 **Collected:** 6/13/2016 12:40:00 PM **Analysis Type:** Dilution-2-BASE/NEUTRAL **Dilution:** 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	1.1	H	0.19	LOD	0.19	LOQ	mg/Kg	J-	EtoA

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Soil

Sample ID: 034-SS02-02 **Collected:** 6/13/2016 12:45:00 PM **Analysis Type:** Dilution-1-BASE/ NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.054	H	0.0025	LOD	0.0025	LOQ	mg/Kg	J	EtoA, Fd
FLUORANTHENE	0.072	H	0.0025	LOD	0.0025	LOQ	mg/Kg	J	EtoA, Fd
PYRENE	0.060	H	0.0025	LOD	0.0025	LOQ	mg/Kg	J	EtoA, Fd

Sample ID: 034-SS02-02 **Collected:** 6/13/2016 12:45:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.0011		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
ACENAPHTHENE	0.0015		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
ACENAPHTHYLENE	0.0012		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
ANTHRACENE	0.0038		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
BENZ(A)ANTHRACENE	0.031	Y	0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
BENZO(A)PYRENE	0.024		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.012		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
BENZO(K)FLUORANTHENE	0.011		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
CHRYSENE	0.019		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
DIBENZO(A,H)ANTHRACENE	0.0046		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
FLUORENE	0.0016		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.010		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
NAPHTHALENE	0.0011		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd
PHENANTHRENE	0.023		0.00084	LOD	0.00084	LOQ	mg/Kg	J	Fd

Sample ID: 034-SS02-02 DUP **Collected:** 6/13/2016 12:45:00 PM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.00081	U	0.00081	LOD	0.00081	LOQ	mg/Kg	UJ	Fd
ACENAPHTHENE	0.00081	U	0.00081	LOD	0.00081	LOQ	mg/Kg	UJ	Fd
ACENAPHTHYLENE	0.00081	U	0.00081	LOD	0.00081	LOQ	mg/Kg	UJ	Fd
ANTHRACENE	0.00081	U	0.00081	LOD	0.00081	LOQ	mg/Kg	UJ	Fd
BENZ(A)ANTHRACENE	0.0073	Y	0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd
BENZO(A)PYRENE	0.0061		0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd
BENZO(B)FLUORANTHENE	0.012		0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Soil

Sample ID: 034-SS02-02 DUP **Collected:** 6/13/2016 12:45:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.0030		0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd
BENZO(K)FLUORANTHENE	0.0023		0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd
CHRYSENE	0.0043		0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd
DIBENZO(A,H)ANTHRACENE	0.00090		0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd
FLUORANTHENE	0.0098		0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd
FLUORENE	0.00081	U	0.00081	LOD	0.00081	LOQ	mg/Kg	UJ	Fd
INDENO(1,2,3-CD)PYRENE	0.0025		0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd
NAPHTHALENE	0.00081	U	0.00081	LOD	0.00081	LOQ	mg/Kg	UJ	Fd
PHENANTHRENE	0.0049		0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd
PYRENE	0.0099		0.00081	LOD	0.00081	LOQ	mg/Kg	J	Fd

Sample ID: 034-SS03-01 **Collected:** 6/13/2016 12:20:00 PM **Analysis Type:** Dilution-1-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZ(A)ANTHRACENE	0.058		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Ms
BENZO(B)FLUORANTHENE	0.076		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	Ms
BENZO(K)FLUORANTHENE	0.025		0.0022	LOD	0.0022	LOQ	mg/Kg	J-	Ms
FLUORANTHENE	0.13	J	0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Ms
PHENANTHRENE	0.052		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Ms
PYRENE	0.10		0.0022	LOD	0.0022	LOQ	mg/Kg	J+	Ms

Sample ID: 034-SS04-02 **Collected:** 6/13/2016 12:25:00 PM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.0013		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
BENZ(A)ANTHRACENE	0.0071	Y	0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
BENZO(A)PYRENE	0.0038		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
BENZO(B)FLUORANTHENE	0.0077		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.0019		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
CHRYSENE	0.0035		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
FLUORANTHENE	0.0091		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.0016		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D SIM** ***Matrix:*** **Soil**

Sample ID: **034-SS04-02** ***Collected:*** **6/13/2016 12:25:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	0.0051		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
PYRENE	0.0089		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd

Sample ID: **034-SS04-02 DUP** ***Collected:*** **6/13/2016 12:25:00 PM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	Fd
BENZ(A)ANTHRACENE	0.0011	Y	0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
BENZO(A)PYRENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	Fd
BENZO(B)FLUORANTHENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	Fd
BENZO(G,H,I)PERYLENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	Fd
CHRYSENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	Fd
FLUORANTHENE	0.0017		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.00072	U	0.00072	LOD	0.00072	LOQ	mg/Kg	UJ	Fd
PHENANTHRENE	0.0015		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd
PYRENE	0.0016		0.00072	LOD	0.00072	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
EtoA	Extraction to Analysis Estimation
Fd	Field Duplicate Precision
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Upper Estimation
RI	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	A
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	A
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM **Preparation Method: 3550B**

Matrix: Soil

Sample ID	Type	Actual	Criteria	Units	Flag
034-SS02-01 (Dilution-1)	Extraction To Analysis	42.00	40.00	DAYS	J- (all detects)
034-SS02-01 (Dilution-2)		42.00	40.00	DAYS	UJ (all non-detects)
034-SS02-02 (Dilution-1)		42.00	40.00	DAYS	

Project Name and Number: - USACE Project:

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	034-SS02-02 (Dry)	034-SS02-02 DUP (Dry)			
BERYLLIUM	0.019	0.20 U	200	50.00	J (all detects)
CADMIUM	0.20 U	0.029	200	50.00	UJ (all non-detects)

Method: 8270D SIM
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	034-SS04-02	034-SS04-02 DUP			
ANTHRACENE	0.0013	0.00072 U	200	50.00	
BENZ(A)ANTHRACENE	0.0071	0.0011	146	50.00	
BENZO(A)PYRENE	0.0038	0.00072 U	200	50.00	
BENZO(B)FLUORANTHENE	0.0077	0.00072 U	200	50.00	
BENZO(G,H,I)PERYLENE	0.0019	0.00072 U	200	50.00	J(all detects)
CHRYSENE	0.0035	0.00072 U	200	50.00	UJ(all non-detects)
FLUORANTHENE	0.0091	0.0017	137	50.00	
INDENO(1,2,3-CD)PYRENE	0.0016	0.00072 U	200	50.00	
PHENANTHRENE	0.0051	0.0015	109	50.00	
PYRENE	0.0089	0.0016	139	50.00	

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	034-SS02-02	034-SS02-02 DUP			
2-METHYLNAPHTHALENE	0.0011	0.00081 U	200	50.00	
ACENAPHTHENE	0.0015	0.00081 U	200	50.00	
ACENAPHTHYLENE	0.0012	0.00081 U	200	50.00	
ANTHRACENE	0.0038	0.00081 U	200	50.00	
BENZ(A)ANTHRACENE	0.031	0.0073	124	50.00	
BENZO(A)PYRENE	0.024	0.0061	119	50.00	
BENZO(B)FLUORANTHENE	0.054	0.012	127	50.00	
BENZO(G,H,I)PERYLENE	0.012	0.0030	120	50.00	
BENZO(K)FLUORANTHENE	0.011	0.0023	131	50.00	J(all detects)
CHRYSENE	0.019	0.0043	126	50.00	UJ(all non-detects)
DIBENZO(A,H)ANTHRACENE	0.0046	0.00090	135	50.00	
FLUORANTHENE	0.072	0.0098	152	50.00	
FLUORENE	0.0016	0.00081 U	200	50.00	
INDENO(1,2,3-CD)PYRENE	0.010	0.0025	120	50.00	
NAPHTHALENE	0.0011	0.00081 U	200	50.00	
PHENANTHRENE	0.023	0.0049	130	50.00	
PYRENE	0.060	0.0099	143	50.00	

Project Name and Number: - USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606506 **Laboratory: RTILABS**

EDD Filename: EDD_1606506_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
034-SB01-02	BERYLLIUM	J	0.091	0.21	LOQ	mg/Kg	J (all detects)
034-SS01-01	BERYLLIUM SILVER	J J	0.17 0.28	0.22 0.90	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
034-SS02-01	ARSENIC SILVER	J J	1.3 0.20	1.8 0.88	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
034-SS02-02	BERYLLIUM	J	0.019	0.20	LOQ	mg/Kg	J (all detects)
034-SS02-02 DUP	ARSENIC CADMIUM	J J	1.5 0.029	1.6 0.20	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
034-SS03-01	CADMIUM	J	0.032	0.17	LOQ	mg/Kg	J (all detects)
034-SS03-02	LEAD NICKEL	J J	1.7 3.4	3.5 3.5	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
034-SS04-01	BERYLLIUM CADMIUM LEAD	J J J	0.020 0.031 2.7	0.18 0.18 3.6	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
034-SS04-02	LEAD	J	2.4	3.6	LOQ	mg/Kg	J (all detects)
034-SS04-02 DUP	LEAD	J	2.2	3.5	LOQ	mg/Kg	J (all detects)
034-SS05-01	ANTIMONY ARSENIC CADMIUM COBALT NICKEL	J J J J J	0.73 0.85 0.10 0.87 3.8	0.90 1.8 0.22 0.90 4.5	LOQ LOQ LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	J (all detects)
034-SS05-02	LEAD	J	3.9	4.0	LOQ	mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
034-SB01-02	THALLIUM	J	0.058	0.18	LOQ	mg/Kg	J (all detects)
034-SS01-01	THALLIUM	JG	0.086	0.19	LOQ	mg/Kg	J (all detects)
034-SS02-01	THALLIUM	J	0.095	0.18	LOQ	mg/Kg	J (all detects)
034-SS02-02	THALLIUM	J	0.068	0.16	LOQ	mg/Kg	J (all detects)
034-SS02-02 DUP	THALLIUM	J	0.090	0.16	LOQ	mg/Kg	J (all detects)
034-SS03-01	THALLIUM	J	0.10	0.14	LOQ	mg/Kg	J (all detects)
034-SS03-02	THALLIUM	J	0.035	0.14	LOQ	mg/Kg	J (all detects)
034-SS04-02	THALLIUM	J	0.10	0.14	LOQ	mg/Kg	J (all detects)
034-SS04-02 DUP	THALLIUM	J	0.086	0.14	LOQ	mg/Kg	J (all detects)
034-SS05-01	THALLIUM	J	0.046	0.18	LOQ	mg/Kg	J (all detects)
034-SS05-02	THALLIUM	J	0.067	0.16	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606525		
Date(s) of Collection:	June 13th, 2016		
Number/Type Samples & Analyses:	18 soil samples and 1 trip blank for a project-specific list of VOCs and STAR VOCs		
Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 31st, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606525. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **H16-SB01-05** ***Collected:*** **6/13/2016 10:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.97**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.014	UQ	0.014	LOD	0.028	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0028	U	0.0028	LOD	0.0071	LOQ	mg/Kg	UJ	Fd
ACETONE	0.070	YQ	0.0028	LOD	0.014	LOQ	mg/Kg	UJ	Lcs, Lcs, Fd, Tb

Sample ID: **H16-SB01-05 DUP** ***Collected:*** **6/13/2016 10:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.97**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.013	UQ	0.013	LOD	0.027	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.021	YQ	0.0027	LOD	0.013	LOQ	mg/Kg	UJ	Lcs, Lcs, Mb, Fd, Tb
METHYLENE CHLORIDE	0.0086		0.0027	LOD	0.0067	LOQ	mg/Kg	UJ	Fd, Tb

Sample ID: **H16-SS01-01** ***Collected:*** **6/13/2016 10:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1.08**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0026	UQY	0.0026	LOD	0.0065	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.013	UQ	0.013	LOD	0.026	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.24	BYQ	0.0026	LOD	0.013	LOQ	mg/Kg	UJ	Lcs, Lcs, Tb
BROMOFORM	0.00078	UYQ	0.00078	LOD	0.0013	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00078	UYQ	0.00078	LOD	0.0013	LOQ	mg/Kg	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.00078	UQ	0.00078	LOD	0.0013	LOQ	mg/Kg	UJ	Lcs

Sample ID: **TB-SO-061316-01** ***Collected:*** **6/13/2016 8:00:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.024	YQB	0.0020	LOD	0.010	LOQ	mg/Kg	UJ	Lcs, Mb
BROMOFORM	0.00060	UYQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0084	QB	0.0020	LOD	0.0050	LOQ	mg/Kg	UJ	Lcs, Mb

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **WDS-SB09-06** ***Collected:*** **6/13/2016 1:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.89**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.024	BYQ	0.0020	LOD	0.010	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
BROMOFORM	0.00060	UQY	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB11-08** ***Collected:*** **6/13/2016 10:40:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.77**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.029	BYQ	0.0017	LOD	0.0085	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
BROMOFORM	0.00051	UQY	0.00051	LOD	0.00085	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00051	UQ	0.00051	LOD	0.00085	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB12-05** ***Collected:*** **6/13/2016 8:35:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.91**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.0070	J	0.010	LOD	0.020	LOQ	mg/Kg	J	RI
ACETONE	0.10	BYQ	0.0020	LOD	0.010	LOQ	mg/Kg	UJ	Lcs, Tb
BROMOFORM	0.00061	UQY	0.00061	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00061	UQ	0.00061	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0011	JBQ	0.0020	LOD	0.0051	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

Sample ID: **WDS-SB13-05** ***Collected:*** **6/13/2016 8:20:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.99**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.087	BYQ	0.0022	LOD	0.011	LOQ	mg/Kg	UJ	Lcs, Tb
BROMOFORM	0.00067	UQY	0.00067	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00067	UQ	0.00067	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0037	JBQ	0.0022	LOD	0.0056	LOQ	mg/Kg	UJ	Lcs, Mb, Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **H5-SS01-01** ***Collected:*** **6/13/2016 9:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **188.2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.28	UQ	0.28	LOD	0.47	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H5-SS01-02** ***Collected:*** **6/13/2016 9:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **95.4**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.063	UQ	0.063	LOD	0.11	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H5-SS02-01** ***Collected:*** **6/13/2016 9:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **188.7**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.83	J	0.92	LOD	2.3	LOQ	mg/Kg	J	RI
BROMOFORM	0.28	UQ	0.28	LOD	0.46	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H5-SS02-01 DUP** ***Collected:*** **6/13/2016 9:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **221.6**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.78	J	1.1	LOD	2.7	LOQ	mg/Kg	J	RI
BROMOFORM	0.33	UQ	0.33	LOD	0.55	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H5-SS02-02** ***Collected:*** **6/13/2016 9:20:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **175.7**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.17	UQ	0.17	LOD	0.29	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB08-05** ***Collected:*** **6/13/2016 1:20:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **96.4**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.065	UQ	0.065	LOD	0.11	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-STAR** ***Matrix:*** **Soil**

Sample ID: **MP-SB02-11** ***Collected:*** **6/13/2016 11:30:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.95**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.00062	UQ	0.00062	LOD	0.0052	LOQ	mg/Kg	UJ	Lcs

Sample ID: **MP-SS03-01** ***Collected:*** **6/13/2016 11:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1.31**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.00095	UQ	0.00095	LOD	0.0079	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Rl	Reporting Limit Trace Value
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK 0617	6/17/2016 7:48:00 AM	ACETONE METHYLENE CHLORIDE	0.0078 mg/Kg 0.0042 mg/Kg	TB-SO-061316-01 WDS-SB09-06 WDS-SB11-08 WDS-SB12-05 WDS-SB13-05
VOA11B MBLK 0618	6/18/2016 11:50:00 PM	ACETONE METHYLENE CHLORIDE TOLUENE	0.015 mg/Kg 0.0045 mg/Kg 0.00058 mg/Kg	H16-SS01-01
VOA11B MBLK 0621	6/21/2016 10:00:00 AM	ACETONE	0.0049 mg/Kg	H16-SB01-05 H16-SB01-05 DUP

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H16-SB01-05 DUP(Initial)	ACETONE	0.021 mg/Kg	0.021U mg/Kg
TB-SO-061316-01(Initial)	ACETONE	0.024 mg/Kg	0.024U mg/Kg
TB-SO-061316-01(Initial)	METHYLENE CHLORIDE	0.0084 mg/Kg	0.0084U mg/Kg
WDS-SB09-06(Initial)	ACETONE	0.024 mg/Kg	0.024U mg/Kg
WDS-SB11-08(Initial)	ACETONE	0.029 mg/Kg	0.029U mg/Kg
WDS-SB12-05(Initial)	METHYLENE CHLORIDE	0.0011 mg/Kg	0.0051U mg/Kg
WDS-SB13-05(Initial)	METHYLENE CHLORIDE	0.0037 mg/Kg	0.0056U mg/Kg

Method: **8260C-STAR**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK5 0618	6/18/2016 11:50:00 PM	TOLUENE	0.00058 mg/Kg	MP-SB02-11 MP-SS03-01

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06171 VOA11B LCSD 0617 (TB-SO-061316-01 WDS-SB09-06 WDS-SB11-08 WDS-SB12-05 WDS-SB13-05)	BROMOFORM CHLORODIBROMOMETHANE	65.5 -	58.3 70	67.00-132.00 74.00-126.00	- -	BROMOFORM CHLORODIBROMOMETHANE	J- (all detects) UJ (all non-detects)
VOA11B LCS 06171 VOA11B LCSD 0617 (TB-SO-061316-01 WDS-SB09-06 WDS-SB11-08 WDS-SB12-05 WDS-SB13-05)	ACETONE METHYLENE CHLORIDE	290 170	255 167	36.00-164.00 70.00-128.00	- -	ACETONE METHYLENE CHLORIDE	J+(all detects)
VOA11B LCS 06181 VOA11B LCSD 0618 (H16-SS01-01)	2-Butanone [MEK] ACETONE	- 355	213 244	51.00-148.00 36.00-164.00	46.01 (25.00) 37.22 (25.00)	2-Butanone [MEK] ACETONE	J(all detects) UJ(all non-detects)
VOA11B LCS 06181 VOA11B LCSD 0618 (H16-SS01-01)	1,2-DIBROMO-3-CHLOROPROPAN BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE	59 54.8 66.8 -	- 52.1 65.8 73.9	61.00-132.00 67.00-132.00 74.00-126.00 74.00-126.00	- - - -	1,2-DIBROMO-3-CHLOROPROPA BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE	J-(all detects) UJ(all non-detects)
VOA11B LCSD 0618 (H16-SS01-01)	METHYLENE CHLORIDE	-	145	70.00-128.00	-	METHYLENE CHLORIDE	J+(all detects)

Method: 8260C-ME
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06201 (H5-SS01-01 H5-SS01-02 H5-SS02-01 H5-SS02-01 DUP H5-SS02-02 WDS-SB08-05)	BROMOFORM	65.5	-	67.00-132.00	-	BROMOFORM	J-(all detects) UJ(all non-detects)

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06211 VOA11B LCSD 0621 (H16-SB01-05 H16-SB01-05 DUP)	2-Butanone [MEK] ACETONE	160 247	- 178	51.00-148.00 36.00-164.00	36.29 (25.00) 32.19 (25.00)	2-Butanone [MEK] ACETONE	J(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Method: **8260C-STAR**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
VOA11B LCSD5 0618 (MP-SB02-11 MP-SS03-01)	NAPHTHALENE	-	61.7	62.00-129.00	-	NAPHTHALENE	J-(all detects) UJ(all non-detects)

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H16-SB01-05	H16-SB01-05 DUP			
ACETONE	0.070	0.021	108	50.00	J (all detects)
METHYLENE CHLORIDE	0.0071 U	0.0086	200	50.00	UJ (all non-detects)

Project Name and Number: - USACE Project: Camp Hero

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-SO-061316-01(Initial)	6/13/2016 8:00:00 AM	ACETONE METHYLENE CHLORIDE	0.024 mg/Kg 0.0084 mg/Kg	H16-SB01-05 H16-SB01-05 DUP H16-SS01-01 H5-SS01-01 H5-SS01-02 H5-SS02-01 H5-SS02-01 DUP H5-SS02-02 MP-SB02-11 MP-SB03-09 MP-SS02-01 MP-SS02-01 DUP MP-SS03-01 WDS-SB08-05 WDS-SB09-06 WDS-SB11-08 WDS-SB12-05 WDS-SB13-05

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H16-SB01-05 DUP(Initial)	ACETONE	0.021 mg/Kg	0.021U mg/Kg
H16-SB01-05 DUP(Initial)	METHYLENE CHLORIDE	0.0086 mg/Kg	0.0086U mg/Kg
H16-SB01-05(Initial)	ACETONE	0.070 mg/Kg	0.070U mg/Kg
H16-SS01-01(Initial)	ACETONE	0.24 mg/Kg	0.24U mg/Kg
WDS-SB09-06(Initial)	ACETONE	0.024 mg/Kg	0.024U mg/Kg
WDS-SB11-08(Initial)	ACETONE	0.029 mg/Kg	0.029U mg/Kg
WDS-SB12-05(Initial)	ACETONE	0.10 mg/Kg	0.10U mg/Kg
WDS-SB12-05(Initial)	METHYLENE CHLORIDE	0.0011 mg/Kg	0.0051U mg/Kg
WDS-SB13-05(Initial)	ACETONE	0.087 mg/Kg	0.087U mg/Kg
WDS-SB13-05(Initial)	METHYLENE CHLORIDE	0.0037 mg/Kg	0.0056U mg/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: 1606525 **Laboratory: RTILABS**

EDD Filename: EDD_1606525_SEDD_2a_v19 **eQAPP Name: Former_Camp_Hero**

Method: 8260C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
WDS-SB12-05	2-Butanone [MEK] METHYLENE CHLORIDE	J JBQ	0.0070 0.0011	0.020 0.0051	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB13-05	METHYLENE CHLORIDE	JBQ	0.0037	0.0056	LOQ	mg/Kg	J (all detects)

Method: 8260C-ME

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H5-SS02-01	ACETONE	J	0.83	2.3	LOQ	mg/Kg	J (all detects)
H5-SS02-01 DUP	ACETONE	J	0.78	2.7	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606529		
Date(s) of Collection:	June 14th, 2016		
Number/Type Samples & Analyses:	4 groundwater samples and one trip blank sample for a project-specific list of VOCs and SVOCs		
Senior Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 31st, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606529. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016*

Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

NA Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

NA Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

Sample AST35-SB04-GW was analyzed twice for SVOCs. The initial run had 3 surrogates that exceeded the control limit. The lab re-ran the sample but it was outside hold time. The initial results were used.

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR. ADR Discrepancy reports are included in Attachment B.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Water

Sample ID: AST35-SB03-GW **Collected:** 6/14/2016 10:55:00 AM **Analysis Type:** Dilution-1/TOT-BASE/ NEUTRAL **Dilution:** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	4.7		0.96	LOD	0.96	LOQ	ug/L	J	Fd
BENZ(A)ANTHRACENE	1.1		0.96	LOD	0.96	LOQ	ug/L	J	Fd
FLUORANTHENE	3.1		0.96	LOD	0.96	LOQ	ug/L	J	Fd
FLUORENE	23		0.96	LOD	0.96	LOQ	ug/L	J	Fd
PYRENE	3.7		0.96	LOD	0.96	LOQ	ug/L	J	Fd

Sample ID: AST35-SB03-GW **Collected:** 6/14/2016 10:55:00 AM **Analysis Type:** Dilution-2/TOT-BASE/ NEUTRAL **Dilution:** 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	140		3.8	LOD	3.8	LOQ	ug/L	J	Fd
ACENAPHTHENE	21		3.8	LOD	3.8	LOQ	ug/L	J	Fd
ANTHRACENE	12		3.8	LOD	3.8	LOQ	ug/L	J	Fd
NAPHTHALENE	53		3.8	LOD	3.8	LOQ	ug/L	J	Fd
PHENANTHRENE	56		3.8	LOD	3.8	LOQ	ug/L	J	Fd

Sample ID: AST35-SB03-GW **Collected:** 6/14/2016 10:55:00 AM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Fd
BENZO(A)PYRENE	0.44		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
BENZO(B)FLUORANTHENE	0.78		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
BENZO(G,H,I)PERYLENE	0.17		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
BENZO(K)FLUORANTHENE	0.23		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
CHRYSENE	0.72		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
DIBENZO(A,H)ANTHRACENE	0.089		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd
INDENO(1,2,3-CD)PYRENE	0.17		0.019	LOD	0.019	LOQ	ug/L	J	Surr, Fd

Sample ID: AST35-SB03-GW DUP **Collected:** 6/14/2016 10:55:00 AM **Analysis Type:** Dilution-1/TOT-BASE/ NEUTRAL **Dilution:** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	48		1.1	LOD	1.1	LOQ	ug/L	J	Fd
2-METHYLNAPHTHALENE	38		1.1	LOD	1.1	LOQ	ug/L	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Water

Sample ID: AST35-SB03-GW DUP **Collected:** 6/14/2016 10:55:00 AM **Analysis Type:** Dilution-1/TOT-BASE/NEUTRAL **Dilution:** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	3.2		1.1	LOD	1.1	LOQ	ug/L	J	Fd
FLUORENE	2.6		1.1	LOD	1.1	LOQ	ug/L	J	Fd
NAPHTHALENE	34		1.1	LOD	1.1	LOQ	ug/L	J	Fd
PHENANTHRENE	5.0		1.1	LOD	1.1	LOQ	ug/L	J	Fd

Sample ID: AST35-SB03-GW DUP **Collected:** 6/14/2016 10:55:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.40		0.023	LOD	0.023	LOQ	ug/L	J	Fd
ANTHRACENE	0.44		0.023	LOD	0.023	LOQ	ug/L	J	Fd
BENZ(A)ANTHRACENE	0.023	U	0.023	LOD	0.023	LOQ	ug/L	UJ	Fd
BENZO(A)PYRENE	0.023	U	0.023	LOD	0.023	LOQ	ug/L	UJ	Fd
BENZO(B)FLUORANTHENE	0.023	U	0.023	LOD	0.023	LOQ	ug/L	UJ	Fd
BENZO(G,H,I)PERYLENE	0.023	U	0.023	LOD	0.023	LOQ	ug/L	UJ	Fd
BENZO(K)FLUORANTHENE	0.023	U	0.023	LOD	0.023	LOQ	ug/L	UJ	Fd
CHRYSENE	0.023	U	0.023	LOD	0.023	LOQ	ug/L	UJ	Fd
DIBENZO(A,H)ANTHRACENE	0.023	U	0.023	LOD	0.023	LOQ	ug/L	UJ	Fd
FLUORANTHENE	0.062		0.023	LOD	0.023	LOQ	ug/L	J	Fd
INDENO(1,2,3-CD)PYRENE	0.023	U	0.023	LOD	0.023	LOQ	ug/L	UJ	Fd
PYRENE	0.10		0.023	LOD	0.023	LOQ	ug/L	J	Fd

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: AST35-SB02-GW **Collected:** 6/14/2016 10:05:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	2.4	UYQZ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs, Lcs
PHENOL	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **AST35-SB02-GW** ***Collected:*** **6/14/2016 10:05:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL)ETHER	2.4	UYZ	2.4	LOD	4.7	LOQ	ug/L	UJ	Lcs
N-NITROSODIMETHYLAMINE	0.94	UYQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: **AST35-SB03-GW** ***Collected:*** **6/14/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	2.4	UYQZ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs, Lcs
PHENOL	0.94	UQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: **AST35-SB03-GW** ***Collected:*** **6/14/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL)ETHER	2.4	UYZ	2.4	LOD	4.7	LOQ	ug/L	UJ	Lcs
CARBAZOLE	1.6	J	0.94	LOD	4.7	LOQ	ug/L	J	RI
N-NITROSODIMETHYLAMINE	0.94	UYQ	0.94	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: **AST35-SB03-GW DUP** ***Collected:*** **6/14/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	2.4	UYQZ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs, Lcs
PHENOL	0.95	UQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: **AST35-SB03-GW DUP** ***Collected:*** **6/14/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL)ETHER	2.4	UYZ	2.4	LOD	4.8	LOQ	ug/L	UJ	Lcs
CARBAZOLE	1.8	J	0.95	LOD	4.8	LOQ	ug/L	J	RI
N-NITROSODIMETHYLAMINE	0.95	UYQ	0.95	LOD	4.8	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **AST35-SB04-GW** ***Collected:*** **6/14/2016 12:00:00 PM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	2.4	UQ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	2.4	UYQZ	2.4	LOD	24	LOQ	ug/L	UJ	Lcs, Lcs
PHENOL	0.97	UQ	0.97	LOD	4.9	LOQ	ug/L	UJ	Lcs

Sample ID: **AST35-SB04-GW** ***Collected:*** **6/14/2016 12:00:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	2.4	U	2.4	LOD	4.9	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	2.4	U	2.4	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.97	U	0.97	LOD	9.7	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
4-NITROANILINE	2.4	U	2.4	LOD	9.7	LOQ	ug/L	UJ	Surr
BENZYL ALCOHOL	2.4	U	2.4	LOD	24	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	2.4	U	2.4	LOD	4.9	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	2.4	U	2.4	LOD	4.9	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	2.4	UYZ	2.4	LOD	4.9	LOQ	ug/L	UJ	Lcs, Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	2.4	U	2.4	LOD	4.9	LOQ	ug/L	UJ	Surr
CARBAZOLE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
DIBENZOFURAN	0.97	U	0.97	LOD	3.9	LOQ	ug/L	UJ	Surr
DIETHYL PHTHALATE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	2.4	U	2.4	LOD	4.9	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: AST35-SB04-GW **Collected:** 6/14/2016 12:00:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXACHLOROBENZENE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr
NITROBENZENE	2.4	U	2.4	LOD	2.9	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.97	UYQ	0.97	LOD	4.9	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	2.4	U	2.4	LOD	4.9	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.97	U	0.97	LOD	4.9	LOQ	ug/L	UJ	Surr

Method Category: VOA

Method: 8260C **Matrix: Water**

Sample ID: AST35-SB02-GW **Collected:** 6/14/2016 10:05:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.0	UYQ	1.0	LOD	2.0	LOQ	ug/L	UJ	Lcs
ACETONE	4.2	JY	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	1.0		0.60	LOD	1.0	LOQ	ug/L	U	Mb, Tb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ETHYLBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.37	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs

Sample ID: AST35-SB03-GW **Collected:** 6/14/2016 10:55:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ACETONE	3.8	JY	0.60	LOD	10	LOQ	ug/L	U	Tb
BROMODICHLOROMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **AST35-SB03-GW** ***Collected:*** **6/14/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	0.68	JYBQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs, Mb, Fd, Tb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ETHYLBENZENE	2.8		0.60	LOD	1.0	LOQ	ug/L	J	Fd
METHYLENE CHLORIDE	0.41	J	0.60	LOD	5.0	LOQ	ug/L	UJ	Mb, Fd, Tb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs, Fd

Sample ID: **AST35-SB03-GW DUP** ***Collected:*** **6/14/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	3.3	J	0.60	LOD	10	LOQ	ug/L	U	Tb
CHLOROMETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	UJ	Fd
ETHYLBENZENE	7.2		0.60	LOD	1.0	LOQ	ug/L	J	Fd
METHYLENE CHLORIDE	0.60	U	0.60	LOD	5.0	LOQ	ug/L	UJ	Fd
Xylene (Total)	2.5	J	1.8	LOD	3.0	LOQ	ug/L	J	Rl, Fd

Sample ID: **AST35-SB04-GW** ***Collected:*** **6/14/2016 12:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ACETONE	2.0	JY	0.60	LOD	10	LOQ	ug/L	U	Tb
BROMODICHLOROMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	0.72	JYBQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs, Mb, Tb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.40	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb, Tb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **AST35-SB04-GW** ***Collected:*** **6/14/2016 12:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs

Sample ID: **TB-GW-061416-02** ***Collected:*** **6/14/2016 8:15:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2-HEXANONE	1.0	UYQ	1.0	LOD	2.0	LOQ	ug/L	UJ	Lcs
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ETHYLBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.66	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value
StoE	Sampling to Extraction Estimation
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	SR
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD **Preparation Method: 3510C**

Matrix: Water

Sample ID	Type	Actual	Criteria	Units	Flag
AST35-SB04-GW (Reanalysis-1/TOT	Sampling To Extraction	13.00	7.00	DAYS	J- (all detects) UJ (all non-detects)

Project Name and Number: - USACE Project:

Method Blank Outlier Report

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK 0626	6/26/2016 4:52:00 PM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	1.9 ug/L 0.43 ug/L 0.66 ug/L	AST35-SB02-GW TB-GW-061416-02
VOA11B MBLK2 062	6/27/2016 3:17:00 AM	CHLOROMETHANE METHYLENE CHLORIDE	0.73 ug/L 0.56 ug/L	AST35-SB03-GW AST35-SB04-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
AST35-SB02-GW(Initial/TOT)	ACETONE	4.2 ug/L	10U ug/L
AST35-SB02-GW(Initial/TOT)	CHLOROMETHANE	1.0 ug/L	1.0U ug/L
AST35-SB02-GW(Initial/TOT)	METHYLENE CHLORIDE	0.37 ug/L	5.0U ug/L
AST35-SB03-GW(Initial/TOT)	CHLOROMETHANE	0.68 ug/L	1.0U ug/L
AST35-SB03-GW(Initial/TOT)	METHYLENE CHLORIDE	0.41 ug/L	5.0U ug/L
AST35-SB04-GW(Initial/TOT)	CHLOROMETHANE	0.72 ug/L	1.0U ug/L
AST35-SB04-GW(Initial/TOT)	METHYLENE CHLORIDE	0.40 ug/L	5.0U ug/L
TB-GW-061416-02(Initial/TOT)	METHYLENE CHLORIDE	0.66 ug/L	5.0U ug/L

Surrogate Outlier Report

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
AST35-SB02-GW (Initial/TOT)	TOLUENE-D8	88	89.00-112.00	No Affected Compounds	
AST35-SB03-GW (Initial/TOT)	TOLUENE-D8	87.3	89.00-112.00	No Affected Compounds	
AST35-SB04-GW (Initial/TOT)	TOLUENE-D8	87.4	89.00-112.00	No Affected Compounds	

Method: 8270D SIM
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
AST35-SB03-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5	468 650	44.00-119.00 44.00-120.00	All Base/Neutral Target Analytes	J+(all detects)

Method: 8270D-MOD
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
AST35-SB02-GW (Initial/TOT)	PHENOL-D5	21.3	30.00-130.00	No Affected Compounds	
AST35-SB03-GW DUP (Initial/TOT)	PHENOL-D5	20.8	30.00-130.00	No Affected Compounds	
AST35-SB03-GW (Initial/TOT)	PHENOL-D5	24.4	30.00-130.00	No Affected Compounds	
AST35-SB04-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5	43.7 39.2 20.9	44.00-119.00 44.00-120.00 30.00-130.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
AST35-SB04-GW (Reanalysis-1/TOT)	PHENOL-D5	27	30.00-130.00	No Affected Compounds	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-1-40190 LCS-40190 LCSD-1-40190 LCSD-40190 (AST35-SB02-GW AST35-SB03-GW AST35-SB03-GW DUP AST35-SB04-GW)	BENZOIC ACID	42.6	-	50.00-130.00	61.18 (25.00)	BENZOIC ACID	J (all detects) UJ (all non-detects)
LCS-1-40190 LCS-40190 LCSD-1-40190 LCSD-40190 (AST35-SB02-GW AST35-SB03-GW AST35-SB03-GW DUP AST35-SB04-GW)	4-NITROPHENOL BIS(2-CHLOROISOPROPYL)ETHE N-NITROSODIMETHYLAMINE PHENOL	46.9 49.5 30.1 31.8	46.6 - 35.3 -	50.00-130.00 50.00-130.00 50.00-130.00 34.00-121.00	- - - -	4-NITROPHENOL BIS(2-CHLOROISOPROPYL)ETH N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)
LCS-40262 (AST35-SB04-GW)	BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	48.8 39.6 31.2	- - -	50.00-130.00 50.00-130.00 34.00-121.00	- - -	BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	J-(all detects) UJ(all non-detects)

Method: 8260C
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06261 VOA11B LCSD 0626 (AST35-SB02-GW TB-GW-061416-02)	2-HEXANONE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE ETHYLBENZENE STYRENE Xylene (Total)	- 63.1 66.5 67.7 - - -	55.6 61.9 64.8 64 78.1 71.1 75.3	57.00-139.00 66.00-130.00 74.00-126.00 75.00-124.00 79.00-121.00 78.00-123.00 79.00-121.00	- - - - - - -	2-HEXANONE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE ETHYLBENZENE STYRENE Xylene (Total)	J-(all detects) UJ(all non-detects)
VOA11B LCS2 0626 VOA11B LCSD2 062 (AST35-SB03-GW AST35-SB04-GW)	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE STYRENE Trichlorofluoromethane [Freon-11] Xylene (Total)	- 78.8 58.4 65.2 67.8 - - -	73.1 77.2 55.1 62.5 64.5 74.9 62.6 78.2	78.00-124.00 79.00-125.00 66.00-130.00 74.00-126.00 75.00-124.00 78.00-123.00 65.00-141.00 79.00-121.00	- - - - - - - -	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE STYRENE Trichlorofluoromethane [Freon-11] Xylene (Total)	J-(all detects) UJ(all non-detects)
VOA11B LCS2 0626 VOA11B LCSD2 062 (AST35-SB03-GW AST35-SB04-GW)	CHLOROMETHANE	151	142	50.00-139.00	-	CHLOROMETHANE	J+(all detects)

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	AST35-SB03-GW	AST35-SB03-GW DUP			
CHLOROMETHANE	0.68	1.0 U	200	30.00	
ETHYLBENZENE	2.8	7.2	88	30.00	J (all detects)
METHYLENE CHLORIDE	0.41	5.0 U	200	30.00	UJ (all non-detects)
Xylene (Total)	3.0 UQ	2.5	200	30.00	

Method: 8270D SIM
Matrix: Water

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	AST35-SB03-GW	AST35-SB03-GW DUP			
1-METHYLNAPHTHALENE	140	48	98	30.00	
2-METHYLNAPHTHALENE	0.019 U	38	200	30.00	
ACENAPHTHENE	21	3.2	147	30.00	
ACENAPHTHYLENE	4.7	0.40	169	30.00	
ANTHRACENE	12	0.44	186	30.00	
BENZ(A)ANTHRACENE	1.1	0.023 U	200	30.00	
BENZO(A)PYRENE	0.44	0.023 U	200	30.00	
BENZO(B)FLUORANTHENE	0.78	0.023 U	200	30.00	
BENZO(G,H,I)PERYLENE	0.17	0.023 U	200	30.00	J(all detects)
BENZO(K)FLUORANTHENE	0.23	0.023 U	200	30.00	UJ(all non-detects)
CHRYSENE	0.72	0.023 U	200	30.00	
DIBENZO(A,H)ANTHRACENE	0.089	0.023 U	200	30.00	
FLUORANTHENE	3.1	0.062	192	30.00	
FLUORENE	23	2.6	159	30.00	
INDENO(1,2,3-CD)PYRENE	0.17	0.023 U	200	30.00	
NAPHTHALENE	53	34	44	30.00	
PHENANTHRENE	56	5.0	167	30.00	
PYRENE	3.7	0.10	189	30.00	

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-GW-061416-02(Initial/TOT)	6/14/2016 8:15:00 AM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	44 ug/L 2.5 ug/L 0.66 ug/L	AST35-SB02-GW AST35-SB03-GW AST35-SB03-GW DUP AST35-SB04-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
AST35-SB02-GW(Initial/TOT)	ACETONE	4.2 ug/L	10U ug/L
AST35-SB02-GW(Initial/TOT)	CHLOROMETHANE	1.0 ug/L	1.0U ug/L
AST35-SB02-GW(Initial/TOT)	METHYLENE CHLORIDE	0.37 ug/L	5.0U ug/L
AST35-SB03-GW DUP(Initial/TOT)	ACETONE	3.3 ug/L	10U ug/L
AST35-SB03-GW(Initial/TOT)	ACETONE	3.8 ug/L	10U ug/L
AST35-SB03-GW(Initial/TOT)	CHLOROMETHANE	0.68 ug/L	1.0U ug/L
AST35-SB03-GW(Initial/TOT)	METHYLENE CHLORIDE	0.41 ug/L	5.0U ug/L
AST35-SB04-GW(Initial/TOT)	ACETONE	2.0 ug/L	10U ug/L
AST35-SB04-GW(Initial/TOT)	CHLOROMETHANE	0.72 ug/L	1.0U ug/L
AST35-SB04-GW(Initial/TOT)	METHYLENE CHLORIDE	0.40 ug/L	5.0U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 1606529 **Laboratory: RTILABS**

EDD Filename: EDD_1606529_SEDD_2a_v10_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
AST35-SB02-GW	ACETONE METHYLENE CHLORIDE	JY J	4.2 0.37	10 5.0	LOQ LOQ	ug/L ug/L	J (all detects)
AST35-SB03-GW	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	JY JYBQ J	3.8 0.68 0.41	10 1.0 5.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
AST35-SB03-GW DUP	ACETONE Xylene (Total)	J J	3.3 2.5	10 3.0	LOQ LOQ	ug/L ug/L	J (all detects)
AST35-SB04-GW	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	JY JYBQ J	2.0 0.72 0.40	10 1.0 5.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
TB-GW-061416-02	METHYLENE CHLORIDE	J	0.66	5.0	LOQ	ug/L	J (all detects)

Method: 8270D-MOD

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
AST35-SB03-GW	CARBAZOLE	J	1.6	4.7	LOQ	ug/L	J (all detects)
AST35-SB03-GW DUP	CARBAZOLE	J	1.8	4.8	LOQ	ug/L	J (all detects)
AST35-SB04-GW	BENZOIC ACID	JYQH	9.6	24	LOQ	ug/L	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606585		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	20 soil samples and 1 trip blank for a project-specific list of VOCs, SVOCs, PAHs, PCBs, and metals		
Data Reviewer:	Zach Neigh AECOM/Baltimore, MD		
Completed:	August 26th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606585. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

- ✓ Holding times and sample preservation
- ✗ Laboratory method blank data
- ✓ Field rinsate blank data
- ✓ Trip blank data
- ✗ Laboratory control sample (LCS) recoveries
- ✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results
- ✓ Surrogate recoveries
- ✓ Laboratory duplicate results
- ✓ Field duplicate results
- ✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

H2-SS02-02 acetone result was over calibration in the low level VOC analyses. The sample was re-run using methanol preserved vials. Results were taken from the low level.

Samples STB-SB03-06, STB-SB04-06DUP, STB-SS05-01, STB-SS06-01, STB-SS07-01, H1-SS01-01, H1-SS01-02, H1-SS02-02, H2-SS01-01, H2-SS01-02, and H2-SS02-01 were initially analyzed twice for the low level VOCs. Responses for internal standards exceeded method specified criteria. Sample re-analyses were performed using the methanol preserved vials.

The following table defines the data qualifiers assigned by ADR and/or during manual data review of the ADR output:

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **H2-SS02-02** ***Collected:*** **6/15/2016 10:10:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.85**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
1,1,2,2-TETRACHLOROETHANE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
1,1,2-TRICHLOROETHANE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
1,2,3-TRICHLOROPROPANE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
1,2-DIBROMO-3-CHLOROPROPANE	0.0020	UX	0.0020	LOD	0.0049	LOQ	mg/Kg	UJ	Ms
2-Butanone [MEK]	0.013	JYX	0.0099	LOD	0.020	LOQ	mg/Kg	J	Rl, Ms, Ms, Ms
2-HEXANONE	0.0020	UYX	0.0020	LOD	0.0049	LOQ	mg/Kg	UJ	Ms
ACETONE	0.22	JYBXQ	0.0020	LOD	0.0099	LOQ	mg/Kg	J	Ms, Ms, Ms, Lcs
BENZENE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
BROMOFORM	0.00059	UQXY	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms, Lcs
CHLOROBENZENE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
CHLORODIBROMOMETHANE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
CIS-1,3-DICHLOROPROPENE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
ETHYLBENZENE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
METHYLENE CHLORIDE	0.0017	JQX	0.0020	LOD	0.0049	LOQ	mg/Kg	UJ	Ms, Lcs, Mb
STYRENE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
TETRACHLOROETHENE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
TOLUENE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
TRANS-1,3-DICHLOROPROPENE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
TRICHLOROETHENE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms
Xylene (Total)	0.0018	UX	0.0018	LOD	0.0030	LOQ	mg/Kg	UJ	Ms
1,2-DIBROMOETHANE	0.00059	UX	0.00059	LOD	0.00099	LOQ	mg/Kg	UJ	Ms

Sample ID: **TB-SO-061516-01** ***Collected:*** **6/15/2016 9:00:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.0020	UQY	0.0020	LOD	0.0050	LOQ	mg/Kg	UJ	Lcs
2-Butanone [MEK]	0.010	UQ	0.010	LOD	0.020	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.010	BYQ	0.0020	LOD	0.010	LOQ	mg/Kg	UJ	Lcs, Lcs, Mb
BROMOFORM	0.00060	UQY	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
CHLORODIBROMOMETHANE	0.00060	UQY	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
CIS-1,3-DICHLOROPROPENE	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **WDS-SB20-06** ***Collected:*** **6/15/2016 9:15:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.74**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.0078	JY	0.0083	LOD	0.017	LOQ	mg/Kg	J	Rl
ACETONE	0.12	YBQ	0.0017	LOD	0.0083	LOQ	mg/Kg	J+	Lcs
BROMOFORM	0.00050	UQY	0.00050	LOD	0.00083	LOQ	mg/Kg	UJ	Lcs

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **H1-SS01-01** ***Collected:*** **6/15/2016 8:40:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **118.5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.12	UQ	0.12	LOD	0.20	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.60	J	0.82	LOD	1.0	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.12	UQ	0.12	LOD	0.20	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.82	UQY	0.82	LOD	1.0	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.24		0.12	LOD	0.20	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.098	J	0.12	LOD	0.41	LOQ	mg/Kg	U	Mb
STYRENE	0.12	UQ	0.12	LOD	0.20	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H1-SS01-02** ***Collected:*** **6/15/2016 8:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **129.1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.11	UQ	0.11	LOD	0.19	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.18	J	0.76	LOD	0.95	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.11	UQ	0.11	LOD	0.19	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.76	UQY	0.76	LOD	0.95	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.23		0.11	LOD	0.19	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.090	J	0.11	LOD	0.38	LOQ	mg/Kg	U	Mb
STYRENE	0.11	UQ	0.11	LOD	0.19	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **H1-SS02-01** ***Collected:*** **6/15/2016 9:00:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **101.2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.082	UQ	0.082	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.31	J	0.54	LOD	0.68	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.082	UQ	0.082	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.54	UYQ	0.54	LOD	0.68	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.14		0.082	LOD	0.14	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.14	J	0.082	LOD	0.27	LOQ	mg/Kg	U	Mb
STYRENE	0.082	UQ	0.082	LOD	0.14	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H1-SS02-02** ***Collected:*** **6/15/2016 9:05:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **97.7**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.073	UQ	0.073	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.073	UQ	0.073	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.49	UYQ	0.49	LOD	0.61	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.20		0.073	LOD	0.12	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.067	J	0.073	LOD	0.24	LOQ	mg/Kg	U	Mb
STYRENE	0.073	UQ	0.073	LOD	0.12	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H2-SS01-01** ***Collected:*** **6/15/2016 9:40:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **87.8**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.060	UQ	0.060	LOD	0.10	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.060	UQ	0.060	LOD	0.10	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.40	UYQ	0.40	LOD	0.50	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.12		0.060	LOD	0.10	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.061	J	0.060	LOD	0.20	LOQ	mg/Kg	U	Mb
STYRENE	0.060	UQ	0.060	LOD	0.10	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H2-SS01-02** ***Collected:*** **6/15/2016 9:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **88.2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.058	UQ	0.058	LOD	0.097	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Method Category: VOA

Method: 8260C-ME **Matrix: Soil**

Sample ID: H2-SS01-02 **Collected:** 6/15/2016 9:50:00 AM **Analysis Type:** Initial **Dilution:** 88.2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMODICHLOROMETHANE	0.058	UQ	0.058	LOD	0.097	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.39	UYQ	0.39	LOD	0.49	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.13		0.058	LOD	0.097	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.057	J	0.058	LOD	0.19	LOQ	mg/Kg	U	Mb
STYRENE	0.058	UQ	0.058	LOD	0.097	LOQ	mg/Kg	UJ	Lcs

Sample ID: H2-SS02-01 **Collected:** 6/15/2016 10:00:00 AM **Analysis Type:** Initial **Dilution:** 96.6

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.066	UQ	0.066	LOD	0.11	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.073	J	0.44	LOD	0.55	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.066	UQ	0.066	LOD	0.11	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.44	UYQ	0.44	LOD	0.55	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.18		0.066	LOD	0.11	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.059	J	0.066	LOD	0.22	LOQ	mg/Kg	U	Mb
STYRENE	0.066	UQ	0.066	LOD	0.11	LOQ	mg/Kg	UJ	Lcs

Method Category: VOA

Method: 8260C-STAR **Matrix: Soil**

Sample ID: STB-SB04-06 **Collected:** 6/15/2016 10:05:00 AM **Analysis Type:** Initial **Dilution:** 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.00063	UQ	0.00063	LOD	0.0052	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
ProfJudg	Professional Judgment
Rl	Reporting Limit Trace Value

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	A
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK 0618	6/18/2016 11:50:00 PM	ACETONE METHYLENE CHLORIDE TOLUENE	0.015 mg/Kg 0.0045 mg/Kg 0.00058 mg/Kg	TB-SO-061516-01
VOA11B MBLK2 061	6/19/2016 12:07:00 PM	ACETONE METHYLENE CHLORIDE	0.0079 mg/Kg 0.0018 mg/Kg	H2-SS02-02 WDS-SB20-06

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H2-SS02-02(Initial)	METHYLENE CHLORIDE	0.0017 mg/Kg	0.0049U mg/Kg
TB-SO-061516-01(Initial)	ACETONE	0.010 mg/Kg	0.010U mg/Kg

Method: **8260C-ME**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK2 062	6/28/2016 8:53:00 PM	CHLOROMETHANE METHYLENE CHLORIDE	0.024 mg/Kg 0.022 mg/Kg	H1-SS01-01 H1-SS01-02 H1-SS02-01 H1-SS02-02 H2-SS01-01 H2-SS01-02 H2-SS02-01 H2-SS02-02

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H1-SS01-01(Initial)	CHLOROMETHANE	0.24 mg/Kg	0.24U mg/Kg
H1-SS01-01(Initial)	METHYLENE CHLORIDE	0.098 mg/Kg	0.41U mg/Kg
H1-SS01-02(Initial)	CHLOROMETHANE	0.23 mg/Kg	0.23U mg/Kg
H1-SS01-02(Initial)	METHYLENE CHLORIDE	0.090 mg/Kg	0.38U mg/Kg
H1-SS02-01(Initial)	CHLOROMETHANE	0.14 mg/Kg	0.14U mg/Kg
H1-SS02-01(Initial)	METHYLENE CHLORIDE	0.14 mg/Kg	0.27U mg/Kg
H1-SS02-02(Initial)	CHLOROMETHANE	0.20 mg/Kg	0.20U mg/Kg
H1-SS02-02(Initial)	METHYLENE CHLORIDE	0.067 mg/Kg	0.24U mg/Kg
H2-SS01-01(Initial)	CHLOROMETHANE	0.12 mg/Kg	0.12U mg/Kg
H2-SS01-01(Initial)	METHYLENE CHLORIDE	0.061 mg/Kg	0.20U mg/Kg
H2-SS01-02(Initial)	CHLOROMETHANE	0.13 mg/Kg	0.13U mg/Kg
H2-SS01-02(Initial)	METHYLENE CHLORIDE	0.057 mg/Kg	0.19U mg/Kg
H2-SS02-01(Initial)	CHLOROMETHANE	0.18 mg/Kg	0.18U mg/Kg
H2-SS02-01(Initial)	METHYLENE CHLORIDE	0.059 mg/Kg	0.22U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C-STAR**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK5 0618	6/18/2016 11:50:00 PM	TOLUENE	0.00058 mg/Kg	STB-SB04-06

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
H2-SS02-02MSD (H2-SS02-02)	1,1,1-TRICHLOROETHANE 1,1-DICHLOROETHENE CARBON DISULFIDE CARBON TETRACHLORIDE CHLOROETHANE CHLOROFORM CHLOROMETHANE CIS-1,2-DICHLOROETHENE Dichlorodifluoromethane [Freon-12] Trichlorofluoromethane [Freon-11] VINYL CHLORIDE	- - - - - - - - - - -	- - - - - - - - - - -	73.00-130.00 70.00-131.00 63.00-132.00 70.00-135.00 59.00-139.00 78.00-123.00 50.00-136.00 77.00-123.00 29.00-149.00 62.00-140.00 56.00-135.00	28.41 (25.00) 28.88 (25.00) 37.7 (25.00) 26.19 (25.00) 26.39 (25.00) 25.76 (25.00) 46.87 (25.00) 30.72 (25.00) 29.43 (25.00) 28.39 (25.00) 29.33 (25.00)	1,1,1-TRICHLOROETHANE 1,1-DICHLOROETHENE CARBON DISULFIDE CARBON TETRACHLORIDE CHLOROETHANE CHLOROFORM CHLOROMETHANE CIS-1,2-DICHLOROETHENE Dichlorodifluoromethane [Freon-12 Trichlorofluoromethane [Freon-11] VINYL CHLORIDE	J (all detects)
H2-SS02-02MS H2-SS02-02MSD (H2-SS02-02)	1,1,2,2-TETRACHLOROETHANE 1,1,2-TRICHLOROETHANE 1,2,3-TRICHLOROPROPANE 1,2-DIBROMO-3-CHLOROPROPAN 1,2-DIBROMOETHANE 2-Butanone [MEK] 2-HEXANONE ACETONE BENZENE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE ETHYLBENZENE STYRENE TOLUENE TRANS-1,3-DICHLOROPROPENE Xylene (Total)	- - - - - 153 - 384 - 52.4 64.5 56.4 65.8 43.9 74.2 58.3 64.1	65.4 77.9 61.2 49.5 65.1 -122 13.4 -1940 74.3 41.3 56.1 36.2 60.9 13.5 66.8 35.3 59.1	70.00-124.00 78.00-124.00 73.00-125.00 61.00-132.00 78.00-122.00 51.00-148.00 53.00-145.00 36.00-164.00 77.00-121.00 67.00-132.00 74.00-126.00 74.00-126.00 76.00-122.00 76.00-124.00 77.00-121.00 71.00-130.00 78.00-124.00	38.58 (25.00) 29.53 (25.00) 59.47 (25.00) 50.18 (25.00) 48.35 (25.00) 200 (25.00) 166.66 (25.00) 180.92 (25.00) 33.69 (25.00) 43.65 (25.00) 34.17 (25.00) 62.71 (25.00) 28.11 (25.00) 119.91 (25.00) 30.82 (25.00) 67.92 (25.00) 28.59 (25.00)	1,1,2,2-TETRACHLOROETHANE 1,1,2-TRICHLOROETHANE 1,2,3-TRICHLOROPROPANE 1,2-DIBROMO-3-CHLOROPROPA 1,2-DIBROMOETHANE 2-Butanone [MEK] 2-HEXANONE ACETONE BENZENE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE ETHYLBENZENE STYRENE TOLUENE TRANS-1,3-DICHLOROPROPENE Xylene (Total)	J(all detects) UJ(all non-detects)
H2-SS02-02MS H2-SS02-02MSD (H2-SS02-02)	1,1,1,2-TETRACHLOROETHANE CHLOROBENZENE TETRACHLOROETHENE TRICHLOROETHENE	73.8 62.5 63.3 72.4	70.7 60.9 67.1 70.4	78.00-125.00 79.00-120.00 73.00-128.00 77.00-123.00	- - - -	1,1,1,2-TETRACHLOROETHANE CHLOROBENZENE TETRACHLOROETHENE TRICHLOROETHENE	J-(all detects) UJ(all non-detects)
H2-SS02-02MSD (H2-SS02-02)	METHYLENE CHLORIDE	-	139	70.00-128.00	-	METHYLENE CHLORIDE	J+(all detects)

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C-ME**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
H2-SS02-02MS H2-SS02-02MSD (H2-SS02-02)	1,1,1,2-TETRACHLOROETHANE	74.9	69.6	78.00-125.00	-	1,1,1,2-TETRACHLOROETHANE	
	BROMODICHLOROMETHANE	69.1	65.5	75.00-127.00	-	BROMODICHLOROMETHANE	
	CHLOROETHANE	31	26.9	59.00-139.00	-	CHLOROETHANE	J-(all detects)
	CIS-1,3-DICHLOROPROPENE	73.8	66.1	74.00-126.00	-	CIS-1,3-DICHLOROPROPENE	UJ(all non-detects)
	STYRENE	72.3	65	76.00-124.00	-	STYRENE	
	TRANS-1,3-DICHLOROPROPENE	67	63.7	71.00-130.00	-	TRANS-1,3-DICHLOROPROPENE	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06181 VOA11B LCSD 0618 (TB-SO-061516-01)	2-Butanone [MEK] ACETONE	- 355	213 244	51.00-148.00 36.00-164.00	46.01 (25.00) 37.22 (25.00)	2-Butanone [MEK] ACETONE	J (all detects) UJ (all non-detects)
VOA11B LCS 06181 VOA11B LCSD 0618 (TB-SO-061516-01)	1,2-DIBROMO-3-CHLOROPROPAN BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE	59 54.8 66.8 -	- 52.1 65.8 73.9	61.00-132.00 67.00-132.00 74.00-126.00 74.00-126.00	- - - -	1,2-DIBROMO-3-CHLOROPROPA BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE	J-(all detects) UJ(all non-detects)
VOA11B LCSD 0618 (TB-SO-061516-01)	METHYLENE CHLORIDE	-	145	70.00-128.00	-	METHYLENE CHLORIDE	J+(all detects)
VOA11B LCS2 0618 VOA11B LCSD2 061 (H2-SS02-02 WDS-SB20-06)	BROMOFORM	64.7	63.9	67.00-132.00	-	BROMOFORM	J-(all detects) UJ(all non-detects)
VOA11B LCS2 0618 VOA11B LCSD2 061 (H2-SS02-02 WDS-SB20-06)	ACETONE METHYLENE CHLORIDE	202 140	204 147	36.00-164.00 70.00-128.00	- -	ACETONE METHYLENE CHLORIDE	J+(all detects)

Method: 8260C-ME
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS2 0628 (H1-SS01-01 H1-SS01-02 H1-SS02-01 H1-SS02-02 H2-SS01-01 H2-SS01-02 H2-SS02-01 H2-SS02-02)	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE CHLOROETHANE STYRENE	73.4 74.2 0 73	- - - -	78.00-125.00 75.00-127.00 59.00-139.00 76.00-124.00	- - - -	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE CHLOROETHANE STYRENE	J-(all detects) UJ(all non-detects)

Method: 8260C-STAR
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCSD5 0618 (STB-SB04-06)	NAPHTHALENE	-	61.7	62.00-129.00	-	NAPHTHALENE	J-(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606585 **Laboratory: RTILABS**

EDD Filename: EDD_1606585_SEDD_2a_v18_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H2-SS02-02	2-Butanone [MEK] METHYLENE CHLORIDE	JYX JQX	0.013 0.0017	0.020 0.0049	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB20-06	2-Butanone [MEK]	JY	0.0078	0.017	LOQ	mg/Kg	J (all detects)

Method: 8260C-ME

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H1-SS01-01	ACETONE METHYLENE CHLORIDE	J J	0.60 0.098	1.0 0.41	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H1-SS01-02	ACETONE METHYLENE CHLORIDE	J J	0.18 0.090	0.95 0.38	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H1-SS02-01	ACETONE METHYLENE CHLORIDE	J J	0.31 0.14	0.68 0.27	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H1-SS02-02	METHYLENE CHLORIDE	J	0.067	0.24	LOQ	mg/Kg	J (all detects)
H2-SS01-01	METHYLENE CHLORIDE	J	0.061	0.20	LOQ	mg/Kg	J (all detects)
H2-SS01-02	METHYLENE CHLORIDE	J	0.057	0.19	LOQ	mg/Kg	J (all detects)
H2-SS02-01	ACETONE METHYLENE CHLORIDE	J J	0.073 0.059	0.55 0.22	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H2-SS02-02	METHYLENE CHLORIDE	J	0.070	0.20	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606588		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	18 soil samples and 1 trip blank for a project-specific list of VOCs		
Data Reviewer:	Tara Bhat AECOM/Arlington, VA		
Completed:	August 30, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606588. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

✓ Laboratory duplicate results

✓ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Soil**

Sample ID: **TB-SO-061416-01** ***Collected:*** **6/14/2016 8:00:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.010	UQ	0.010	LOD	0.020	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.0096	JYQ	0.0020	LOD	0.010	LOQ	mg/Kg	UJ	Lcs, Lcs, Mb

Sample ID: **WDS-SB01-01** ***Collected:*** **6/14/2016 2:20:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1.01**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.017	JQ	0.012	LOD	0.024	LOQ	mg/Kg	J	Rl, Lcs, Lcs
ACETONE	0.22	YQ	0.0024	LOD	0.012	LOQ	mg/Kg	J	Lcs, Lcs

Sample ID: **WDS-SB02-02** ***Collected:*** **6/14/2016 2:35:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **1.07**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.0080	JY	0.012	LOD	0.024	LOQ	mg/Kg	J	Rl
ACETONE	0.093	YBQ	0.0024	LOD	0.012	LOQ	mg/Kg	UJ	Lcs, Tb
BENZENE	0.00062	J	0.00073	LOD	0.0010	LOQ	mg/Kg	J	Rl
BROMOFORM	0.00073	UQY	0.00073	LOD	0.0012	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB03-06** ***Collected:*** **6/14/2016 2:40:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.95**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.013	JY	0.011	LOD	0.022	LOQ	mg/Kg	J	Rl
ACETONE	0.097	YBQ	0.0022	LOD	0.011	LOQ	mg/Kg	J+	Lcs
BROMOFORM	0.00067	UQY	0.00067	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs
CARBON DISULFIDE	0.00094	J	0.00067	LOD	0.0011	LOQ	mg/Kg	J	Rl

Sample ID: **WDS-SB06-05** ***Collected:*** **6/14/2016 9:45:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **0.95**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.12	YBQ	0.0021	LOD	0.011	LOQ	mg/Kg	J+	Lcs
BROMOFORM	0.00063	UQY	0.00063	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: VOA

Method: 8260C **Matrix: Soil**

Sample ID: WDS-SB07-05 **Collected:** 6/14/2016 9:30:00 AM **Analysis Type:** Initial **Dilution:** 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.014	JY	0.011	LOD	0.022	LOQ	mg/Kg	J	RI
ACETONE	0.22	YBQ	0.0022	LOD	0.011	LOQ	mg/Kg	J+	Lcs
BROMOFORM	0.00067	UQY	0.00067	LOD	0.0011	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB14-11 **Collected:** 6/14/2016 1:10:00 PM **Analysis Type:** Initial **Dilution:** 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.014	YBQ	0.0019	LOD	0.0094	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
BROMOFORM	0.00056	UYQ	0.00056	LOD	0.00094	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB15-13 **Collected:** 6/14/2016 11:45:00 AM **Analysis Type:** Initial **Dilution:** 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.028	YBQ	0.0018	LOD	0.0090	LOQ	mg/Kg	UJ	Lcs, Mb, Tb
BROMOFORM	0.00054	UYQ	0.00054	LOD	0.00090	LOQ	mg/Kg	UJ	Lcs

Method Category: VOA

Method: 8260C-ME **Matrix: Soil**

Sample ID: H21-SB01-11 **Collected:** 6/14/2016 9:05:00 AM **Analysis Type:** Initial **Dilution:** 111.7

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.076	UQ	0.076	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.076	UQ	0.076	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.51	UYQ	0.51	LOD	0.63	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.18		0.076	LOD	0.13	LOQ	mg/Kg	U	Mb
STYRENE	0.076	UQ	0.076	LOD	0.13	LOQ	mg/Kg	UJ	Lcs

Sample ID: H21-SB02-10 **Collected:** 6/14/2016 8:55:00 AM **Analysis Type:** Initial **Dilution:** 83.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.056	UQ	0.056	LOD	0.093	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **H21-SB02-10** ***Collected:*** **6/14/2016 8:55:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **83.8**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.13	J	0.37	LOD	0.47	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.056	UQ	0.056	LOD	0.093	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.37	UYQ	0.37	LOD	0.47	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.17		0.056	LOD	0.093	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.070	J	0.056	LOD	0.19	LOQ	mg/Kg	J	Rl
STYRENE	0.056	UQ	0.056	LOD	0.093	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H21-SB03-06** ***Collected:*** **6/14/2016 8:35:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **104.2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.073	UQ	0.073	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.21	J	0.49	LOD	0.61	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.073	UQ	0.073	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.49	UYQ	0.49	LOD	0.61	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.16		0.073	LOD	0.12	LOQ	mg/Kg	U	Mb
STYRENE	0.073	UQ	0.073	LOD	0.12	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H21-SS01-01** ***Collected:*** **6/14/2016 9:00:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **99.6**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.070	UQ	0.070	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.14	J	0.47	LOD	0.58	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.070	UQ	0.070	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.47	UYQ	0.47	LOD	0.58	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.18		0.070	LOD	0.12	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.054	J	0.070	LOD	0.23	LOQ	mg/Kg	J	Rl
STYRENE	0.070	UQ	0.070	LOD	0.12	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H21-SS02-01** ***Collected:*** **6/14/2016 8:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **144.3**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.096	UQ	0.096	LOD	0.16	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: VOA

Method: 8260C-ME **Matrix:** Soil

Sample ID: H21-SS02-01 **Collected:** 6/14/2016 8:50:00 AM **Analysis Type:** Initial **Dilution:** 144.3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	0.27	J	0.64	LOD	0.80	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.096	UQ	0.096	LOD	0.16	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.64	UYQ	0.64	LOD	0.80	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.20		0.096	LOD	0.16	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.072	J	0.096	LOD	0.32	LOQ	mg/Kg	J	Rl
STYRENE	0.096	UQ	0.096	LOD	0.16	LOQ	mg/Kg	UJ	Lcs

Sample ID: H21-SS03-01 **Collected:** 6/14/2016 8:30:00 AM **Analysis Type:** Initial **Dilution:** 116.1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.079	UQ	0.079	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.23	J	0.53	LOD	0.66	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.079	UQ	0.079	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.53	UYQ	0.53	LOD	0.66	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.19		0.079	LOD	0.13	LOQ	mg/Kg	U	Mb
STYRENE	0.079	UQ	0.079	LOD	0.13	LOQ	mg/Kg	UJ	Lcs

Sample ID: WDS-SB04-01 **Collected:** 6/14/2016 4:00:00 PM **Analysis Type:** Initial **Dilution:** 94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.063	UQX	0.063	LOD	0.11	LOQ	mg/Kg	UJ	Ms, Lcs
ACETONE	0.11	J	0.42	LOD	0.53	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.063	UQX	0.063	LOD	0.11	LOQ	mg/Kg	UJ	Ms, Lcs
CHLOROETHANE	0.42	UYQX	0.42	LOD	0.53	LOQ	mg/Kg	UJ	Ms, Lcs
CHLOROMETHANE	0.13		0.063	LOD	0.11	LOQ	mg/Kg	U	Mb
CIS-1,3-DICHLOROPROPENE	0.063	UX	0.063	LOD	0.11	LOQ	mg/Kg	UJ	Ms
STYRENE	0.063	UQX	0.063	LOD	0.11	LOQ	mg/Kg	UJ	Ms, Lcs
TRANS-1,3-DICHLOROPROPENE	0.063	UX	0.063	LOD	0.11	LOQ	mg/Kg	UJ	Ms

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **WDS-SB05-01** ***Collected:*** **6/14/2016 4:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **98.6**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.067	UQ	0.067	LOD	0.11	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.067	UQ	0.067	LOD	0.11	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.45	UYQ	0.45	LOD	0.56	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.14		0.067	LOD	0.11	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.055	J	0.067	LOD	0.22	LOQ	mg/Kg	J	Rl
STYRENE	0.067	UQ	0.067	LOD	0.11	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB16-13** ***Collected:*** **6/14/2016 12:15:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **87.3**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.059	UQ	0.059	LOD	0.098	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.059	UQ	0.059	LOD	0.098	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.39	UYQ	0.39	LOD	0.49	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.17		0.059	LOD	0.098	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.044	J	0.059	LOD	0.20	LOQ	mg/Kg	J	Rl
STYRENE	0.059	UQ	0.059	LOD	0.098	LOQ	mg/Kg	UJ	Lcs

Sample ID: **WDS-SB17-13** ***Collected:*** **6/14/2016 12:50:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **89.4**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.057	UQ	0.057	LOD	0.095	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.057	UQ	0.057	LOD	0.095	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.38	UYQ	0.38	LOD	0.48	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.16		0.057	LOD	0.095	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.043	J	0.057	LOD	0.19	LOQ	mg/Kg	J	Rl
STYRENE	0.057	UQ	0.057	LOD	0.095	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Rl	Reporting Limit Trace Value
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	A
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK 0621	6/21/2016 10:00:00 AM	ACETONE	0.0049 mg/Kg	TB-SO-061416-01 WDS-SB01-01
VOA11B MBLK2 061	6/19/2016 12:07:00 PM	ACETONE METHYLENE CHLORIDE	0.0079 mg/Kg 0.0018 mg/Kg	WDS-SB02-02 WDS-SB03-06 WDS-SB06-05 WDS-SB07-05 WDS-SB14-11 WDS-SB15-13

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
TB-SO-061416-01(Initial)	ACETONE	0.0096 mg/Kg	0.010U mg/Kg
WDS-SB14-11(Initial)	ACETONE	0.014 mg/Kg	0.014U mg/Kg
WDS-SB15-13(Initial)	ACETONE	0.028 mg/Kg	0.028U mg/Kg

Method: **8260C-ME**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK 0628	6/28/2016 9:41:00 AM	CHLOROMETHANE	0.020 mg/Kg	H21-SB01-11 H21-SB02-10 H21-SB03-06 H21-SS01-01 H21-SS02-01 H21-SS03-01 WDS-SB04-01 WDS-SB05-01 WDS-SB16-13 WDS-SB17-13

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H21-SB01-11(Initial)	CHLOROMETHANE	0.18 mg/Kg	0.18U mg/Kg
H21-SB02-10(Initial)	CHLOROMETHANE	0.17 mg/Kg	0.17U mg/Kg
H21-SB03-06(Initial)	CHLOROMETHANE	0.16 mg/Kg	0.16U mg/Kg
H21-SS01-01(Initial)	CHLOROMETHANE	0.18 mg/Kg	0.18U mg/Kg
H21-SS02-01(Initial)	CHLOROMETHANE	0.20 mg/Kg	0.20U mg/Kg
H21-SS03-01(Initial)	CHLOROMETHANE	0.19 mg/Kg	0.19U mg/Kg
WDS-SB04-01(Initial)	CHLOROMETHANE	0.13 mg/Kg	0.13U mg/Kg
WDS-SB05-01(Initial)	CHLOROMETHANE	0.14 mg/Kg	0.14U mg/Kg
WDS-SB16-13(Initial)	CHLOROMETHANE	0.17 mg/Kg	0.17U mg/Kg
WDS-SB17-13(Initial)	CHLOROMETHANE	0.16 mg/Kg	0.16U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: **8260C-ME**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
WDS-SB04-01MS WDS-SB04-01MSD (WDS-SB04-01)	1,1,1,2-TETRACHLOROETHANE	76.6	71.2	78.00-125.00	-	1,1,1,2-TETRACHLOROETHANE	
	BROMODICHLOROMETHANE	68.7	70.2	75.00-127.00	-	BROMODICHLOROMETHANE	
	CHLOROETHANE	32.6	31.5	59.00-139.00	-	CHLOROETHANE	J- (all detects) UJ (all non-detects)
	CIS-1,3-DICHLOROPROPENE	68.2	67.8	74.00-126.00	-	CIS-1,3-DICHLOROPROPENE	
	STYRENE	70.9	69.1	76.00-124.00	-	STYRENE	
	TRANS-1,3-DICHLOROPROPENE	65.5	64.7	71.00-130.00	-	TRANS-1,3-DICHLOROPROPENE	

Project Name and Number: - USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS2 0618 VOA11B LCSD2 061 (WDS-SB02-02 WDS-SB03-06 WDS-SB06-05 WDS-SB07-05 WDS-SB14-11 WDS-SB15-13)	BROMOFORM	64.7	63.9	67.00-132.00	-	BROMOFORM	J- (all detects) UJ (all non-detects)
VOA11B LCS2 0618 VOA11B LCSD2 061 (WDS-SB02-02 WDS-SB03-06 WDS-SB06-05 WDS-SB07-05 WDS-SB14-11 WDS-SB15-13)	ACETONE METHYLENE CHLORIDE	202 140	204 147	36.00-164.00 70.00-128.00	- -	ACETONE METHYLENE CHLORIDE	J+(all detects)
VOA11B LCS 06211 VOA11B LCSD 0621 (TB-SO-061416-01 WDS-SB01-01)	2-Butanone [MEK] ACETONE	160 247	- 178	51.00-148.00 36.00-164.00	36.29 (25.00) 32.19 (25.00)	2-Butanone [MEK] ACETONE	J(all detects) UJ(all non-detects)

Method: 8260C-ME
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06281 (H21-SB01-11 H21-SB02-10 H21-SB03-06 H21-SS01-01 H21-SS02-01 H21-SS03-01 WDS-SB04-01 WDS-SB05-01 WDS-SB16-13 WDS-SB17-13)	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE CHLOROETHANE STYRENE	76 71.8 26.2 73.4	- - - -	78.00-125.00 75.00-127.00 59.00-139.00 76.00-124.00	- - - -	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE CHLOROETHANE STYRENE	J-(all detects) UJ(all non-detects)

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-SO-061416-01(Initial)	6/14/2016 8:00:00 AM	ACETONE	0.0096 mg/Kg	H21-SB01-11 H21-SB02-10 H21-SB03-06 H21-SS01-01 H21-SS02-01 H21-SS03-01 MP-SB01-04 MP-SB01-04 DUP WDS-SB01-01 WDS-SB02-02 WDS-SB03-06 WDS-SB04-01 WDS-SB05-01 WDS-SB06-05 WDS-SB07-05 WDS-SB14-11 WDS-SB15-13 WDS-SB16-13 WDS-SB17-13

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
WDS-SB02-02(Initial)	ACETONE	0.093 mg/Kg	0.093U mg/Kg
WDS-SB14-11(Initial)	ACETONE	0.014 mg/Kg	0.014U mg/Kg
WDS-SB15-13(Initial)	ACETONE	0.028 mg/Kg	0.028U mg/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: 1606588 **Laboratory: RTILABS**

EDD Filename: EDD_1606588_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: 8260C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TB-SO-061416-01	ACETONE	JYQ	0.0096	0.010	LOQ	mg/Kg	J (all detects)
WDS-SB01-01	2-Butanone [MEK]	JQ	0.017	0.024	LOQ	mg/Kg	J (all detects)
WDS-SB02-02	2-Butanone [MEK] BENZENE	JY J	0.0080 0.00062	0.024 0.0010	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB03-06	2-Butanone [MEK] CARBON DISULFIDE	JY J	0.013 0.00094	0.022 0.0011	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
WDS-SB07-05	2-Butanone [MEK]	JY	0.014	0.022	LOQ	mg/Kg	J (all detects)

Method: 8260C-ME

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H21-SB02-10	ACETONE METHYLENE CHLORIDE	J J	0.13 0.070	0.47 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H21-SB03-06	ACETONE	J	0.21	0.61	LOQ	mg/Kg	J (all detects)
H21-SS01-01	ACETONE METHYLENE CHLORIDE	J J	0.14 0.054	0.58 0.23	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H21-SS02-01	ACETONE METHYLENE CHLORIDE	J J	0.27 0.072	0.80 0.32	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H21-SS03-01	ACETONE	J	0.23	0.66	LOQ	mg/Kg	J (all detects)
WDS-SB04-01	ACETONE	J	0.11	0.53	LOQ	mg/Kg	J (all detects)
WDS-SB05-01	METHYLENE CHLORIDE	J	0.055	0.22	LOQ	mg/Kg	J (all detects)
WDS-SB16-13	METHYLENE CHLORIDE	J	0.044	0.20	LOQ	mg/Kg	J (all detects)
WDS-SB17-13	METHYLENE CHLORIDE	J	0.043	0.19	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606604		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	7 soil samples for a project-specific list of VOCs, PAHs, PCBs, and metals		
Data Reviewer:	Devon Chicoine AECOM/Arlington, VA		
Completed:	August 29, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606604. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✓ Holding times and sample preservation

✗ Laboratory method blank data

✓ Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✓ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

✓ Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR and/or during manual data review of the ADR output:

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix:** Soil

Sample ID: H19-SS01-01 **Collected:** 6/15/2016 11:45:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.051	J	0.037	LOD	0.19	LOQ	mg/Kg	J	Rl
CADMIUM	0.026	J	0.037	LOD	0.19	LOQ	mg/Kg	J	Rl
ARSENIC	1.4	J	0.74	LOD	1.5	LOQ	mg/Kg	J	Rl

Sample ID: H19-SS02-01 **Collected:** 6/15/2016 11:50:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.083	J	0.039	LOD	0.19	LOQ	mg/Kg	J	Rl, Fd
CADMIUM	0.055	J	0.039	LOD	0.19	LOQ	mg/Kg	J	Rl

Sample ID: H19-SS02-01 DUP **Collected:** 6/15/2016 11:50:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.021	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl, Fd
CADMIUM	0.041	J	0.038	LOD	0.19	LOQ	mg/Kg	J	Rl

Sample ID: H22-SS01-01 **Collected:** 6/15/2016 12:35:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.052	J	0.035	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	3.2	J	0.70	LOD	3.5	LOQ	mg/Kg	J	Rl

Sample ID: H22-SS01-02 **Collected:** 6/15/2016 12:45:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.055	J	0.036	LOD	0.18	LOQ	mg/Kg	J	Rl
LEAD	3.4	J	0.73	LOD	3.6	LOQ	mg/Kg	J	Rl

Sample ID: H22-SS02-01 **Collected:** 6/15/2016 1:00:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.029	J	0.036	LOD	0.18	LOQ	mg/Kg	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6010C **Matrix: Soil**

Sample ID: H22-SS02-02 **Collected:** 6/15/2016 1:05:00 PM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.019	J	0.039	LOD	0.20	LOQ	mg/Kg	J	RI
CADMIUM	0.034	J	0.039	LOD	0.20	LOQ	mg/Kg	J	RI
LEAD	3.8	J	0.78	LOD	3.9	LOQ	mg/Kg	J	RI

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H19-SS01-01 **Collected:** 6/15/2016 11:45:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.058	J	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H19-SS02-01 **Collected:** 6/15/2016 11:50:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.077	J	0.039	LOD	0.16	LOQ	mg/Kg	J	RI

Sample ID: H19-SS02-01 DUP **Collected:** 6/15/2016 11:50:00 AM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.097	J	0.038	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H22-SS01-01 **Collected:** 6/15/2016 12:35:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.092	J	0.036	LOD	0.15	LOQ	mg/Kg	J	RI

Sample ID: H22-SS01-02 **Collected:** 6/15/2016 12:45:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.12	J	0.035	LOD	0.14	LOQ	mg/Kg	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A-TL **Matrix: Soil**

Sample ID: H22-SS02-01 **Collected:** 6/15/2016 1:00:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.056	J	0.038	LOD	0.15	LOQ	mg/Kg	J	Rl

Sample ID: H22-SS02-02 **Collected:** 6/15/2016 1:05:00 PM **Analysis Type:** Initial **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.048	J	0.037	LOD	0.15	LOQ	mg/Kg	J	Rl

Method Category: SVOA

Method: 8270D-MOD **Matrix: Soil**

Sample ID: H22-SS01-01 **Collected:** 6/15/2016 12:35:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.36	UY	0.36	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: H22-SS01-02 **Collected:** 6/15/2016 12:45:00 PM **Analysis Type:** Initial-ACID **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	1.1	UY	1.1	LOD	3.2	LOQ	mg/Kg	UJ	Lcs

Sample ID: H22-SS02-01 **Collected:** 6/15/2016 1:00:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.38	UY	0.38	LOD	1.1	LOQ	mg/Kg	UJ	Lcs

Sample ID: H22-SS02-02 **Collected:** 6/15/2016 1:05:00 PM **Analysis Type:** Initial-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	0.38	UY	0.38	LOD	1.2	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method Category: VOA

Method: 8260C **Matrix: Soil**

Sample ID: TB-SO-061516-02 **Collected:** 6/15/2016 9:05:00 AM **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Butanone [MEK]	0.010	UQ	0.010	LOD	0.020	LOQ	mg/Kg	UJ	Lcs, Lcs
ACETONE	0.0013	JZ	0.0020	LOD	0.010	LOQ	mg/Kg	J	RI
CIS-1,3-DICHLOROPROPENE	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
METHYLENE CHLORIDE	0.0081	BQ	0.0020	LOD	0.0050	LOQ	mg/Kg	UJ	Lcs, Mb
STYRENE	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs
TRANS-1,3-DICHLOROPROPENE	0.00060	UQ	0.00060	LOD	0.0010	LOQ	mg/Kg	UJ	Lcs

Method Category: VOA

Method: 8260C-ME **Matrix: Soil**

Sample ID: H19-SS01-01 **Collected:** 6/15/2016 11:45:00 AM **Analysis Type:** Initial **Dilution:** 111.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.078	UQ	0.078	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.28	J	0.52	LOD	0.65	LOQ	mg/Kg	J	RI
BROMODICHLOROMETHANE	0.078	UQ	0.078	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.52	UYQ	0.52	LOD	0.65	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.16		0.078	LOD	0.13	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.061	J	0.078	LOD	0.26	LOQ	mg/Kg	J	RI
STYRENE	0.078	UQ	0.078	LOD	0.13	LOQ	mg/Kg	UJ	Lcs

Sample ID: H19-SS02-01 **Collected:** 6/15/2016 11:50:00 AM **Analysis Type:** Initial **Dilution:** 111.2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.078	UQ	0.078	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.23	J	0.52	LOD	0.65	LOQ	mg/Kg	J	RI
BROMODICHLOROMETHANE	0.078	UQ	0.078	LOD	0.13	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.52	UYQ	0.52	LOD	0.65	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.16		0.078	LOD	0.13	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.078	U	0.078	LOD	0.26	LOQ	mg/Kg	UJ	Fd
STYRENE	0.078	UQ	0.078	LOD	0.13	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **H19-SS02-01 DUP** ***Collected:*** **6/15/2016 11:50:00 AM** ***Analysis Type:*** **Initial** ***Dilution:*** **123.3**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.086	UQ	0.086	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.23	J	0.58	LOD	0.72	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.086	UQ	0.086	LOD	0.14	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.58	UYQ	0.58	LOD	0.72	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.19		0.086	LOD	0.14	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.086	J	0.086	LOD	0.29	LOQ	mg/Kg	J	Rl, Fd
STYRENE	0.086	UQ	0.086	LOD	0.14	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H22-SS01-01** ***Collected:*** **6/15/2016 12:35:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **104.8**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.070	UQ	0.070	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.17	J	0.46	LOD	0.58	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.070	UQ	0.070	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.46	UYQ	0.46	LOD	0.58	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.16		0.070	LOD	0.12	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.064	J	0.070	LOD	0.23	LOQ	mg/Kg	J	Rl
STYRENE	0.070	UQ	0.070	LOD	0.12	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H22-SS01-02** ***Collected:*** **6/15/2016 12:45:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **104.4**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.069	UQ	0.069	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.069	UQ	0.069	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.46	UYQ	0.46	LOD	0.58	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.14		0.069	LOD	0.12	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.060	J	0.069	LOD	0.23	LOQ	mg/Kg	J	Rl
STYRENE	0.069	UQ	0.069	LOD	0.12	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C-ME** ***Matrix:*** **Soil**

Sample ID: **H22-SS02-01** ***Collected:*** **6/15/2016 1:00:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **100.2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.069	UQ	0.069	LOD	0.11	LOQ	mg/Kg	UJ	Lcs
ACETONE	0.27	J	0.46	LOD	0.57	LOQ	mg/Kg	J	Rl
BROMODICHLOROMETHANE	0.069	UQ	0.069	LOD	0.11	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.46	UYQ	0.46	LOD	0.57	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.15		0.069	LOD	0.11	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.064	J	0.069	LOD	0.23	LOQ	mg/Kg	J	Rl
STYRENE	0.069	UQ	0.069	LOD	0.11	LOQ	mg/Kg	UJ	Lcs

Sample ID: **H22-SS02-02** ***Collected:*** **6/15/2016 1:05:00 PM** ***Analysis Type:*** **Initial** ***Dilution:*** **105.7**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.075	UQ	0.075	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
BROMODICHLOROMETHANE	0.075	UQ	0.075	LOD	0.12	LOQ	mg/Kg	UJ	Lcs
CHLOROETHANE	0.50	UYQ	0.50	LOD	0.62	LOQ	mg/Kg	UJ	Lcs
CHLOROMETHANE	0.17		0.075	LOD	0.12	LOQ	mg/Kg	U	Mb
METHYLENE CHLORIDE	0.073	J	0.075	LOD	0.25	LOQ	mg/Kg	J	Rl
STYRENE	0.075	UQ	0.075	LOD	0.12	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA10 MBLK 06231	6/23/2016 2:43:00 PM	METHYLENE CHLORIDE	0.0045 mg/Kg	TB-SO-061516-02

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
TB-SO-061516-02(Initial)	METHYLENE CHLORIDE	0.0081 mg/Kg	0.0081U mg/Kg

Method: **8260C-ME**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK 0628	6/28/2016 9:41:00 AM	CHLOROMETHANE	0.020 mg/Kg	H19-SS01-01 H19-SS02-01 H19-SS02-01 DUP H22-SS01-01 H22-SS01-02 H22-SS02-01 H22-SS02-02

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
H19-SS01-01(Initial)	CHLOROMETHANE	0.16 mg/Kg	0.16U mg/Kg
H19-SS02-01 DUP(Initial)	CHLOROMETHANE	0.19 mg/Kg	0.19U mg/Kg
H19-SS02-01(Initial)	CHLOROMETHANE	0.16 mg/Kg	0.16U mg/Kg
H22-SS01-01(Initial)	CHLOROMETHANE	0.16 mg/Kg	0.16U mg/Kg
H22-SS01-02(Initial)	CHLOROMETHANE	0.14 mg/Kg	0.14U mg/Kg
H22-SS02-01(Initial)	CHLOROMETHANE	0.15 mg/Kg	0.15U mg/Kg
H22-SS02-02(Initial)	CHLOROMETHANE	0.17 mg/Kg	0.17U mg/Kg

Surrogate Outlier Report

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method: 8260C
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
TB-SO-061516-02 (Initial)	TOLUENE-D8	84	85.00-116.00	No Affected Compounds	

Method: 8270D-MOD
Matrix: Soil

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
H22-SS01-02 (Initial)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	122 124 132	44.00-115.00 37.00-122.00 54.00-127.00	All Base/Neutral Target Analytes	J+ (all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40244 (H22-SS01-01 H22-SS01-02 H22-SS02-01 H22-SS02-02)	BENZOIC ACID	0	-	40.00-117.00	-	BENZOIC ACID	J- (all detects) UJ (all non-detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40280 (H19-SS01-01)	1-METHYLNAPHTHALENE	115	-	43.00-111.00	-	1-METHYLNAPHTHALENE	J+(all detects)
LCS-40290 (H19-SS02-01 H19-SS02-01 DUP H22-SS01-01 H22-SS01-02 H22-SS02-01 H22-SS02-02)	1-METHYLNAPHTHALENE	138	-	43.00-111.00	-	1-METHYLNAPHTHALENE	J+(all detects)

Method: 8260C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA10 LCSD 06231 (TB-SO-061516-02)	2-Butanone [MEK]	-	0	51.00-148.00	200 (25.00)	2-Butanone [MEK]	J(all detects) UJ(all non-detects)
VOA10 LCS 062316 VOA10 LCSD 06231 (TB-SO-061516-02)	CIS-1,3-DICHLOROPROPENE STYRENE TRANS-1,3-DICHLOROPROPENE	73.9 73.1 -	73 - 70.6	74.00-126.00 76.00-124.00 71.00-130.00	- - -	CIS-1,3-DICHLOROPROPENE STYRENE TRANS-1,3-DICHLOROPROPENE	J-(all detects) UJ(all non-detects)
VOA10 LCS 062316 (TB-SO-061516-02)	METHYLENE CHLORIDE	130	-	70.00-128.00	-	METHYLENE CHLORIDE	J+(all detects)

Method: 8260C-ME
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS 06281 (H19-SS01-01 H19-SS02-01 H19-SS02-01 DUP H22-SS01-01 H22-SS01-02 H22-SS02-01 H22-SS02-02)	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE CHLOROETHANE STYRENE	76 71.8 26.2 73.4	- - - -	78.00-125.00 75.00-127.00 59.00-139.00 76.00-124.00	- - - -	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE CHLOROETHANE STYRENE	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H19-SS02-01 (Dry)	H19-SS02-01 DUP (Dry)			
BERYLLIUM	0.083	0.021	119	50.00	J (all detects) UJ (all non-detects)

Method: 8260C-ME
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	H19-SS02-01	H19-SS02-01 DUP			
METHYLENE CHLORIDE	0.26 U	0.086	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H19-SS01-01	ARSENIC BERYLLIUM CADMIUM	J J J	1.4 0.051 0.026	1.5 0.19 0.19	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)
H19-SS02-01	BERYLLIUM CADMIUM	J J	0.083 0.055	0.19 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H19-SS02-01 DUP	BERYLLIUM CADMIUM	J J	0.021 0.041	0.19 0.19	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H22-SS01-01	BERYLLIUM LEAD	J J	0.052 3.2	0.18 3.5	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H22-SS01-02	BERYLLIUM LEAD	J J	0.055 3.4	0.18 3.6	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H22-SS02-01	BERYLLIUM	J	0.029	0.18	LOQ	mg/Kg	J (all detects)
H22-SS02-02	BERYLLIUM CADMIUM LEAD	J J J	0.019 0.034 3.8	0.20 0.20 3.9	LOQ LOQ LOQ	mg/Kg mg/Kg mg/Kg	J (all detects)

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H19-SS01-01	THALLIUM	J	0.058	0.15	LOQ	mg/Kg	J (all detects)
H19-SS02-01	THALLIUM	J	0.077	0.16	LOQ	mg/Kg	J (all detects)
H19-SS02-01 DUP	THALLIUM	J	0.097	0.15	LOQ	mg/Kg	J (all detects)
H22-SS01-01	THALLIUM	J	0.092	0.15	LOQ	mg/Kg	J (all detects)
H22-SS01-02	THALLIUM	J	0.12	0.14	LOQ	mg/Kg	J (all detects)
H22-SS02-01	THALLIUM	J	0.056	0.15	LOQ	mg/Kg	J (all detects)
H22-SS02-02	THALLIUM	J	0.048	0.15	LOQ	mg/Kg	J (all detects)

Method: 8260C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TB-SO-061516-02	ACETONE	JZ	0.0013	0.010	LOQ	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606604 **Laboratory: RTILABS**

EDD Filename: EDD_1606604_SEDD_2a_v6 **eQAPP Name: Former_Camp_Hero**

Method: **8260C-ME**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
H19-SS01-01	ACETONE METHYLENE CHLORIDE	J J	0.28 0.061	0.65 0.26	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H19-SS02-01	ACETONE	J	0.23	0.65	LOQ	mg/Kg	J (all detects)
H19-SS02-01 DUP	ACETONE METHYLENE CHLORIDE	J J	0.23 0.086	0.72 0.29	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H22-SS01-01	ACETONE METHYLENE CHLORIDE	J J	0.17 0.064	0.58 0.23	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H22-SS01-02	METHYLENE CHLORIDE	J	0.060	0.23	LOQ	mg/Kg	J (all detects)
H22-SS02-01	ACETONE METHYLENE CHLORIDE	J J	0.27 0.064	0.57 0.23	LOQ LOQ	mg/Kg mg/Kg	J (all detects)
H22-SS02-02	METHYLENE CHLORIDE	J	0.073	0.25	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606936		
Date(s) of Collection:	June 7th, 2016 – June 21st, 2016		
Number/Type Samples & Analyses:	1 groundwater sample for a project-specific list of VOCs, SVOCs, PCBs, and metals		
Data Reviewer:	Naoum Tavantzis AECOM/Baltimore, MD		
Completed:	August 30, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for ground water data included in Sample Delivery Group (SDG) 1606936. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

- ✗ Holding times and sample preservation
- ✗ Laboratory method blank data
- ✓ Field rinsate blank data
- ✓ Trip blank data
- ✗ Laboratory control sample (LCS) recoveries
- ✓ Matrix spike (MS) and/or matrix spike duplicate (MSD) results
- ✓ Surrogate recoveries
- ✓ Laboratory duplicate results
- ✓ Field duplicate results
- ✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR and/or added during manual review of the ADR output:

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J-	The result is an estimated quantity, but the result may be biased low.
R	The result was rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: METALS

Method: 6020A **Matrix: Water**

Sample ID: H17-SB02-GW **Collected:** 6/21/2016 10:40:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	3.3	JG	2.5	LOD	5.0	LOQ	ug/L	J	RI

Method Category: METALS

Method: 6020A-SA **Matrix: Water**

Sample ID: H17-SB02-GW **Collected:** 6/21/2016 10:40:00 AM **Analysis Type:** Initial/TOT **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.62	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI
SILVER	0.71	J	0.50	LOD	1.5	LOQ	ug/L	J	RI

Method Category: SVOA

Method: 8082A **Matrix: Water**

Sample ID: H17-SB02-GW **Collected:** 6/21/2016 10:40:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.042	U	0.042	LOD	0.11	LOQ	ug/L	UJ	TempEst
AROCLOR 1221	0.042	U	0.042	LOD	0.11	LOQ	ug/L	UJ	TempEst
AROCLOR 1232	0.043	U	0.043	LOD	0.21	LOQ	ug/L	UJ	TempEst
AROCLOR 1242	0.042	U	0.042	LOD	0.21	LOQ	ug/L	UJ	TempEst
AROCLOR 1248	0.042	U	0.042	LOD	0.11	LOQ	ug/L	UJ	TempEst
AROCLOR 1254	0.042	U	0.042	LOD	0.21	LOQ	ug/L	UJ	TempEst
AROCLOR 1260	0.042	U	0.042	LOD	0.21	LOQ	ug/L	UJ	TempEst
Aroclor 1262	0.11	U	0.11	LOD	0.21	LOQ	ug/L	UJ	TempEst
Aroclor 1268	0.042	U	0.042	LOD	0.11	LOQ	ug/L	UJ	TempEst

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Water

Sample ID: H17-SB02-GW **Collected:** 6/21/2016 10:40:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
2-METHYLNAPHTHALENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
ACENAPHTHENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
ACENAPHTHYLENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
ANTHRACENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
BENZ(A)ANTHRACENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
BENZO(A)PYRENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
BENZO(B)FLUORANTHENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
BENZO(G,H,I)PERYLENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
BENZO(K)FLUORANTHENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
CHRYSENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
DIBENZO(A,H)ANTHRACENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
FLUORANTHENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
FLUORENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
INDENO(1,2,3-CD)PYRENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
NAPHTHALENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
PHENANTHRENE	0.068	UBH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE
PYRENE	0.068	UH	0.068	LOD	0.068	LOQ	ug/L	UJ	TempEst, StoE

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: H17-SB02-GW **Collected:** 6/21/2016 10:40:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Methylphenol (o-Cresol)	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
3/4-Methylphenol [m/p-Cresol]	5.7	UH	5.7	LOD	11	LOQ	ug/L	UJ	TempEst, StoE
4-Chloroaniline [p-Chloroaniline]	1.1	UH	1.1	LOD	11	LOQ	ug/L	UJ	TempEst, StoE

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **H17-SB02-GW** ***Collected:*** **6/21/2016 10:40:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
2,4,6-TRICHLOROPHENOL	1.1	UH	1.1	LOD	4.5	LOQ	ug/L	UJ	TempEst, StoE
2,4-DICHLOROPHENOL	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
2,4-Dimethyl phenol	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
2,4-DINITROPHENOL	11	UH	11	LOD	28	LOQ	ug/L	UJ	TempEst, StoE
2-CHLOROPHENOL	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
2-NITROPHENOL	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
4,6-DINITRO-2-METHYLPHENOL	1.1	UH	1.1	LOD	11	LOQ	ug/L	UJ	TempEst, StoE
4-CHLORO-3-METHYLPHENOL	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
4-NITROPHENOL	2.8	UH	2.8	LOD	28	LOQ	ug/L	UJ	TempEst, Lcs, Lcs, StoE
BENZOIC ACID	2.8	UYH	2.8	LOD	28	LOQ	ug/L	UJ	TempEst, Lcs, StoE
PENTACHLOROPHENOL	1.1	UYH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
PHENOL	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE

Sample ID: **H17-SB02-GW** ***Collected:*** **6/21/2016 10:40:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
1,2-DICHLOROBENZENE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
1,3-DICHLOROBENZENE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
1,4-DICHLOROBENZENE	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
2,4-DINITROTOLUENE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
2,6-DINITROTOLUENE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
2-CHLORONAPHTHALENE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
2-NITROANILINE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
3,3'-DICHLOROBENZIDINE	2.8	UH	2.8	LOD	23	LOQ	ug/L	UJ	TempEst, StoE
3-NITROANILINE	1.1	UH	1.1	LOD	11	LOQ	ug/L	UJ	TempEst, StoE
4-BROMOPHENYL PHENYL ETHER	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
4-CHLOROPHENYL PHENYL ETHER	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
4-NITROANILINE	2.8	UH	2.8	LOD	11	LOQ	ug/L	UJ	TempEst, StoE
BENZYL ALCOHOL	2.8	UH	2.8	LOD	28	LOQ	ug/L	UJ	TempEst, StoE

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: H17-SB02-GW **Collected:** 6/21/2016 10:40:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
bis(2-chloroethoxy) methane	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
BIS(2-CHLOROETHYL) ETHER	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
BIS(2-CHLOROISOPROPYL)ETHER	2.8	UYZH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
BIS(2-ETHYLHEXYL) PHTHALATE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
Butyl benzyl phthalate	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
CARBAZOLE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
DIBENZOFURAN	1.1	UH	1.1	LOD	4.5	LOQ	ug/L	UJ	TempEst, StoE
DIETHYL PHTHALATE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
DIMETHYL PHTHALATE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
DI-N-BUTYL PHTHALATE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
DI-N-OCTYL PHTHALATE	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
HEXACHLOROBENZENE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
HEXACHLOROBUTADIENE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
HEXACHLOROETHANE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
ISOPHORONE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
NITROBENZENE	2.8	UH	2.8	LOD	3.4	LOQ	ug/L	UJ	TempEst, StoE
N-NITROSODIMETHYLAMINE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, Lcs, StoE
N-Nitrosodi-n-propylamine	2.8	UH	2.8	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE
N-NITROSODIPHENYLAMINE	1.1	UH	1.1	LOD	5.7	LOQ	ug/L	UJ	TempEst, StoE

Method Category: VOA

Method: 8260C **Matrix: Water**

Sample ID: H17-SB02-GW **Collected:** 6/21/2016 10:40:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,1,1-TRICHLOROETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,1,2,2-TETRACHLOROETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,1,2-TRICHLOROETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,1-DICHLOROETHANE	1.0	U	1.0	LOD	2.0	LOQ	ug/L	R	TempRej

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **H17-SB02-GW** ***Collected:*** **6/21/2016 10:40:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,1-DICHLOROETHENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,2,3-TRICHLOROPROPANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UY	2.0	LOD	5.0	LOQ	ug/L	R	TempRej
1,2-DIBROMOETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,2-DICHLOROETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,2-DICHLOROPROPANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
2-Butanone [MEK]	5.0	U	5.0	LOD	10	LOQ	ug/L	R	TempRej
2-HEXANONE	1.0	U	1.0	LOD	2.0	LOQ	ug/L	R	TempRej
ACETONE	18		0.60	LOD	10	LOQ	ug/L	J-	TempRej
BENZENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
BROMODICHLOROMETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	R	TempRej, Lcs
CARBON DISULFIDE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CARBON TETRACHLORIDE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CHLOROBENZENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	R	TempRej, Lcs
CHLOROETHANE	1.0	U	1.0	LOD	2.0	LOQ	ug/L	R	TempRej
CHLOROFORM	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CHLOROMETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CIS-1,2-DICHLOROETHENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CIS-1,3-DICHLOROPROPENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
Dichlorodifluoromethane [Freon-12]	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
ETHYLBENZENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
METHYLENE CHLORIDE	0.60	U	0.60	LOD	5.0	LOQ	ug/L	R	TempRej
STYRENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
TETRACHLOROETHENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
TOLUENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
TRANS-1,2-DICHLOROETHENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
TRANS-1,3-DICHLOROPROPENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
TRICHLOROETHENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
Trichlorofluoromethane [Freon-11]	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
VINYL ACETATE	0.60	U	0.60	LOD	5.0	LOQ	ug/L	R	TempRej

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **H17-SB02-GW** ***Collected:*** **6/21/2016 10:40:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VINYL CHLORIDE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
Xylene (Total)	1.8	U	1.8	LOD	3.0	LOQ	ug/L	R	TempRej

Sample ID: **TB-GW-062116-03** ***Collected:*** **6/21/2016 8:20:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,1,1-TRICHLOROETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,1,2,2-TETRACHLOROETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,1,2-TRICHLOROETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,1-DICHLOROETHANE	1.0	U	1.0	LOD	2.0	LOQ	ug/L	R	TempRej
1,1-DICHLOROETHENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,2,3-TRICHLOROPROPANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UY	2.0	LOD	5.0	LOQ	ug/L	R	TempRej
1,2-DIBROMOETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,2-DICHLOROETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
1,2-DICHLOROPROPANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
2-Butanone [MEK]	5.0	U	5.0	LOD	10	LOQ	ug/L	R	TempRej
2-HEXANONE	1.0	U	1.0	LOD	2.0	LOQ	ug/L	R	TempRej
ACETONE	1.1	J	0.60	LOD	10	LOQ	ug/L	UJ	TempRej, Mb
BENZENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
BROMODICHLOROMETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
BROMOFORM	0.60	UYQZ	0.60	LOD	1.0	LOQ	ug/L	R	TempRej, Lcs
CARBON DISULFIDE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CARBON TETRACHLORIDE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CHLOROBENZENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	R	TempRej, Lcs
CHLOROETHANE	1.0	U	1.0	LOD	2.0	LOQ	ug/L	R	TempRej
CHLOROFORM	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CHLOROMETHANE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CIS-1,2-DICHLOROETHENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
CIS-1,3-DICHLOROPROPENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **TB-GW-062116-03** ***Collected:*** **6/21/2016 8:20:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
Dichlorodifluoromethane [Freon-12]	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
ETHYLBENZENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
METHYLENE CHLORIDE	0.62	J	0.60	LOD	5.0	LOQ	ug/L	UJ	TempRej, Mb
STYRENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
TETRACHLOROETHENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
TOLUENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
TRANS-1,2-DICHLOROETHENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
TRANS-1,3-DICHLOROPROPENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
TRICHLOROETHENE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
Trichlorofluoromethane [Freon-11]	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
VINYL ACETATE	0.60	U	0.60	LOD	5.0	LOQ	ug/L	R	TempRej
VINYL CHLORIDE	0.60	U	0.60	LOD	1.0	LOQ	ug/L	R	TempRej
Xylene (Total)	1.8	U	1.8	LOD	3.0	LOQ	ug/L	R	TempRej

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Mb	Method Blank Contamination
RI	Reporting Limit Trace Value
StoE	Sampling to Extraction Estimation
TempEst	Temperature Estimation
TempRej	Temperature Rejection

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	SR
Temperature	SR
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	N
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**
EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM **Preparation Method: 3510C**
Matrix: Water

Sample ID	Type	Actual	Criteria	Units	Flag
H17-SB02-GW (Initial/TOT)	Sampling To Extraction	8.00	7.00	DAYS	J- (all detects) UJ (all non-detects)

Method: 8270D-MOD **Preparation Method: 3510C**
Matrix: Water

Sample ID	Type	Actual	Criteria	Units	Flag
H17-SB02-GW (Initial/TOT)	Sampling To Extraction	8.00	7.00	DAYS	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project:

Temperature Outliers

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Water

SampleID	Analyte	Temperarture	Criteria	Flag
H17-SB02-GW	All TCLs	22.6 °C	12.00 °C	J- (all detects) UJ (all non-detects)

Method: 8260C
Matrix: Water

SampleID	Analyte	Temperarture	Criteria	Flag
H17-SB02-GW	All TCLs	22.6 °C	6.00 °C	J- (all detects) R (all non-detects)
TB-GW-062116-03	All TCLs	22.6 °C	6.00 °C	J- (all detects) R (all non-detects)

Method: 8270D SIM
Matrix: Water

SampleID	Analyte	Temperarture	Criteria	Flag
H17-SB02-GW	All TCLs	22.6 °C	12.00 °C	J- (all detects) UJ (all non-detects)

Method: 8270D-MOD
Matrix: Water

SampleID	Analyte	Temperarture	Criteria	Flag
H17-SB02-GW	All TCLs	22.6 °C	12.00 °C	J- (all detects) UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA11B MBLK2 070	7/1/2016 7:36:00 PM	ACETONE METHYLENE CHLORIDE	0.57 ug/L 0.65 ug/L	H17-SB02-GW TB-GW-062116-03

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
TB-GW-062116-03(Initial/TOT)	ACETONE	1.1 ug/L	10U ug/L
TB-GW-062116-03(Initial/TOT)	METHYLENE CHLORIDE	0.62 ug/L	5.0U ug/L

Method: **8270D SIM**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40293	8/4/2016 11:32:00 PM	PHENANTHRENE	0.020 ug/L	H17-SB02-GW

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method: 8270D-MOD
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40292 LCSD-40292 (H17-SB02-GW)	4-NITROPHENOL	35.3	-	50.00-130.00	35.01 (25.00)	4-NITROPHENOL	J (all detects) UJ (all non-detects)
LCS-40292 LCSD-40292 (H17-SB02-GW)	BENZOIC ACID N-NITROSODIMETHYLAMINE	10.3 41.8	11.5 46.1	50.00-130.00 50.00-130.00	- -	BENZOIC ACID N-NITROSODIMETHYLAMINE	J-(all detects) UJ(all non-detects)

Method: 8260C
Matrix: Water

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS2 0701 (H17-SB02-GW TB-GW-062116-03)	BROMOFORM CHLORODIBROMOMETHANE	56.1 69.9	- -	66.00-130.00 74.00-126.00	- -	BROMOFORM CHLORODIBROMOMETHANE	J-(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606936 **Laboratory: RTILABS**

EDD Filename: EDD_1606936_SEDD_2a_v4 **eQAPP Name: Former_Camp_Hero**

Method: 6020A

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H17-SB02-GW	SELENIUM	JG	3.3	5.0	LOQ	ug/L	J (all detects)

Method: 6020A-SA

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
H17-SB02-GW	ANTIMONY	JG	0.62	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	0.71	1.5	LOQ	ug/L	

Method: 8260C

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
TB-GW-062116-03	ACETONE	J	1.1	10	LOQ	ug/L	J (all detects)
	METHYLENE CHLORIDE	J	0.62	5.0	LOQ	ug/L	

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606631		
Date(s) of Collection:	June 15th, 2016 – June 17th, 2016		
Number/Type Samples & Analyses:	14 groundwater samples and 5 trip blanks for a project-specific list of VOCs, SVOCs, PAHs, PCBs, and metals		
Data Reviewer:	Zach Neigh AECOM/Baltimore, MD		
Completed:	August 31st, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for ground water data included in Sample Delivery Group (SDG) 1606631. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✗ Laboratory method blank data

NA Field rinsate blank data

✗ Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

NA Laboratory duplicate results

NA Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✓ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

Sample ID: **WDS-SB01-GW** ***Collected:*** **6/16/2016 2:20:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	1.8	J	2.5	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.57	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: **WDS-SB02-GW** ***Collected:*** **6/16/2016 2:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.79	JG	0.50	LOD	1.0	LOQ	ug/L	J	RI
THALLIUM	0.24	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: **WDS-SB03-GW** ***Collected:*** **6/16/2016 3:15:00 PM** ***Analysis Type:*** **Dilution-1/TOT** ***Dilution:*** **50**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	6800		25	LOD	500	LOQ	ug/L	J+	Ms

Sample ID: **WDS-SB03-GW** ***Collected:*** **6/16/2016 3:15:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.90	J	1.0	LOD	1.5	LOQ	ug/L	J	RI
BERYLLIUM	0.34	JG	0.50	LOD	1.0	LOQ	ug/L	J	RI
CALCIUM	34000	X	120	LOD	1000	LOQ	ug/L	J-	Ms
COBALT	2.2	J	0.50	LOD	5.0	LOQ	ug/L	J	RI
COPPER	3.3	JG	0.50	LOD	5.0	LOQ	ug/L	J	RI
NICKEL	6.0	J	0.50	LOD	10	LOQ	ug/L	J	RI
SODIUM	26000	X	120	LOD	500	LOQ	ug/L	J+	Ms
THALLIUM	0.26	J	0.50	LOD	2.0	LOQ	ug/L	J	RI
ZINC	17	J	2.5	LOD	50	LOQ	ug/L	J	RI

Sample ID: **WDS-SB08-GW** ***Collected:*** **6/17/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	2.5	J	2.5	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.96	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

Sample ID: **WDS-SB10-GW** ***Collected:*** **6/15/2016 3:45:00 PM** ***Analysis Type:*** **Dilution-2/TOT** ***Dilution:*** **25**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3500	J	620	LOD	5000	LOQ	ug/L	J	RI
NICKEL	39	J	2.5	LOD	50	LOQ	ug/L	J	RI

Sample ID: **WDS-SB10-GW** ***Collected:*** **6/15/2016 3:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.36	J	0.50	LOD	1.0	LOQ	ug/L	J	RI
SELENIUM	2.4	J	2.5	LOD	5.0	LOQ	ug/L	J	RI
THALLIUM	0.94	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: **WDS-SB12-GW** ***Collected:*** **6/17/2016 12:30:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.32	J	0.50	LOD	1.0	LOQ	ug/L	J	RI
THALLIUM	0.38	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

Sample ID: **WDS-SB13-GW** ***Collected:*** **6/17/2016 12:05:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.37	JG	0.50	LOD	1.0	LOQ	ug/L	J	RI
CHROMIUM	7.3	J	0.50	LOD	10	LOQ	ug/L	J	RI
COBALT	2.3	J	0.50	LOD	5.0	LOQ	ug/L	J	RI
COPPER	4.5	JG	0.50	LOD	5.0	LOQ	ug/L	J	RI
NICKEL	4.6	J	0.50	LOD	10	LOQ	ug/L	J	RI
SELENIUM	1.5	J	2.5	LOD	5.0	LOQ	ug/L	J	RI
ZINC	11	J	2.5	LOD	50	LOQ	ug/L	J	RI

Sample ID: **WDS-SB15-GW** ***Collected:*** **6/17/2016 11:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.48	J	0.50	LOD	2.0	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **METALS**

Method: **6020A-SA** ***Matrix:*** **Water**

Sample ID: **WDS-SB01-GW** ***Collected:*** **6/16/2016 2:20:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.4	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI
SILVER	0.42	J	0.50	LOD	1.5	LOQ	ug/L	J	RI

Sample ID: **WDS-SB02-GW** ***Collected:*** **6/16/2016 2:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.61	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

Sample ID: **WDS-SB03-GW** ***Collected:*** **6/16/2016 3:15:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.40	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

Sample ID: **WDS-SB08-GW** ***Collected:*** **6/17/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.1	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI
SILVER	0.38	J	0.50	LOD	1.5	LOQ	ug/L	J	RI

Sample ID: **WDS-SB12-GW** ***Collected:*** **6/17/2016 12:30:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.34	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

Sample ID: **WDS-SB15-GW** ***Collected:*** **6/17/2016 11:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.30	JG	0.75	LOD	2.5	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA
Method: 8082A **Matrix:** Water

Sample ID: WDS-SB02-GW **Collected:** 6/16/2016 2:45:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr
AROCLOR 1221	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr
AROCLOR 1232	0.038	U	0.038	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1242	0.037	U	0.037	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1248	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr
AROCLOR 1254	0.037	U	0.037	LOD	0.19	LOQ	ug/L	UJ	Surr
AROCLOR 1260	0.037	U	0.037	LOD	0.19	LOQ	ug/L	UJ	Surr
Aroclor 1262	0.093	U	0.093	LOD	0.19	LOQ	ug/L	UJ	Surr
Aroclor 1268	0.037	U	0.037	LOD	0.093	LOQ	ug/L	UJ	Surr

Method Category: SVOA
Method: 8270D SIM **Matrix:** Water

Sample ID: P113-SB03-GW **Collected:** 6/16/2016 1:10:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.050		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
2-METHYLNAPHTHALENE	0.056		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
ACENAPHTHENE	0.032		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
ACENAPHTHYLENE	0.042		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
ANTHRACENE	0.039		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZ(A)ANTHRACENE	0.28		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(A)PYRENE	0.22		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(B)FLUORANTHENE	0.44		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(G,H,I)PERYLENE	0.13		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(K)FLUORANTHENE	0.12		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
CHRYSENE	0.20		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
DIBENZO(A,H)ANTHRACENE	0.023		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
FLUORANTHENE	0.42		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
FLUORENE	0.045		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
INDENO(1,2,3-CD)PYRENE	0.097		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
NAPHTHALENE	0.15		0.019	LOD	0.019	LOQ	ug/L	J-	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D SIM **Matrix:** Water

Sample ID: P113-SB03-GW **Collected:** 6/16/2016 1:10:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	0.31		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
PYRENE	0.56		0.019	LOD	0.019	LOQ	ug/L	J-	Surr

Sample ID: WDS-SB01-GW **Collected:** 6/16/2016 2:20:00 PM **Analysis Type:** Dilution-2/TOT-BASE/ NEUTRAL **Dilution:** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	16	H	0.93	LOD	0.93	LOQ	ug/L	J-	EtoA
2-METHYLNAPHTHALENE	5.5	H	0.93	LOD	0.93	LOQ	ug/L	J-	EtoA
ACENAPHTHENE	20	H	0.93	LOD	0.93	LOQ	ug/L	J-	EtoA
FLUORENE	9.8	H	0.93	LOD	0.93	LOQ	ug/L	J-	EtoA
PHENANTHRENE	7.8	H	0.93	LOD	0.93	LOQ	ug/L	J-	EtoA

Sample ID: WDS-SB01-GW **Collected:** 6/16/2016 2:20:00 PM **Analysis Type:** Dilution-3/TOT-BASE/ NEUTRAL **Dilution:** 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	92	H	3.7	LOD	3.7	LOQ	ug/L	J-	EtoA

Sample ID: WDS-SB01-GW **Collected:** 6/16/2016 2:20:00 PM **Analysis Type:** Initial/TOT-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.72		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
ANTHRACENE	0.78		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZ(A)ANTHRACENE	0.30		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(A)PYRENE	0.073		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(B)FLUORANTHENE	0.16		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(G,H,I)PERYLENE	0.073		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
BENZO(K)FLUORANTHENE	0.051		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
CHRYSENE	0.14		0.019	LOD	0.019	LOQ	ug/L	J-	Surr
DIBENZO(A,H)ANTHRACENE	0.019	U	0.019	LOD	0.019	LOQ	ug/L	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.061		0.019	LOD	0.019	LOQ	ug/L	J-	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: P113-SB02-GW **Collected:** 6/16/2016 12:20:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.4	UQ	9.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.4	UYQZ	9.4	LOD	24	LOQ	ug/L	UJ	Lcs
PHENOL	0.47	UQ	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: P113-SB02-GW **Collected:** 6/16/2016 12:20:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.47	UQ	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: P113-SB03-GW **Collected:** 6/16/2016 1:10:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.5	UQ	9.5	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	12	JYQZ	9.5	LOD	24	LOQ	ug/L	J	RI, Lcs
PHENOL	0.48	UQ	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: P113-SB03-GW **Collected:** 6/16/2016 1:10:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.48	UQ	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB01-GW **Collected:** 6/16/2016 2:20:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.3	UQ	9.3	LOD	23	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.6	JYQZ	9.3	LOD	23	LOQ	ug/L	J	RI, Lcs
PHENOL	0.47	UQ	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB01-GW **Collected:** 6/16/2016 2:20:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **WDS-SB01-GW** ***Collected:*** **6/16/2016 2:20:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,3-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.59	J	0.47	LOD	4.7	LOQ	ug/L	J	RI, Surr
2,6-DINITROTOLUENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	9.3	U	9.3	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.93	U	0.93	LOD	9.3	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
4-NITROANILINE	0.47	U	0.47	LOD	9.3	LOQ	ug/L	UJ	Surr
BENZYL ALCOHOL	0.47	U	0.47	LOD	23	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.47	U	0.47	LOD	0.93	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.47	UZ	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
CARBAZOLE	7.6		0.47	LOD	4.7	LOQ	ug/L	J-	Surr
DIBENZOFURAN	13		0.47	LOD	3.7	LOQ	ug/L	J-	Surr
DIETHYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
HEXACHLOROBENZENE	0.47	U	0.47	LOD	0.93	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.47	U	0.47	LOD	0.93	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
NITROBENZENE	0.47	U	0.47	LOD	2.8	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.47	UQ	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.47	UY	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **WDS-SB02-GW** ***Collected:*** **6/16/2016 2:45:00 PM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.3	UQ	9.3	LOD	23	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	15	JYQZ	9.3	LOD	23	LOQ	ug/L	J	RI, Lcs
PHENOL	0.47	UQ	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB02-GW** ***Collected:*** **6/16/2016 2:45:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	9.3	U	9.3	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.93	U	0.93	LOD	9.3	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
4-NITROANILINE	0.47	U	0.47	LOD	9.3	LOQ	ug/L	UJ	Surr
BENZYL ALCOHOL	0.47	U	0.47	LOD	23	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.47	U	0.47	LOD	0.93	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.47	UZ	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
CARBAZOLE	4.4	J	0.47	LOD	4.7	LOQ	ug/L	J	RI, Surr
DIBENZOFURAN	9.4		0.47	LOD	3.7	LOQ	ug/L	J-	Surr
DIETHYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: WDS-SB02-GW **Collected:** 6/16/2016 2:45:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXACHLOROBENZENE	0.47	U	0.47	LOD	0.93	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.47	U	0.47	LOD	0.93	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
NITROBENZENE	0.47	U	0.47	LOD	2.8	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.47	UQ	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.47	UY	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr

Sample ID: WDS-SB03-GW **Collected:** 6/16/2016 3:15:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.3	UQ	9.3	LOD	23	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	11	JYQZ	9.3	LOD	23	LOQ	ug/L	J	Rl, Lcs
PHENOL	0.47	UQ	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB03-GW **Collected:** 6/16/2016 3:15:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,2-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	9.3	U	9.3	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.93	U	0.93	LOD	9.3	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	2.3	U	2.3	LOD	4.7	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
4-NITROANILINE	0.47	U	0.47	LOD	9.3	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **WDS-SB03-GW** ***Collected:*** **6/16/2016 3:15:00 PM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZYL ALCOHOL	0.47	U	0.47	LOD	23	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.47	U	0.47	LOD	0.93	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.47	UZ	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
CARBAZOLE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DIBENZOFURAN	0.31	J	0.47	LOD	3.7	LOQ	ug/L	J	RI, Surr
DIETHYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
HEXACHLOROBENZENE	0.47	U	0.47	LOD	0.93	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.47	U	0.47	LOD	0.93	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.93	U	0.93	LOD	4.7	LOQ	ug/L	UJ	Surr
NITROBENZENE	0.47	U	0.47	LOD	2.8	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.47	UQ	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	0.47	U	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.47	UY	0.47	LOD	4.7	LOQ	ug/L	UJ	Surr

Sample ID: **WDS-SB08-GW** ***Collected:*** **6/17/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.5	UQ	9.5	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.5	UYQZ	9.5	LOD	24	LOQ	ug/L	UJ	Lcs
PHENOL	0.48	UQ	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB08-GW** ***Collected:*** **6/17/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-MOD** ***Matrix:*** **Water**

Sample ID: **WDS-SB08-GW** ***Collected:*** **6/17/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2-DICHLOROBENZENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
1,3-DICHLOROBENZENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
1,4-DICHLOROBENZENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
2,4-DINITROTOLUENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
2,6-DINITROTOLUENE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
2-CHLORONAPHTHALENE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
2-NITROANILINE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
3,3'-DICHLOROBENZIDINE	9.5	U	9.5	LOD	19	LOQ	ug/L	UJ	Surr
3-NITROANILINE	0.95	U	0.95	LOD	9.5	LOQ	ug/L	UJ	Surr
4-BROMOPHENYL PHENYL ETHER	2.4	U	2.4	LOD	4.8	LOQ	ug/L	UJ	Surr
4-CHLOROPHENYL PHENYL ETHER	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
4-NITROANILINE	0.48	U	0.48	LOD	9.5	LOQ	ug/L	UJ	Surr
BENZYL ALCOHOL	0.48	U	0.48	LOD	24	LOQ	ug/L	UJ	Surr
bis(2-chloroethoxy) methane	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROETHYL) ETHER	0.48	U	0.48	LOD	0.95	LOQ	ug/L	UJ	Surr
BIS(2-CHLOROISOPROPYL)ETHER	0.48	UZ	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
BIS(2-ETHYLHEXYL) PHTHALATE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
Butyl benzyl phthalate	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
CARBAZOLE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
DIBENZOFURAN	0.48	U	0.48	LOD	3.8	LOQ	ug/L	UJ	Surr
DIETHYL PHTHALATE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
DIMETHYL PHTHALATE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
DI-N-BUTYL PHTHALATE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
DI-N-OCTYL PHTHALATE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
HEXACHLOROBENZENE	0.48	U	0.48	LOD	0.95	LOQ	ug/L	UJ	Surr
HEXACHLOROBUTADIENE	0.48	U	0.48	LOD	0.95	LOQ	ug/L	UJ	Surr
HEXACHLOROETHANE	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
ISOPHORONE	0.95	U	0.95	LOD	4.8	LOQ	ug/L	UJ	Surr
NITROBENZENE	0.48	U	0.48	LOD	2.9	LOQ	ug/L	UJ	Surr
N-NITROSODIMETHYLAMINE	0.48	UQ	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs, Surr
N-Nitrosodi-n-propylamine	0.48	U	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr
N-NITROSODIPHENYLAMINE	0.48	UY	0.48	LOD	4.8	LOQ	ug/L	UJ	Surr

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix:** Water

Sample ID: WDS-SB10-GW **Collected:** 6/15/2016 3:45:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.4	UQ	9.4	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.4	UYQZ	9.4	LOD	24	LOQ	ug/L	UJ	Lcs
PHENOL	0.47	UQ	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB10-GW **Collected:** 6/15/2016 3:45:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.47	UQ	0.47	LOD	4.7	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB12-GW **Collected:** 6/17/2016 12:30:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.8	UQ	9.8	LOD	25	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.8	UYQZ	9.8	LOD	25	LOQ	ug/L	UJ	Lcs
PHENOL	0.49	UQ	0.49	LOD	4.9	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB12-GW **Collected:** 6/17/2016 12:30:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.49	UQ	0.49	LOD	4.9	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB13-GW **Collected:** 6/17/2016 12:05:00 PM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.5	UQ	9.5	LOD	24	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.5	UYQZ	9.5	LOD	24	LOQ	ug/L	UJ	Lcs
PHENOL	0.48	UQ	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB13-GW **Collected:** 6/17/2016 12:05:00 PM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.48	UQ	0.48	LOD	4.8	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-MOD **Matrix: Water**

Sample ID: WDS-SB15-GW **Collected:** 6/17/2016 11:00:00 AM **Analysis Type:** Initial/TOT-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-NITROPHENOL	9.9	UQ	9.9	LOD	25	LOQ	ug/L	UJ	Lcs
BENZOIC ACID	9.9	UYQZ	9.9	LOD	25	LOQ	ug/L	UJ	Lcs
PHENOL	0.50	UQ	0.50	LOD	5.0	LOQ	ug/L	UJ	Lcs

Sample ID: WDS-SB15-GW **Collected:** 6/17/2016 11:00:00 AM **Analysis Type:** Initial/TOT-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.50	UQ	0.50	LOD	5.0	LOQ	ug/L	UJ	Lcs

Method Category: VOA

Method: 8260C **Matrix: Water**

Sample ID: P113-SB01-GW **Collected:** 6/16/2016 11:45:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	3.2	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

Sample ID: P113-SB02-GW **Collected:** 6/16/2016 12:20:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	2.4	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

Sample ID: P113-SB03-GW **Collected:** 6/16/2016 1:10:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **P113-SB03-GW** ***Collected:*** **6/16/2016 1:10:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	5.1	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

Sample ID: **TB-GW-061516-01** ***Collected:*** **6/15/2016 8:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	3.2	J	0.60	LOD	10	LOQ	ug/L	U	Mb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

Sample ID: **TB-GW-061616-01** ***Collected:*** **6/16/2016 8:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ACETONE	2.0	JY	0.60	LOD	10	LOQ	ug/L	J	Rl
BROMODICHLOROMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	0.72	JBYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs, Mb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.59	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs

Sample ID: **TB-GW-061616-02** ***Collected:*** **6/16/2016 8:10:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ACETONE	4.5	JY	0.60	LOD	10	LOQ	ug/L	J	Rl

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **TB-GW-061616-02** ***Collected:*** **6/16/2016 8:10:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMODICHLOROMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	0.72	JBYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs, Mb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.47	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs

Sample ID: **TB-GW-061716-01** ***Collected:*** **6/17/2016 8:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
ACETONE	3.4	JY	0.60	LOD	10	LOQ	ug/L	J	RI
BROMODICHLOROMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
BROMOFORM	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLORODIBROMOMETHANE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROMETHANE	0.73	JBYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs, Mb
CIS-1,3-DICHLOROPROPENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
METHYLENE CHLORIDE	0.41	J	0.60	LOD	5.0	LOQ	ug/L	U	Mb
STYRENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Trichlorofluoromethane [Freon-11]	0.60	UYQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	1.8	UQ	1.8	LOD	3.0	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB01-GW** ***Collected:*** **6/16/2016 2:20:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	3.2	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **WDS-SB01-GW** ***Collected:*** **6/16/2016 2:20:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.56	J	0.60	LOD	1.0	LOQ	ug/L	J	Rl
Xylene (Total)	2.6	J	1.8	LOD	3.0	LOQ	ug/L	J	Rl

Sample ID: **WDS-SB02-GW** ***Collected:*** **6/16/2016 2:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	2.5	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
Xylene (Total)	2.7	J	1.8	LOD	3.0	LOQ	ug/L	J	Rl

Sample ID: **WDS-SB03-GW** ***Collected:*** **6/16/2016 3:15:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	2.2	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB08-GW** ***Collected:*** **6/17/2016 10:55:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	7.6	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB10-GW** ***Collected:*** **6/15/2016 3:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	5.0	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method Category: **VOA**

Method: **8260C** ***Matrix:*** **Water**

Sample ID: **WDS-SB10-GW** ***Collected:*** **6/15/2016 3:45:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB12-GW** ***Collected:*** **6/17/2016 12:30:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	16		0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB13-GW** ***Collected:*** **6/17/2016 12:05:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	1.8	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

Sample ID: **WDS-SB15-GW** ***Collected:*** **6/17/2016 11:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	2.0	UYQ	2.0	LOD	5.0	LOQ	ug/L	UJ	Lcs
ACETONE	4.4	J	0.60	LOD	10	LOQ	ug/L	U	Mb, Tb
BROMOFORM	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs
CHLOROBENZENE	0.60	UQ	0.60	LOD	1.0	LOQ	ug/L	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
EtoA	Extraction to Analysis Estimation
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation
Tb	Trip Blank Contamination

* denotes a non-reportable result

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	N
Field Triplicates	N
Field Blanks	SR

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM **Preparation Method: 3510C**

Matrix: Water

Sample ID	Type	Actual	Criteria	Units	Flag
WDS-SB01-GW (Dilution-2/TOT)	Extraction To Analysis	44.00	40.00	DAYS	J- (all detects)
WDS-SB01-GW (Dilution-3/TOT)		45.00	40.00	DAYS	UJ (all non-detects)

Project Name and Number: - USACE Project:

Method Blank Outlier Report

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VOA10 MBLK 06281A	6/28/2016 10:54:00 AM	ACETONE	1.8 ug/L	P113-SB01-GW P113-SB02-GW P113-SB03-GW TB-GW-061516-01 WDS-SB01-GW WDS-SB02-GW WDS-SB03-GW WDS-SB08-GW WDS-SB10-GW WDS-SB12-GW WDS-SB13-GW WDS-SB15-GW
VOA11B MBLK2 062	6/27/2016 3:17:00 AM	CHLOROMETHANE METHYLENE CHLORIDE	0.73 ug/L 0.56 ug/L	TB-GW-061616-01 TB-GW-061616-02 TB-GW-061716-01

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
P113-SB01-GW(Initial/TOT)	ACETONE	3.2 ug/L	10U ug/L
P113-SB02-GW(Initial/TOT)	ACETONE	2.4 ug/L	10U ug/L
P113-SB03-GW(Initial/TOT)	ACETONE	5.1 ug/L	10U ug/L
TB-GW-061516-01(Initial/TOT)	ACETONE	3.2 ug/L	10U ug/L
TB-GW-061616-01(Initial/TOT)	CHLOROMETHANE	0.72 ug/L	1.0U ug/L
TB-GW-061616-01(Initial/TOT)	METHYLENE CHLORIDE	0.59 ug/L	5.0U ug/L
TB-GW-061616-02(Initial/TOT)	CHLOROMETHANE	0.72 ug/L	1.0U ug/L
TB-GW-061616-02(Initial/TOT)	METHYLENE CHLORIDE	0.47 ug/L	5.0U ug/L
TB-GW-061716-01(Initial/TOT)	CHLOROMETHANE	0.73 ug/L	1.0U ug/L
TB-GW-061716-01(Initial/TOT)	METHYLENE CHLORIDE	0.41 ug/L	5.0U ug/L
WDS-SB01-GW(Initial/TOT)	ACETONE	3.2 ug/L	10U ug/L
WDS-SB02-GW(Initial/TOT)	ACETONE	2.5 ug/L	10U ug/L
WDS-SB03-GW(Initial/TOT)	ACETONE	2.2 ug/L	10U ug/L
WDS-SB08-GW(Initial/TOT)	ACETONE	7.6 ug/L	10U ug/L
WDS-SB10-GW(Initial/TOT)	ACETONE	5.0 ug/L	10U ug/L
WDS-SB12-GW(Initial/TOT)	ACETONE	16 ug/L	16U ug/L
WDS-SB13-GW(Initial/TOT)	ACETONE	1.8 ug/L	10U ug/L
WDS-SB15-GW(Initial/TOT)	ACETONE	4.4 ug/L	10U ug/L

Surrogate Outlier Report

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: 8082A
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
WDS-SB02-GW (Initial/TOT)	TETRACHLORO-M-XYLENE	25.3	40.00-135.00	All Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8260C
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
TB-GW-061616-01 (Initial/TOT)	TOLUENE-D8	87.3	89.00-112.00	No Affected Compounds	
TB-GW-061616-02 (Initial/TOT)	TOLUENE-D8	87.4	89.00-112.00	No Affected Compounds	
TB-GW-061716-01 (Initial/TOT)	TOLUENE-D8	86.6	89.00-112.00	No Affected Compounds	

Method: 8270D SIM
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
P113-SB03-GW (Initial/TOT)	Terphenyl-d14	44.4	50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB01-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	24.6 31.5 40.9	44.00-119.00 44.00-120.00 50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Method: 8270D-MOD
Matrix: Water

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
P113-SB02-GW (Initial/TOT)	PHENOL-D5	17.7	30.00-130.00	No Affected Compounds	
P113-SB03-GW (Initial/TOT)	PHENOL-D5 Terphenyl-d14	26.8 39.9	30.00-130.00 50.00-134.00	No Affected Compounds	
WDS-SB01-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5 Terphenyl-d14	28.2 29.9 15.5 42.6	44.00-119.00 44.00-120.00 30.00-130.00 50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB02-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5 Terphenyl-d14	32.8 41.4 20.4 24.8	44.00-119.00 44.00-120.00 30.00-130.00 50.00-134.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB03-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5	39.6 40.2 18.2	44.00-119.00 44.00-120.00 30.00-130.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)
WDS-SB08-GW (Initial/TOT)	2-FLUOROBIPHENYL Nitrobenzene-d5 PHENOL-D5	32.2 32.7 15.4	44.00-119.00 44.00-120.00 30.00-130.00	All Base/Neutral Target Analytes	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Surrogate Outlier Report

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Water**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
WDS-SB10-GW (Initial/TOT)	PHENOL-D5	17.7	30.00-130.00	No Affected Compounds	
WDS-SB12-GW (Initial/TOT)	PHENOL-D5	19	30.00-130.00	No Affected Compounds	
WDS-SB13-GW (Initial/TOT)	PHENOL-D5	23.2	30.00-130.00	No Affected Compounds	
WDS-SB15-GW (Initial/TOT)	PHENOL-D5	17.5	30.00-130.00	No Affected Compounds	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: **6020A**
Matrix: **Water**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
WDS-SB03-GWMS (Total) (WDS-SB03-GW)	CALCIUM	43.5	-	87.00-118.00	-	CALCIUM	J- (all detects) UJ (all non-detects)
WDS-SB03-GWMS (Total) WDS-SB03-GWMSD (Total) (WDS-SB03-GW)	ALUMINUM SODIUM	452 -	495 127	84.00-117.00 85.00-117.00	- -	ALUMINUM SODIUM	J+(all detects)

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D-MOD**
Matrix: **Water**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40220 LCSD-40220 (P113-SB02-GW P113-SB03-GW WDS-SB01-GW WDS-SB02-GW WDS-SB03-GW WDS-SB08-GW WDS-SB10-GW WDS-SB12-GW WDS-SB13-GW WDS-SB15-GW)	4-NITROPHENOL BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	30 - 34.9 31.6	35.3 47.9 36.2 -	50.00-130.00 50.00-130.00 50.00-130.00 34.00-121.00	- - - -	4-NITROPHENOL BENZOIC ACID N-NITROSODIMETHYLAMINE PHENOL	J- (all detects) UJ (all non-detects)

Method: **8260C**
Matrix: **Water**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS2 0626 VOA11B LCSD2 062 (TB-GW-061616-01 TB-GW-061616-02 TB-GW-061716-01)	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE STYRENE Trichlorofluoromethane [Freon-11] Xylene (Total)	- 78.8 58.4 65.2 67.8 - - -	73.1 77.2 55.1 62.5 64.5 74.9 62.6 78.2	78.00-124.00 79.00-125.00 66.00-130.00 74.00-126.00 75.00-124.00 78.00-123.00 65.00-141.00 79.00-121.00	- - - - - - - -	1,1,1,2-TETRACHLOROETHANE BROMODICHLOROMETHANE BROMOFORM CHLORODIBROMOMETHANE CIS-1,3-DICHLOROPROPENE STYRENE Trichlorofluoromethane [Freon-11] Xylene (Total)	J-(all detects) UJ(all non-detects)
VOA11B LCS2 0626 VOA11B LCSD2 062 (TB-GW-061616-01 TB-GW-061616-02 TB-GW-061716-01)	CHLOROMETHANE	151	142	50.00-139.00	-	CHLOROMETHANE	J+(all detects)
VOA10 LCSD 06281 (P113-SB01-GW P113-SB02-GW P113-SB03-GW TB-GW-061516-01 WDS-SB01-GW WDS-SB02-GW WDS-SB03-GW WDS-SB08-GW WDS-SB10-GW WDS-SB12-GW WDS-SB13-GW WDS-SB15-GW)	1,2-DIBROMO-3-CHLOROPROPAN BROMOFORM CHLOROBENZENE	- - -	60.5 64.8 81.1	62.00-128.00 66.00-130.00 82.00-118.00	- - -	1,2-DIBROMO-3-CHLOROPROPA BROMOFORM CHLOROBENZENE	J-(all detects) UJ(all non-detects)

Trip Blank Outlier Report

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: **8260C**
Matrix: **Water**

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-GW-061516-01(Initial/TOT)	6/15/2016 8:00:00 AM	ACETONE	3.2 ug/L	WDS-SB10-GW
TB-GW-061616-01(Initial/TOT)	6/16/2016 8:00:00 AM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	2 ug/L 0.72 ug/L 0.59 ug/L	P113-SB02-GW WDS-SB01-GW WDS-SB02-GW WDS-SB03-GW
TB-GW-061616-02(Initial/TOT)	6/16/2016 8:10:00 AM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	4.5 ug/L 0.72 ug/L 0.47 ug/L	P113-SB01-GW P113-SB03-GW
TB-GW-061716-01(Initial/TOT)	6/17/2016 8:00:00 AM	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	3.4 ug/L 0.73 ug/L 0.41 ug/L	WDS-SB08-GW WDS-SB12-GW WDS-SB13-GW WDS-SB15-GW

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
P113-SB01-GW(Initial/TOT)	ACETONE	3.2 ug/L	10U ug/L
P113-SB02-GW(Initial/TOT)	ACETONE	2.4 ug/L	10U ug/L
P113-SB03-GW(Initial/TOT)	ACETONE	5.1 ug/L	10U ug/L
WDS-SB01-GW(Initial/TOT)	ACETONE	3.2 ug/L	10U ug/L
WDS-SB02-GW(Initial/TOT)	ACETONE	2.5 ug/L	10U ug/L
WDS-SB03-GW(Initial/TOT)	ACETONE	2.2 ug/L	10U ug/L
WDS-SB08-GW(Initial/TOT)	ACETONE	7.6 ug/L	10U ug/L
WDS-SB10-GW(Initial/TOT)	ACETONE	5.0 ug/L	10U ug/L
WDS-SB12-GW(Initial/TOT)	ACETONE	16 ug/L	16U ug/L
WDS-SB13-GW(Initial/TOT)	ACETONE	1.8 ug/L	10U ug/L
WDS-SB15-GW(Initial/TOT)	ACETONE	4.4 ug/L	10U ug/L

Reporting Limit Outliers

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: 6020A

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
WDS-SB01-GW	SELENIUM	J	1.8	5.0	LOQ	ug/L	J (all detects)
	THALLIUM	J	0.57	2.0	LOQ	ug/L	
WDS-SB02-GW	BERYLLIUM	JG	0.79	1.0	LOQ	ug/L	J (all detects)
	THALLIUM	J	0.24	2.0	LOQ	ug/L	
WDS-SB03-GW	ARSENIC	J	0.90	1.5	LOQ	ug/L	J (all detects)
	BERYLLIUM	JG	0.34	1.0	LOQ	ug/L	
	COBALT	J	2.2	5.0	LOQ	ug/L	
	COPPER	JG	3.3	5.0	LOQ	ug/L	
	NICKEL	J	6.0	10	LOQ	ug/L	
	THALLIUM	J	0.26	2.0	LOQ	ug/L	
	ZINC	J	17	50	LOQ	ug/L	
WDS-SB08-GW	SELENIUM	J	2.5	5.0	LOQ	ug/L	J (all detects)
	THALLIUM	J	0.96	2.0	LOQ	ug/L	
WDS-SB10-GW	CADMIUM	J	0.36	1.0	LOQ	ug/L	J (all detects)
	CALCIUM	J	3500	5000	LOQ	ug/L	
	NICKEL	J	39	50	LOQ	ug/L	
	SELENIUM	J	2.4	5.0	LOQ	ug/L	
	THALLIUM	J	0.94	2.0	LOQ	ug/L	
WDS-SB12-GW	CADMIUM	J	0.32	1.0	LOQ	ug/L	J (all detects)
	THALLIUM	J	0.38	2.0	LOQ	ug/L	
WDS-SB13-GW	BERYLLIUM	JG	0.37	1.0	LOQ	ug/L	J (all detects)
	CHROMIUM	J	7.3	10	LOQ	ug/L	
	COBALT	J	2.3	5.0	LOQ	ug/L	
	COPPER	JG	4.5	5.0	LOQ	ug/L	
	NICKEL	J	4.6	10	LOQ	ug/L	
	SELENIUM	J	1.5	5.0	LOQ	ug/L	
	ZINC	J	11	50	LOQ	ug/L	
WDS-SB15-GW	THALLIUM	J	0.48	2.0	LOQ	ug/L	J (all detects)

Method: 6020A-SA

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
WDS-SB01-GW	ANTIMONY	JG	1.4	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	0.42	1.5	LOQ	ug/L	
WDS-SB02-GW	ANTIMONY	JG	0.61	2.5	LOQ	ug/L	J (all detects)
WDS-SB03-GW	ANTIMONY	JG	0.40	2.5	LOQ	ug/L	J (all detects)
WDS-SB08-GW	ANTIMONY	JG	1.1	2.5	LOQ	ug/L	J (all detects)
	SILVER	J	0.38	1.5	LOQ	ug/L	
WDS-SB12-GW	ANTIMONY	JG	0.34	2.5	LOQ	ug/L	J (all detects)
WDS-SB15-GW	ANTIMONY	JG	0.30	2.5	LOQ	ug/L	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: 1606631 **Laboratory: RTILABS**

EDD Filename: EDD_1606631_SEDD_2a_v7_rev **eQAPP Name: Former_Camp_Hero**

Method: 8260C

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
P113-SB01-GW	ACETONE	J	3.2	10	LOQ	ug/L	J (all detects)
P113-SB02-GW	ACETONE	J	2.4	10	LOQ	ug/L	J (all detects)
P113-SB03-GW	ACETONE	J	5.1	10	LOQ	ug/L	J (all detects)
TB-GW-061516-01	ACETONE	J	3.2	10	LOQ	ug/L	J (all detects)
TB-GW-061616-01	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	JY JBYQ J	2.0 0.72 0.59	10 1.0 5.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
TB-GW-061616-02	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	JY JBYQ J	4.5 0.72 0.47	10 1.0 5.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
TB-GW-061716-01	ACETONE CHLOROMETHANE METHYLENE CHLORIDE	JY JBYQ J	3.4 0.73 0.41	10 1.0 5.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
WDS-SB01-GW	ACETONE TOLUENE Xylene (Total)	J J J	3.2 0.56 2.6	10 1.0 3.0	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
WDS-SB02-GW	ACETONE Xylene (Total)	J J	2.5 2.7	10 3.0	LOQ LOQ	ug/L ug/L	J (all detects)
WDS-SB03-GW	ACETONE	J	2.2	10	LOQ	ug/L	J (all detects)
WDS-SB08-GW	ACETONE	J	7.6	10	LOQ	ug/L	J (all detects)
WDS-SB10-GW	ACETONE	J	5.0	10	LOQ	ug/L	J (all detects)
WDS-SB13-GW	ACETONE	J	1.8	10	LOQ	ug/L	J (all detects)
WDS-SB15-GW	ACETONE	J	4.4	10	LOQ	ug/L	J (all detects)

Method: 8270D-MOD

Matrix: Water

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
P113-SB03-GW	BENZOIC ACID	JYQZ	12	24	LOQ	ug/L	J (all detects)
WDS-SB01-GW	2,4-DINITROTOLUENE BENZOIC ACID	J JYQZ	0.59 9.6	4.7 23	LOQ LOQ	ug/L ug/L	J (all detects)
WDS-SB02-GW	BENZOIC ACID CARBAZOLE	JYQZ J	15 4.4	23 4.7	LOQ LOQ	ug/L ug/L	J (all detects)
WDS-SB03-GW	BENZOIC ACID DIBENZOFURAN	JYQZ J	11 0.31	23 3.7	LOQ LOQ	ug/L ug/L	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606389		
Date(s) of Collection:	June 9th, 2016		
Number/Type Samples & Analyses:	18 soil samples for a project-specific list of SVOCs by SIM and Metals		
Senior Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 26th, 2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606389. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

Review of ADR output for the following QC parameters:

✗ Holding times and sample preservation

✓ Laboratory method blank data

NA Field rinsate blank data

NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✓ Surrogate recoveries

NA Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

✗ Review of COC documents to verify sample identities

✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.

✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.

✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR and ADR Discrepancy reports.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Review Summary

Lab Reporting Batch ID: 1606389 **Laboratory: RTILABS**

EDD Filename: EDD_1606389_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Data Review Summary

Lab Reporting Batch ID: 1606389 **Laboratory: RTILABS**

EDD Filename: EDD_1606389_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	SR
Surrogate/Tracer Spikes	A
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	N

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 1606389 **Laboratory: RTILABS**

EDD Filename: EDD_1606389_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 8270D SIM **Preparation Method: 3550B**

Matrix: Soil

Sample ID	Type	Actual	Criteria	Units	Flag
BG01-SS05-01 (Dilution-3)	Extraction To Analysis	42.00	40.00	DAYS	J- (all detects) UJ (all non-detects)

Project Name and Number: - USACE Project:

Method Blank Outlier Report

Lab Reporting Batch ID: 1606389 **Laboratory: RTILABS**

EDD Filename: EDD_1606389_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**
Matrix: **Soil**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
MB-40157	7/13/2016 12:22:56 PM	MANGANESE	0.19 mg/Kg	BG01-SB01-05 BG01-SB01-06 BG01-SB02-05 BG01-SB02-06 BG01-SB03-05 BG01-SB03-08 BG01-SB04-04 BG01-SB04-05 BG01-SB04-05 DUP BG01-SS01-01 BG01-SS02-01 BG01-SS03-01 BG01-SS04-01
MB-40215	7/1/2016 12:04:54 PM	POTASSIUM SILVER	4.5 mg/Kg 0.063 mg/Kg	BG01-SS05-01 BG01-SS06-01 BG01-SS07-01 BG01-SS07-01 DUP BG01-SS08-01

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606389 **Laboratory: RTILABS**

EDD Filename: EDD_1606389_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
BG01-SB02-05MS (Dry) BG01-SB02-05MSD (Dry) (BG01-SB02-05)	ALUMINUM BARIUM CHROMIUM IRON MAGNESIUM MANGANESE VANADIUM ZINC	- 75.3 84.2 -112 61.4 52.5 75.9 75.8	26.9 79.4 - -202 38.8 47.4 76.2 76.8	74.00-119.00 83.00-113.00 85.00-113.00 81.00-118.00 78.00-115.00 84.00-114.00 82.00-114.00 82.00-113.00	- - - - - - - -	ALUMINUM BARIUM CHROMIUM IRON MAGNESIUM MANGANESE VANADIUM ZINC	J- (all detects) UJ (all non-detects)
BG01-SB02-05MS (Dry) BG01-SB02-05MSD (Dry) (BG01-SB02-05)	CALCIUM	173	118	81.00-116.00	-	CALCIUM	J+(all detects)

Method: 8270D SIM
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
BG01-SB02-05MSD (BG01-SB02-05)	BENZO(K)FLUORANTHENE	-	-	56.00-123.00	33.07 (25.00)	BENZO(K)FLUORANTHENE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606389 **Laboratory: RTILABS**

EDD Filename: EDD_1606389_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: **8270D SIM**
Matrix: **Soil**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCS-40172 (BG01-SB01-05 BG01-SB01-06 BG01-SB02-05 BG01-SB02-06 BG01-SB03-05 BG01-SB03-08 BG01-SB04-04 BG01-SB04-05 BG01-SB04-05 DUP BG01-SS01-01 BG01-SS02-01 BG01-SS03-01 BG01-SS04-01 BG01-SS05-01 BG01-SS06-01 BG01-SS07-01)	BENZO(G,H,I)PERYLENE	130	-	49.00-127.00	-	BENZO(G,H,I)PERYLENE	J+ (all detects)

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606389 **Laboratory: RTILABS**

EDD Filename: EDD_1606389_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	BG01-SS07-01 (Dry)	BG01-SS07-01 DUP (Dry)			
ARSENIC	0.70	1.2	53	50.00	J (all detects)
BERYLLIUM	0.17	0.051	108	50.00	UJ (all non-detects)

Method: 6020A-TL
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	BG01-SB04-05 (Dry)	BG01-SB04-05 DUP (Dry)			
THALLIUM	0.17	0.089	63	50.00	J(all detects) UJ(all non-detects)

Method: 8270D SIM
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	BG01-SS07-01	BG01-SS07-01 DUP			
2-METHYLNAPHTHALENE	0.00073 U	0.00087	200	50.00	J(all detects) UJ(all non-detects)
BENZO(G,H,I)PERYLENE	0.00073 UYQ	0.00084	200	50.00	
NAPHTHALENE	0.00073 U	0.00099	200	50.00	

Project Name and Number: - USACE Project: USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606389 **Laboratory: RTILABS**

EDD Filename: EDD_1606389_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: **6010C**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
BG01-SB01-05	ARSENIC	J	1.1	1.5	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.058	0.19	LOQ	mg/Kg	
	LEAD	J	2.1	3.8	LOQ	mg/Kg	
BG01-SB01-06	BERYLLIUM	J	0.060	0.19	LOQ	mg/Kg	J (all detects)
	LEAD	J	2.4	3.9	LOQ	mg/Kg	
BG01-SB02-05	BERYLLIUM	J	0.023	0.18	LOQ	mg/Kg	J (all detects)
	LEAD	J	3.3	3.7	LOQ	mg/Kg	
BG01-SB02-06	ARSENIC	J	0.75	1.5	LOQ	mg/Kg	J (all detects)
	LEAD	J	2.5	3.6	LOQ	mg/Kg	
BG01-SB03-05	BERYLLIUM	J	0.11	0.20	LOQ	mg/Kg	J (all detects)
	LEAD	J	3.7	4.0	LOQ	mg/Kg	
BG01-SB03-08	LEAD	J	1.8	3.7	LOQ	mg/Kg	J (all detects)
	NICKEL	J	2.7	3.7	LOQ	mg/Kg	
BG01-SB04-04	ANTIMONY	J	0.72	0.78	LOQ	mg/Kg	J (all detects)
	BARIUM	J	5.3	7.8	LOQ	mg/Kg	
	BERYLLIUM	J	0.032	0.20	LOQ	mg/Kg	
	COBALT	J	0.70	0.78	LOQ	mg/Kg	
	LEAD	J	0.61	3.9	LOQ	mg/Kg	
	NICKEL	J	1.6	3.9	LOQ	mg/Kg	
	ZINC	J	3.0	3.9	LOQ	mg/Kg	
BG01-SB04-05	ARSENIC	J	0.82	1.6	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.031	0.19	LOQ	mg/Kg	
	LEAD	J	1.5	3.9	LOQ	mg/Kg	
BG01-SB04-05 DUP	ARSENIC	J	0.85	1.5	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.029	0.19	LOQ	mg/Kg	
	LEAD	J	1.5	3.8	LOQ	mg/Kg	
	NICKEL	J	3.6	3.8	LOQ	mg/Kg	
BG01-SS01-01	ARSENIC	J	0.88	1.5	LOQ	mg/Kg	J (all detects)
	SILVER	J	0.066	0.74	LOQ	mg/Kg	
BG01-SS02-01	ARSENIC	J	1.4	1.5	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.055	0.18	LOQ	mg/Kg	
	LEAD	J	3.1	3.6	LOQ	mg/Kg	
BG01-SS03-01	ARSENIC	J	1.0	1.5	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.11	0.18	LOQ	mg/Kg	
	LEAD	J	3.3	3.6	LOQ	mg/Kg	
BG01-SS04-01	ARSENIC	J	1.2	1.4	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.063	0.18	LOQ	mg/Kg	
BG01-SS05-01	ARSENIC	J	1.3	1.7	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.093	0.21	LOQ	mg/Kg	
	CADMIUM	J	0.047	0.21	LOQ	mg/Kg	
	NICKEL	J	4.2	4.3	LOQ	mg/Kg	
BG01-SS07-01	ARSENIC	J	0.70	1.4	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.17	0.18	LOQ	mg/Kg	
	CADMIUM	J	0.032	0.18	LOQ	mg/Kg	
	LEAD	J	3.2	3.6	LOQ	mg/Kg	
	NICKEL	J	2.9	3.6	LOQ	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: 1606389 **Laboratory: RTILABS**

EDD Filename: EDD_1606389_SEDD_2a_v6_rev **eQAPP Name: Former_Camp_Hero**

Method: 6010C

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BG01-SS07-01 DUP	ANTIMONY	J	0.54	0.75	LOQ	mg/Kg	J (all detects)
	ARSENIC	J	1.2	1.5	LOQ	mg/Kg	
	BERYLLIUM	J	0.051	0.19	LOQ	mg/Kg	
	CADMIUM	J	0.036	0.19	LOQ	mg/Kg	
	COBALT	J	0.74	0.75	LOQ	mg/Kg	
	NICKEL	J	2.1	3.7	LOQ	mg/Kg	
BG01-SS08-01	ANTIMONY	J	0.45	0.77	LOQ	mg/Kg	J (all detects)
	BERYLLIUM	J	0.051	0.19	LOQ	mg/Kg	
	CADMIUM	J	0.044	0.19	LOQ	mg/Kg	
	COBALT	J	0.57	0.77	LOQ	mg/Kg	
	LEAD	J	3.1	3.9	LOQ	mg/Kg	
	NICKEL	J	1.9	3.9	LOQ	mg/Kg	

Method: 6020A-TL

Matrix: Soil

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
BG01-SB01-05	THALLIUM	JG	0.096	0.15	LOQ	mg/Kg	J (all detects)
BG01-SB01-06	THALLIUM	JG	0.081	0.15	LOQ	mg/Kg	J (all detects)
BG01-SB02-05	THALLIUM	JG	0.070	0.14	LOQ	mg/Kg	J (all detects)
BG01-SB02-06	THALLIUM	JG	0.060	0.16	LOQ	mg/Kg	J (all detects)
BG01-SB03-05	THALLIUM	JG	0.11	0.16	LOQ	mg/Kg	J (all detects)
BG01-SB03-08	THALLIUM	JG	0.066	0.15	LOQ	mg/Kg	J (all detects)
BG01-SB04-05 DUP	THALLIUM	J	0.089	0.15	LOQ	mg/Kg	J (all detects)
BG01-SS01-01	THALLIUM	JG	0.066	0.14	LOQ	mg/Kg	J (all detects)
BG01-SS02-01	THALLIUM	JG	0.062	0.15	LOQ	mg/Kg	J (all detects)
BG01-SS03-01	THALLIUM	JG	0.062	0.15	LOQ	mg/Kg	J (all detects)
BG01-SS04-01	THALLIUM	JG	0.061	0.15	LOQ	mg/Kg	J (all detects)
BG01-SS05-01	THALLIUM	J	0.14	0.17	LOQ	mg/Kg	J (all detects)
BG01-SS06-01	THALLIUM	J	0.13	0.14	LOQ	mg/Kg	J (all detects)
BG01-SS07-01	THALLIUM	J	0.091	0.15	LOQ	mg/Kg	J (all detects)
BG01-SS07-01 DUP	THALLIUM	J	0.13	0.15	LOQ	mg/Kg	J (all detects)
BG01-SS08-01	THALLIUM	J	0.055	0.15	LOQ	mg/Kg	J (all detects)

Site/Project Name:	Surface Soil, Sub-Surface Soil and Groundwater Temporary Well Sampling, at Former Camp Hero State Park, Montauk, New York.	Page	1
Laboratory:	RTI Laboratories, Inc. – Livonia, MI.		
Laboratory SDG:	1606430		
Date(s) of Collection:	June 12th, 2016		
Number/Type Samples & Analyses:	18 soil samples for project-specific list of VOC STAR Fuel and SVOC SIM STAR Fuel		
Senior Data Reviewer:	Victoria Kirkpatrick AECOM/Germantown, MD		
Completed:	August 26th,2016		

SUMMARY

AECOM conducted a reduced-level data validation on the ADR output for surface soil, sub-surface soil data included in Sample Delivery Group (SDG) 1606430. This reduced-level data validation verified appropriate application of DV qualifications and reviewed laboratory narrative issues to interpret potential data usability for exceedances noted by the ADR and to identify potential issues not included in the ADR, Data quality requirements can be found in the Final *2016 Sampling and Analysis Plan, Remedial Investigation at Former Camp Hero, Montauk, New York*, prepared by AECOM in June, 2016.

REVIEW ELEMENTS

This reduced-level data validation report included an evaluation of the project-specific DQOs in terms of data accuracy, precision, sensitivity, representativeness, and completeness. The validation procedures employed consisted of the following:

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NA Trip blank data

✗ Laboratory control sample (LCS) recoveries

✗ Matrix spike (MS) and/or matrix spike duplicate (MSD) results

✗ Surrogate recoveries

NA Laboratory duplicate results

✗ Field duplicate results

✗ Quantitation limits and sample results

The following additional reviews were conducted on the hardcopy data package:

- ✓ Review of COC documents to verify sample identities
- ✓ Review of laboratory narrative or sample log-in documents to verify any potential problems with custody seals, container integrity, sample preservation, labeling, etc.
- ✓ Spot-check of "J" data, reported below the RL, as reported in the ADR.
- ✓ General reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. The symbol (✗) indicates that data were qualified on the basis of this parameter.

FINDINGS

The following table defines the data qualifiers assigned by ADR.

Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is an estimated quantity with an unknown bias.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
U	The result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive.

Attachment A presents a summary of qualified data. Based on review of the ADR output and laboratory narrative, all DQOs were met with any exceptions appropriately qualified by ADR. ADR Discrepancy reports are included in Attachment B.

ATTACHMENTS

Attachment A: Data Qualifier Summary and ADR Discrepancy Reports

Data Qualifier Summary

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: **SVOA**

Method: **8270D-SIM-STAR** ***Matrix:*** **Soil**

Sample ID: **AST35-SB01-05** ***Collected:*** **6/12/2016 9:45:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ACENAPHTHENE	0.0017		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Fd
ANTHRACENE	0.0027		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Fd
BENZ(A)ANTHRACENE	0.010		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Lcs, Fd
BENZO(A)PYRENE	0.0080		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Fd
BENZO(B)FLUORANTHENE	0.011		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.0011		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Fd
BENZO(K)FLUORANTHENE	0.0051		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Fd
CHRYSENE	0.0096		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Fd
FLUORANTHENE	0.021		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Fd
FLUORENE	0.0018		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Lcs, Fd
INDENO(1,2,3-CD)PYRENE	0.0057		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Fd
PHENANTHRENE	0.014		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Lcs, Fd
PYRENE	0.018		0.00073	LOD	0.00073	LOQ	mg/Kg	J	Fd

Sample ID: **AST35-SB01-05 DUP** ***Collected:*** **6/12/2016 9:45:00 AM** ***Analysis Type:*** **Initial-BASE/ NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ACENAPHTHENE	0.00082		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
ANTHRACENE	0.00078		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
BENZ(A)ANTHRACENE	0.0038		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Lcs, Fd
BENZO(A)PYRENE	0.0033		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
BENZO(B)FLUORANTHENE	0.0058		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.0027		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
BENZO(K)FLUORANTHENE	0.0017		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
CHRYSENE	0.0044		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
FLUORANTHENE	0.0091		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
FLUORENE	0.00089		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Lcs, Fd
INDENO(1,2,3-CD)PYRENE	0.0027		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
PHENANTHRENE	0.0058		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Lcs, Fd
PYRENE	0.0074		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-SIM-STAR **Matrix:** Soil

Sample ID: AST35-SB04-03 **Collected:** 6/12/2016 8:40:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	0.011	X	0.00075	LOD	0.00075	LOQ	mg/Kg	J-	Ms
PYRENE	0.011	X	0.00075	LOD	0.00075	LOQ	mg/Kg	J-	Ms

Sample ID: FPH-SB03-02 **Collected:** 6/12/2016 9:35:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.00077	U	0.00077	LOD	0.00077	LOQ	mg/Kg	UJ	Surr
ACENAPHTHYLENE	0.0021		0.00077	LOD	0.00077	LOQ	mg/Kg	J-	Surr
BENZ(A)ANTHRACENE	0.010		0.00077	LOD	0.00077	LOQ	mg/Kg	J-	Surr
BENZO(A)PYRENE	0.0060		0.00077	LOD	0.00077	LOQ	mg/Kg	J-	Surr
BENZO(B)FLUORANTHENE	0.012		0.00077	LOD	0.00077	LOQ	mg/Kg	J-	Surr
BENZO(G,H,I)PERYLENE	0.0063		0.00077	LOD	0.00077	LOQ	mg/Kg	J-	Surr
BENZO(K)FLUORANTHENE	0.0020		0.00077	LOD	0.00077	LOQ	mg/Kg	J-	Surr
CHRYSENE	0.0061		0.00077	LOD	0.00077	LOQ	mg/Kg	J-	Surr
DIBENZO(A,H)ANTHRACENE	0.00077	U	0.00077	LOD	0.00077	LOQ	mg/Kg	UJ	Surr
FLUORANTHENE	0.00077	U	0.00077	LOD	0.00077	LOQ	mg/Kg	UJ	Surr
FLUORENE	0.00077	U	0.00077	LOD	0.00077	LOQ	mg/Kg	UJ	Surr
INDENO(1,2,3-CD)PYRENE	0.0053		0.00077	LOD	0.00077	LOQ	mg/Kg	J-	Surr
PHENANTHRENE	0.030		0.00077	LOD	0.00077	LOQ	mg/Kg	J-	Surr
PYRENE	0.00077	U	0.00077	LOD	0.00077	LOQ	mg/Kg	UJ	Surr

Sample ID: FPH-SS01-01 **Collected:** 6/12/2016 10:15:00 AM **Analysis Type:** Dilution-1-BASE/ NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	0.046		0.0023	LOD	0.0023	LOQ	mg/Kg	J	Fd

Sample ID: FPH-SS01-01 **Collected:** 6/12/2016 10:15:00 AM **Analysis Type:** Initial-BASE/ NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.0072		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd
BENZ(A)ANTHRACENE	0.025		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd
BENZO(A)PYRENE	0.015		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: SVOA

Method: 8270D-SIM-STAR **Matrix:** Soil

Sample ID: FPH-SS01-01 **Collected:** 6/12/2016 10:15:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.026		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.0090		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd
BENZO(K)FLUORANTHENE	0.0047		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd
CHRYSENE	0.015		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd
DIBENZO(A,H)ANTHRACENE	0.0039		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.0076		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd
PHENANTHRENE	0.037		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd
PYRENE	0.038		0.00076	LOD	0.00076	LOQ	mg/Kg	J	Fd

Sample ID: FPH-SS01-01 DUP **Collected:** 6/12/2016 10:15:00 AM **Analysis Type:** Initial-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.0039		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
BENZ(A)ANTHRACENE	0.0021		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
BENZO(A)PYRENE	0.0016		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
BENZO(B)FLUORANTHENE	0.0035		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
BENZO(G,H,I)PERYLENE	0.0016		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
BENZO(K)FLUORANTHENE	0.0010		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
CHRYSENE	0.0019		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
DIBENZO(A,H)ANTHRACENE	0.00074	U	0.00074	LOD	0.00074	LOQ	mg/Kg	UJ	Fd
FLUORANTHENE	0.0041		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
INDENO(1,2,3-CD)PYRENE	0.0013		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
PHENANTHRENE	0.0047		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd
PYRENE	0.0039		0.00074	LOD	0.00074	LOQ	mg/Kg	J	Fd

Method Category: VOA

Method: 8260C-STAR **Matrix:** Soil

Sample ID: AST35-SB01-05 **Collected:** 6/12/2016 9:45:00 AM **Analysis Type:** Initial **Dilution:** 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
p-Isopropyltoluene [p-Cymene]	0.00056	U	0.00056	LOD	0.00093	LOQ	mg/Kg	UJ	Fd

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method Category: VOA

Method: 8260C-STAR **Matrix:** Soil

Sample ID: AST35-SB01-05 DUP **Collected:** 6/12/2016 9:45:00 AM **Analysis Type:** Initial **Dilution:** 0.73

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
p-Isopropyltoluene [p-Cymene]	0.00034	J	0.00048	LOD	0.00081	LOQ	mg/Kg	J	RI, Fd

Sample ID: AST35-SB04-03 **Collected:** 6/12/2016 8:40:00 AM **Analysis Type:** Initial **Dilution:** 86.6

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRIMETHYLBENZENE	0.059	UQX	0.059	LOD	0.098	LOQ	mg/Kg	UJ	Ms, Lcs
NAPHTHALENE	0.059	UXZ	0.059	LOD	0.49	LOQ	mg/Kg	UJ	Ms
p-Isopropyltoluene [p-Cymene]	0.059	UX	0.059	LOD	0.098	LOQ	mg/Kg	UJ	Ms

Sample ID: FPH-SB04-04 **Collected:** 6/12/2016 9:00:00 AM **Analysis Type:** Initial **Dilution:** 93.3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRIMETHYLBENZENE	0.064	UQ	0.064	LOD	0.11	LOQ	mg/Kg	UJ	Lcs

Sample ID: FPH-SB04-05 **Collected:** 6/12/2016 8:50:00 AM **Analysis Type:** Initial **Dilution:** 1.28

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLBENZENE	0.0012	J	0.00086	LOD	0.0014	LOQ	mg/Kg	J	RI
SEC-BUTYLBENZENE	0.0022	J	0.0014	LOD	0.0029	LOQ	mg/Kg	J	RI

Sample ID: FPH-SS02-01 **Collected:** 6/12/2016 9:40:00 AM **Analysis Type:** Initial **Dilution:** 83.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRIMETHYLBENZENE	0.058	UQ	0.058	LOD	0.097	LOQ	mg/Kg	UJ	Lcs

Sample ID: FPH-SS03-01 **Collected:** 6/12/2016 9:30:00 AM **Analysis Type:** Initial **Dilution:** 111.3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRIMETHYLBENZENE	0.084	UQ	0.084	LOD	0.14	LOQ	mg/Kg	UJ	Lcs

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Qualifier Summary

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Reason Code Legend

Reason Code	*Description*
Fd	Field Duplicate Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Ms	Matrix Spike Lower Estimation
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: - USACE Project: Camp Hero

Data Review Summary

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Validation Area	*Note*
Technical Holding Times	A
Temperature	A
Initial Calibration	N
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	A
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	SR
Laboratory Duplicates	A
Laboratory Replicates	N
Laboratory Control Samples	SR
Compound Quantitation	SR
Field Duplicates	SR
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

Method Blank Outlier Report

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

No Data Review Qualifiers Applied.

Surrogate Outlier Report

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: **8270D-SIM-STAR**
Matrix: **Soil**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
FPH-SB03-02 (Initial)	2-FLUOROBIPHENYL	26.5	46.00-115.00	All Base/Neutral Target Analytes	J- (all detects) UJ (all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: **8270D-SIM-STAR**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
AST35-SB04-03MS (AST35-SB04-03)	FLUORANTHENE PYRENE	39.2 53.7	- -	55.00-119.00 55.00-117.00	- -	FLUORANTHENE PYRENE	J- (all detects) UJ (all non-detects)

Method: **8260C-STAR**
Matrix: **Soil**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
AST35-SB04-03MS (AST35-SB04-03)	1,2,4-TRIMETHYLBENZENE NAPHTHALENE p-Isopropyltoluene [p-Cymene]	72.2 58.5 70.8	- - -	75.00-123.00 62.00-129.00 73.00-127.00	- - -	1,2,4-TRIMETHYLBENZENE NAPHTHALENE p-Isopropyltoluene [p-Cymene]	J-(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: 8270D-SIM-STAR
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS-40193 (AST35-SB01-05 AST35-SB01-05 DUP)	BENZ(A)ANTHRACENE FLUORENE PHENANTHRENE	134 116 129	- - -	54.00-122.00 47.00-114.00 49.00-113.00	- - -	BENZ(A)ANTHRACENE FLUORENE PHENANTHRENE	J+ (all detects)

Method: 8260C-STAR
Matrix: Soil

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
VOA11B LCS2 0617 (AST35-SB04-03 FPH-SB04-04 FPH-SS02-01 FPH-SS03-01)	1,2,4-TRIMETHYLBENZENE	74.8	-	75.00-123.00	-	1,2,4-TRIMETHYLBENZENE	J-(all detects) UJ(all non-detects)

Project Name and Number: - USACE Project: Camp Hero

Field Duplicate Outlier Report

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: 8260C-STAR
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	AST35-SB01-05	AST35-SB01-05 DUP			
p-Isopropyltoluene [p-Cymene]	0.00093 U	0.00034	200	50.00	J (all detects) UJ (all non-detects)

Method: 8270D-SIM-STAR
Matrix: Soil

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	AST35-SB01-05	AST35-SB01-05 DUP			
ACENAPHTHENE	0.0017	0.00082	70	50.00	
ANTHRACENE	0.0027	0.00078	110	50.00	
BENZ(A)ANTHRACENE	0.010	0.0038	90	50.00	
BENZO(A)PYRENE	0.0080	0.0033	83	50.00	
BENZO(B)FLUORANTHENE	0.011	0.0058	62	50.00	
BENZO(G,H,I)PERYLENE	0.0011	0.0027	84	50.00	
BENZO(K)FLUORANTHENE	0.0051	0.0017	100	50.00	J(all detects) UJ(all non-detects)
CHRYSENE	0.0096	0.0044	74	50.00	
FLUORANTHENE	0.021	0.0091	79	50.00	
FLUORENE	0.0018	0.00089	68	50.00	
INDENO(1,2,3-CD)PYRENE	0.0057	0.0027	71	50.00	
PHENANTHRENE	0.014	0.0058	83	50.00	
PYRENE	0.018	0.0074	83	50.00	

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	FPH-SS01-01	FPH-SS01-01 DUP			
ANTHRACENE	0.0072	0.0039	59	50.00	
BENZ(A)ANTHRACENE	0.025	0.0021	169	50.00	
BENZO(A)PYRENE	0.015	0.0016	161	50.00	
BENZO(B)FLUORANTHENE	0.026	0.0035	153	50.00	
BENZO(G,H,I)PERYLENE	0.0090	0.0016	140	50.00	
BENZO(K)FLUORANTHENE	0.0047	0.0010	130	50.00	J(all detects)
CHRYSENE	0.015	0.0019	155	50.00	UJ(all non-detects)
DIBENZO(A,H)ANTHRACENE	0.0039	0.00074 U	200	50.00	
FLUORANTHENE	0.046	0.0041	167	50.00	
INDENO(1,2,3-CD)PYRENE	0.0076	0.0013	142	50.00	
PHENANTHRENE	0.037	0.0047	155	50.00	
PYRENE	0.038	0.0039	163	50.00	

Project Name and Number: - USACE Project: Camp Hero

Reporting Limit Outliers

Lab Reporting Batch ID: 1606430 **Laboratory: RTILABS**

EDD Filename: EDD_1606430_SEDD_2a_v14 **eQAPP Name: Former_Camp_Hero**

Method: **8260C-STAR**

Matrix: **Soil**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
AST35-SB01-05 DUP	p-Isopropyltoluene [p-Cymene]	J	0.00034	0.00081	LOQ	mg/Kg	J (all detects)
FPH-SB04-05	ETHYLBENZENE SEC-BUTYLBENZENE	J J	0.0012 0.0022	0.0014 0.0029	LOQ LOQ	mg/Kg mg/Kg	J (all detects)

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Appendix H

Daily Field Reports

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United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/16/2016

DR No. 01		**WRITTEN BY**: Brendan McGuinness	**PROJECT NUMBER**: 60443903
Weather: 46°F	Sunny/Partly Cloudy	**Days without a lost time injury:** 1	

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Brendan McGuinness	8	Technical Lead	AECOM		Megan Cullen - USACE
Nicole Schulman	10	Geologist	AECOM	1 GPS Base station	
Matt Emmert	8	Geophysicist/UXO Tech II	AECOM	2 schonstedt magnetometers	
Eric Celebrezze	8	Geophysicist	AECOM	1 EM-61 geophysics	
Steve Glenn	8	Botanist	AECOM	3 service trucks	
DAILY TOTAL	42				
TOTAL TO DATE	42				

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):

WORKED PERFORMED BY AECOM

Geophysics - set up GPS base station for calibration. Reviewed geophysical survey sites and conducted initial sweep of each site with schonstead magnetometer. Flagged the vegetated areas of each geophysical site that requires vegetation removal. Swept with magnetometer and visually inspected AGC Sites 1, 2 and 3.

Protected Plant Site Survey - Surveyed and flagged species at Bldg 2010, H-14, H-21, Tank GH-9, H-19, H-20, and H-22.

AECOM performed site survey for suspected well pump tank F shown on historic plans but could not find a well or well house. Debris and a brick cesspool manhole was identified in the area of the suspected well and potential UST. However the area appeared to be historically graded, disturbed and a overgrown with thick vegetation.

AECOM performed additional site survey for suspected open pits at H-21 described in the Cashin 1995 Report but could not locate such site features. Manholes for the site wide septic sytem were found but no open pits. Additional field review is planned with USACE on-site staff tomorrow.

WORK COMPLETED BY AECOM SUBCONTRACTORS

- None

SAMPLING PERFORMED:

- None

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone recors, and/or logbooks for details)

Based on the heavy presence of protected plant species at the suspected UST G (remote well house), the use of a Shonstedt hand-held magnetometer was initially proposed, rather than EM-61 methods, to reduce vegetation removal and potential protected plant species damage. In addition, like-construction at other well houses suggest that if a UST were present for the well pump, it would typically be small and near the ground surface - therefore readily detected with a magnetometer.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/16/2016

DR No. 01		**WRITTEN BY**: Brendan McGuinness	**PROJECT NUMBER**: 60443903

REQUEST FOR INFORMATION (RFI)

- None

TRANSMITTALS / SUBMITTALS

- None

AIR MONITORING COMMENTS:

- None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

Safety meeting held in the morning. Discussed the infestation of ticks in the area and preventitive care such as appropriate clothing and insecticides.

SITE OBSERVATIONS

- None

Superintendent (Signature):

Brendan McGuinness

Daily Photos

southern Arrowwoood plant flagging at H-14

Bldg 2010 and well head Pb in soil

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/16/2016

DR No. 01		**WRITTEN BY**: Brendan McGuinness	**PROJECT NUMBER**: 60443903

Drum at H-22

Open manhole (old cesspool) at suspected tank F (not found)

Debris at suspected tank F (not found)

Flagging and survey at H-9

Drum at H-20

Boiler at H-9 survey

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/16/2016

DR No. 01		**WRITTEN BY**: Brendan McGuinness	**PROJECT NUMBER**: 60443903

Debris at Plotting Room 113 (demolished)

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/17/2016

DR No. 02		**WRITTEN BY**: Brendan McGuinness	**PROJECT NUMBER**: 60443903
Weather: 65°F Sunny/Partly Cloudy		**Days without a lost time injury:** 1	

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Brendan McGuinness	8	Technical Lead	AECOM	1 GPS Base station	Megan Cullen - USACE
Nicole Schulman	10	Geologist	AECOM	2 schonstedt magnetometers	Mike Penko - USACE
Matt Emmert	9	Geophysicist/UXO Tech II	AECOM	1 EM-61 geophysics	PJ Mion - USACE
Eric Celebrezze	9	Geophysicist	AECOM	3 service trucks	
Steve Glenn	9	Botanist	AECOM	brush hog chain saw	
CGE	8	Veg Removal	CGE	Weed trimmer	
CGE	8	Veg Removal	CGE		
DAILY TOTAL	61				
TOTAL TO DATE	103				

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
CGE	

WORKED PERFORMED BY AECOM

Protected Plant Site Survey-Surveyed and flagged species at H-5, H-16, chlorine contact chamber of sanitary system, and Bunker 216 (Bunker 216 required 3.5 hours).

Geophysics-set up GPS base station. Completed geophysics at Building 22, Building 2, and Building 3001, scouted proposed sites for Wednesday and completed base station diagnostics.

AECOM performed additional site survey for suspected open pits at H-21 described in the Cashin 1995 Report with USACE and verified location of the referenced pits. AECOM performed site survey for the septic tank near the chlorine chmaber of sanitary system but could not locate tank. Manholes for the site wide septic sytem near the tank were found. Additional field review is location using a hand held GPS unit is planned. AECOM and USACE performed site survey of H-5. The construction debris site was identified and the site location to be updated on site maps.

WORK COMPLETED BY AECOM SUBCONTRACTORS

Vegetation Clearance-Brush removal contractor (CGI) under AECOM oversight cleared brush for drill rig access at Building 112, 113, a portion of background BG-01, Building 2, a portion of H-13 (fuel pump house), and H-13.

SAMPLING PERFORMED:

None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/17/2016

DR No. 02		**WRITTEN BY**: Brendan McGuinness	**PROJECT NUMBER**: 60443903

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone recors, and/or logbooks for details)

Add existing monitoring well at Building 22 to sampling program
Redristribute sampling ponts in the motor pool H-5/H-16 to include construction debris uncovered at adjacent former building 34.

REQUEST FOR INFORMATION (RFI)

- None

TRANSMITTALS / SUBMITTALS

- None

AIR MONITORING COMMENTS:

No intrusive work conducted

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

Ticks are pervasive at Camp Hero and require personal vigilance throughout day.

SITE OBSERVATIONS

- None

Superintendent (Signature):

Brendan McGuinness

Daily Photos

Former Building 34 debris near motor pool

botonist flagging protected plants at former Bldg 34 debris

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/18/2016

DR No. 03		**WRITTEN BY**: Brendan McGuinness	**PROJECT NUMBER**: 60443903
Weather: 65°F Sunny/Partly Cloudy		**Days without a lost time injury:** 3	

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Brendan McGuinness	8	Technical Lead	AECOM	1 GPS Base station	Megan Cullen - USACE
Nicole Schulman	10	Geologist	AECOM	2 schonstedt magnetometers	Mike Penko - USACE
Matt Emmert	10	Geophysicist/UXO Tech II	AECOM	1 EM-61 geophysics	PJ Mion - USACE
Eric Celebrezze	10	Geophysicist	AECOM	3 service trucks	
Steve Glenn	10	Botanist	AECOM	brush hog chain saw	
CGE	8	Veg Removal	CGE	Weed trimmer	
CGE	8	Veg Removal	CGE		
DAILY TOTAL	64				
TOTAL TO DATE	167				

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
CGE	

WORKED PERFORMED BY AECOM

Protected Plant Site Survey-Surveyed and flagged species at Background locations BG-02, BG-03, and BG-04, and surveyed areas of additional brush clearing required at the fuel pump building. Steve Glenn (AECOM Botanist and Mike Penko (USACE Ecologist) have telephoned and emailed NYS Heritage Program to discuss handling of numerous southern arrowwood seedlings and saplings that exist throughout Camp Hero and in some AOC areas. with NYS Heritage Program.

Geophysics-set up GPS base station. Completed geophysics at Plotting Room 112, Fuel Pump House, and additional coverage at Building 2.

AECOM and the USACE project team conducted site survey for protected plants, suitability, and inspected soil types at Background locations BG-02, BG-03, and BG-04. AECOM and the USACE project team conducted site survey of H-3 (Drum location). AECOM and the USACE project team met with Superintendent Dess and reviewed project activities, project team visited recently collapsed Building 10 (post office) and inspected materials inside. The project team drove to Bunker 113 and discussed building access for Bunker 113 and general Camp Hero site access was reviewed for RI Phase 1 drilling activities. Mr. Dess indicated where AECOM/USACE could break into cinder block at Building 113 for entry. Mr. Dess indicated the cinder block at this location could be broken with a sludge hammer. The NYS Parks service could repair the access in wall, possibly installing a steel locking door at that time. Mr. Dess showed the project team the available building at the west gate of Camp Hero which could be utilized for sample preparation. The west gate of the facility could also be used for ingress and egress (utilizing code 6767 for ingress to the park through gate).

WORK COMPLETED BY AECOM SUBCONTRACTORS

Vegetation Clearance-Brush removal contractor (CGI) under AECOM oversight cleared brush for drill rig access at H-14 (coal storage area), at Former Building 34 next to motor pool, Plotting room 113, and additional area for distribution pipe mapping behind the fuel pump house.

SAMPLING PERFORMED:

None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/18/2016

DR No. 03		**WRITTEN BY**: Brendan McGuinness	**PROJECT NUMBER**: 60443903

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

The concrete square secondary retention structure at H-13 (former 200,000 gallon fuel tank) near fuel pump house still has 2-3 feet of standing water. The situation will be monitored to see if water recedes but AECOM discussed the potential that borings scheduled within the former containment structure may need to relocated to immediately outside of the structure due to standing water.

REQUEST FOR INFORMATION (RFI)

- None

TRANSMITTALS / SUBMITTALS

- None

AIR MONITORING COMMENTS:

No intrusive work conducted

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

Ticks are pervasive at Camp Hero and require personal vigilance throughout day. Promethean impregnated clothing is recommended for field work.

SITE OBSERVATIONS

- None

Superintendent (Signature):

Brendan McGuinness

Daily Photos

Former building foundation near H-3

H-3 abandoned drum

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/18/2016

DR No. 03		**WRITTEN BY**: Brendan McGuinness	**PROJECT NUMBER**: 60443903

Old motor oil containers and eroded buckets in Building 10

Renovated Guard building proposed for RI sample preparation

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/19/2016

DR No. 04		**WRITTEN BY**: Eric Celebrezze	**PROJECT NUMBER**: 60443903
Weather: 64°F	Sunny/Partly Cloudy	**Days without a lost time injury:** 4	

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Nicole Schulman	10	Geologist	AECOM		
Matt Emmert	10	Geophysicist/UXO Tech II	AECOM	EM-61 MK2 / RTK GPS	PJ Mion - USACE
Eric Celebrezze	10	Geophysicist	AECOM	EM-61 MK2 / RTK GPS	
Steve Glenn	8	Botanist	AECOM		
CGE	8	Veg Removal	CGE		
CGE	8	Veg Removal	CGE		
DAILY TOTAL	54				
TOTAL TO DATE	221				

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
CGE	

WORKED PERFORMED BY AECOM

Oversite of Veg Removal and Classification of Protected Species. Digital Geophysical Mapping at the Fire House, Battery 216, and Plotting Room 113.

WORK COMPLETED BY AECOM SUBCONTRACTORS

Veg Removal at Battery 216 and Plotting Room 113

SAMPLING PERFORMED:

- None

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone recors, and/or logbooks for details)

- None

REQUEST FOR INFORMATION (RFI)

- None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/19/2016

DR No. 04		**WRITTEN BY**: Eric Celebrezze	**PROJECT NUMBER**: 60443903

TRANSMITTALS / SUBMITTALS

- None

AIR MONITORING COMMENTS:

- None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

- None

SITE OBSERVATIONS

- None

Superintendent (Signature):

Eric Celebrezze

Daily Photos

- No photos taken on 5/19/2016 (geophysics crew cannot have metal or electronics while working due to interference)

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/20/2016

DR No. 05		**WRITTEN BY**: Eric Celebrezze	**PROJECT NUMBER**: 60443903
Weather: 64°F	Sunny/Partly Cloudy	**Days without a lost time injury:** 5	

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Nicole Schulman	0	Geologist	AECOM		
Matt Emmert	10	Geophysicist/UXO Tech II	AECOM	EM-61 MK2 / RTK GPS	
Eric Celebrezze	10	Geophysicist	AECOM	EM-61 MK2 / RTK GPS	
Steve Glenn	0	Botanist	AECOM		
CGE	0	Veg Removal	CGE		
CGE	0	Veg Removal	CGE		
DAILY TOTAL	20				
TOTAL TO DATE	241				

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
None	None

WORKED PERFORMED BY AECOM

Digital Geophysical Mapping at Battery 216 and Plotting Room 113. Analog Geophysical at Battery 113.

WORK COMPLETED BY AECOM SUBCONTRACTORS

None

SAMPLING PERFORMED:

- None

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone recors, and/or logbooks for details)

- None

REQUEST FOR INFORMATION (RFI)

- None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/20/2016

DR No. 05		**WRITTEN BY**: Eric Celebrezze	**PROJECT NUMBER**: 60443903

TRANSMITTALS / SUBMITTALS

- None

AIR MONITORING COMMENTS:

- None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

- None

SITE OBSERVATIONS

- None

Superintendent (Signature):

Eric Celebrezze

Daily Photos

- No photos taken on 5/20/2016 (geophysics crew cannot have metal or electronics while working due to interference)

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/23/2016

DR No. 06		**WRITTEN BY**: Eric Celebrezze	**PROJECT NUMBER**: 60443903
Weather: 68°F	Sunny/Partly Cloudy	**Days without a lost time injury:** 6	

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Nicole Schulman	13	Geologist	AECOM		
Matt Emmert	12	Geophysicist/UXO Tech II	AECOM	EM-61 MK2 / RTK GPS	
Eric Celebrezze	12	Geophysicist	AECOM	EM-61 MK2 / RTK GPS	
Steve Glenn	0	Botanist	AECOM		
CGE	0	Veg Removal	CGE		
CGE	0	Veg Removal	CGE		
DAILY TOTAL	37				
TOTAL TO DATE	278				

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
CGE	

WORKED PERFORMED BY AECOM

GPS located manhole covers and wells that were previously found to incorporate into GIS database. Additionally, flagged out 42 anomalies across all areas of concern found by the DGM field activities. Also conducted anolog geophysical survey on battery 216 where due to vegitation a DGM survey was unable to acquire data.

WORK COMPLETED BY AECOM SUBCONTRACTORS

SAMPLING PERFORMED:

- None

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone recors, and/or logbooks for details)

- None

REQUEST FOR INFORMATION (RFI)

- None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 5/23/2016

DR No. 06		**WRITTEN BY**: Eric Celebrezze	**PROJECT NUMBER**: 60443903

TRANSMITTALS / SUBMITTALS

- None

AIR MONITORING COMMENTS:

- None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

- None

SITE OBSERVATIONS

- None

Superintendent (Signature):

Eric Celebrezze

Daily Photos

- No photos taken on 5/23/2016 (geophysics crew cannot have metal or electronics while working due to interference)

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/6/2016

DR No. 07		**WRITTEN BY**: Amanda Martin		**PROJECT NUMBER**: 60443903	
Weather: 75°F Sunny		**Days without a lost time injury:** 7			
NAME:	**HRS**	**TRADE:**	**COMPANY:**	**EQUIPMENT:**	**VISITORS/AFFILIATION:**
Kelly Lurie	10.5	SSHO	AECOM	YSI 6920 Water Level Meter (3)	Megan Cullen, USACE
Amanda Martin	10.5	Site Supervisor	AECOM	GeoTech Peristaltic Pump (1)	PJ Mion, USACE
Brendan McGuinness	3.5	Technical Lead	AECOM	Solonist Water Level Meter (2)	Paul Young, USACE
Nicole Schulman	10.5	Geologist	AECOM	PID MiniRae 3000 (4)	
Mike Glinski	10.5	Geologist	AECOM	PID MiniRae 2000 (1)	
Katie Priess	10.5	Environmental Scientist	AECOM	MIE DR-4000 Dust Monitor (2)	
Nina Bennerson	10.5	UXO Tech II	AECOM	Shondstadt Magnetometer	
Keith	3	Driller	NE Geotech	Direct Push Rig (2)	
Mike	3	Driller	NE Geotech		
DAILY TOTAL	72.5				
TOTAL TO DATE	350.5	*(on-site hours only)*			

SUBCONTRACTORS:	**SITE DELIVERIES (indicate size, type, and condition):**
New England Geotech	1 Call-a-head Porta-John - delivered on Friday 6/3/2016
	1 AB Richards Storage Container, 20 ft - delivered Friday 6/3/2016
	(No DR completed on Friday 6/6/2016 because no other work completed on site. Nicole Schulman was on site
	to receive deliveries)

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and received UXO Awareness Training as part of the Morning Tailgate Health and Safety Meeting. The team reviewed the Work Plan and received a site tour, as all but one of the team had not yet visited the site. The team then organized bottleware, inventoried equipment, and began flagging drilling locations (were able to flag about 1/4 of the boring/sampling locations). Locations H-18, H-7, and H-8 could not be identified by the team, including the USACE team members that were on site. The Tailgate Health and Safety meeting and UXO Awareness training was provided to New England Geotech team members when they arrived on site, and the team assisted them in staging their equipment.

Note that New York 811 - Dig Safe contractors had not completed utility mark-outs by Monday 6/6/2016. Dig Safe tickets were placed on Wednesday 5/25/16, 8 days in advance of the required 2-day notice. Mark-out was originally guaranteed by 0700 on Monday 6/6/2016.On 6/3/16 at14:36 EDT, participating facility owners responded to the Ticket Check with a 48-hour delay notice (indicating mark-outs would not be completed until possibly 0700 EDT 6/8/2016). AECOM called the responsible contractor, indicating the request was urgent, and was told mark-out would be completed on Monday 6/6/2016. However, no utility mark-out contractor was on site Monday 6/6/2016. Therefore, no drilling could be performed on 6/6/2016.

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geotech arrived on-site around 12 PM. The team staged their equipment and drums at the Motor Pool, and assembled decontamination pads.
Because New York 811 - Dig Safe contractors had not completed utility mark-outs, no drilling could be performed on 6/6/2016.

SAMPLING PERFORMED:

Sampling was completed at AOC H-9 per the RI WP.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

- None

REQUEST FOR INFORMATION (RFI)

- None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/6/2016

DR No. 07		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

TRANSMITTALS / SUBMITTALS

- None

AIR MONITORING COMMENTS:

- None. No air monitoring was performed because no drilling was completed on 6/6/2016.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

- The team took extra precautions with regard to Ticks, by reviewing AECOM's Tick Safety Standard Operating Procedure, treating field clothing with Permethrin, and performing tick-checks throughout the day (with a thorough check at night in the hotel room).

SITE OBSERVATIONS

- Locations H-18, H-7, and H-8 could not be identified by the team (including the USACE visitors).

Superintendent (Signature):

Amanda Martin

Daily Photos

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/6/2016

DR No. 07		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Photo 1. A Eastern Box turtle spotted on path to H-15, but not disturbed. The Eastern Box turtle is designated as species of special concern in New York State, as defined in Section 182.2(i) of 6NYCRR Part 182.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/7/2016 Tuesday

DR No. 08		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F	Sunny	**Days without a lost time injury:**	8

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Kelly Lurie	12	SSHO	AECOM	YSI 6920 Water Level Meter (3)	Megan Cullen, USACE
Amanda Martin	12	Site Supervisor	AECOM	GeoTech Peristaltic Pump (1)	PJ Mion, USACE
Brendan McGuinness	12	Technical Lead	AECOM	Solonist Water Level Meter (2)	Paul Young, USACE
Nicole Schulman	10.5	Geologist	AECOM	PID MiniRae 3000 (4)	
Mike Glinski	12	Geologist	AECOM	PID MiniRae 2000 (1)	
Katie Priess	12	Environmental Scientist	AECOM	MIE DR-4000 Dust Monitor (2)	
Nina Bennerson	12	UXO Tech II	AECOM	Shondstadt Magnetometer	
Keith Precious	9.5	Driller	NE Geotech	Direct Push Rig (2)	
Mike Podany	9.5	Driller	NE Geotech		
DAILY TOTAL	101.5				
TOTAL TO DATE	452	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
New England Geotech	None

WORK AND SAMPLING PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

UTILITY CLEARANCE

The New York 811- Dig Safe contractor for National Grid, Long Island Power, and Suffolk County Water arrived on-site around 1000 to complete utility mark-outs. Mark-out was overseen by A. Martin (Site Supervisor) and was completed around 1400. Upon mark-out completion, Ms. Martin submitted AECOM Utility Clearance Checklists to the Mark MacEwan (AECOM Project Manager) for approval, prior to beginning any intrusive activities.

SITE SURVEY AND FLAGGING OF BORING LOCATIONS

The AECOM team flagged boring locations at AOCs in the morning, while awaiting arrival of the utility clearance contractor. Site survey by the project team was unable to locate debris noted by previous Cashin Report at AOC H-7, H-8, and H-18 on 6/6/2016. Further attempts were made, with a shondstadt survey of each area. H-18 was located but the Shondstadt survey uncovered no results for H-7 or H-8. No further investigation will be completed at these two AOCs.

SOIL SAMPLING

Surface and near-surface soil samples were collected via hand-auger at H-3 and H-22. Once signed utility clearance checklists were received from the AECOM Project Manager, geoprobe borings (and associated soil sampling) were completed at AOCs H-11 (SB01, SB02), H-12 (SB01), and WDS (SB21 through SB27).

GROUNDWATER SAMPLING

Temporary wells were set in the borings at AOCs H-11, H-12, and WDS. One groundwater sample was obtained from H11-SB02 for analysis of PAHs and metals. Due to slow groundwater recharge to temporary wells, sufficient sample volume was not available to complete the scheduled groundwater analysis. The temporary wells were covered with plastic and scheduled for further groundwater sampling the following day.

UXO ANOMALY AVOIDANCE

UXO Anomaly avoidance was performed at the following AOCs. All areas were cleared.

Background 01	*H-12*
Background 04	*H-18*
Building 2010	*Suspected Tank B*
H-11	*WDS (SB20 through SB27)*

SAMPLE MANAGEMENT AND SHIPMENT

Soil and groundwater samples collected were held on ice overnight for next-day quality control check and shipment.

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geotech completed borings and set temporary wells at AOC H-11 (SB01 and SB02), H-12 (SB01), and WDS (SB21 through SB27). Additionally, NE Geotech assisted with hand-augering samples at H-3 and H-22.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/7/2016 Tuesday

DR No. 08		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Site survey by the project team was unable to locate debris noted by previous Cashin Report at AOC H-7, H-8, and H-18. The USACE team project manager, Megan Cullen, directed AECOM to conduct magnetometer and visual sweep of these areas. If the debris can not be located with the magnetometer or visually, then no further investigation will be conducted.

REQUEST FOR INFORMATION (RFI)

- None

TRANSMITTALS / SUBMITTALS

- None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/7/2016 Tuesday

DR No. 08	**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Daily Photos

Photo 1. Drum located at the Cashin H-3 location.

Photo 2. Soil cores at the Waste Disposal System (WDS) AOC. Boring ID: WDS-25. Photos collected of significant soil cores, as determined by AECOM Geologist.

Photo 3. AECOM and New England Geotech collect samples via hand-auger at H-22.

Photo 4. Drum at H-22.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/8/2016 Wednesday

DR No. 9		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F	Sunny	**Days without a lost time injury:**	9

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Kelly Lurie	11.5	SSHO	AECOM	YSI 6920 Water Level Meter (3)	Megan Cullen, USACE
Amanda Martin	11.5	Site Supervisor	AECOM	GeoTech Peristaltic Pump (1)	PJ Mion, USACE
Brendan McGuinness	11.5	Technical Lead	AECOM	Solonist Water Level Meter (2)	Paul Young, USACE
Nicole Schulman	10	Geologist	AECOM	PID MiniRae 3000 (4)	
Mike Glinski	11.5	Geologist	AECOM	PID MiniRae 2000 (1)	
Katie Priess	11.5	Environmental Scientist	AECOM	MIE DR-4000 Dust Monitor (2)	
Nina Bennerson	11.5	UXO Tech II	AECOM	Shondstadt Magnetometer	
Keith Precious	10.25	Driller	NE Geotech	Direct Push Rig (2)	
Mike Podany	10.25	Driller	NE Geotech		
DAILY TOTAL	99.5				
TOTAL TO DATE	551.5	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
New England Geotech	None

WORK AND SAMPLING PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Geoprobe borings were completed at the following AOCs.

Former Building 2010 (UST 30). Two soil borings were advanced (SB01 and SB02):

- 2010-SB01: four soil samples were collected (0 - 4, 4 - 5, 5 - 6, 6 - 7 ft bgs) for lead analysis only. One MS/MSD sample was collected at 2010-SB02-04. A temporary well was set at this location because there was no water. PJ Mion (USACE Geologist) agreed with this assessment.
- 2010-SB02: four soil samples were collected (0 - 4, 4 - 5, 5 - 6, 6 - 7 ft bgs) for lead analysis only. Two duplicate samples were collected at at 2010-SB02-04 and 2010-SB02-05. A temporary well was set at this location.

Site-Wide Waste Disposal System (WDS). One soil boring was completed (SB20).

- WDS-SB20. One soil sample was collected from 5 - 6 ft bgs for analysis of VOCs, SVOCs/PAHs, PCBs, and metals.

Suspected Tank B (STB). Four borings were completed at STB (SB01 through SB04). One subsurface soil sample was collected from each soil boring. at the water table. Three additional surface soil samples were collected via hang-auger (SS05 through SS07). Samples were collected for analysis of NYSDEC STARs fuel oil list VOCs and SVOCs.

Groundwater Sampling was completed at the following AOCs.

H-11. Groundwater sampling was completed at the temporary well H11-SB01 for analysis of PAHs and metals.

Site-Wide Waste Disposal System (WDS). Groundwater sampling was completed at temporary wells set in borings WDS-SB22, WDS-SB25, and WDS-SB26 for analysis of VOCs, SVOCs/PAHs, PCBs, and metals. Duplicate samples were collected at WDS-SBB22 and WDS-SB26. The field team origionally attempted to sample WDS-SB27 on Tuesday 6/7/2016, but groundwater recharge was not sufficent to collect the sample volume. The field team decided to leave the well overnight to recharge (per discussion with USACE); however, on Wednesday 6/8/16, the well had still not sufficiently recharged to collect sufficent sample volume. Therefore, only VOCs, PAHs and metals samples were collected at WDS-SB27. Full analysis was obtained from adjacent wells WDS-SB25 and WDS-SB26.

Sample Management and Shipment

Soil and groundwater samples collected on Wednesday 6/8/2016 were checked for Quality Control, recorded on Chain of Custody records, and packed for shipment. Six coolers were delivered to FedEx in East Hampton, NY, and shipped overnight to RTI Labortories (Livonia, MI). Chain of Custody records were e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking.

Other Activities

Test pits were conducted at Suspected Tank C. Miscellaneous building debris was uncovered. No evidence of a Tank was identified. Pictures of test pits and debris have been uploaded to the project sharepoint site.

Waste oil cans and containers inside Building 10 were inspected by the AECOM UXO technician and USACE project team. No UXO was identified inside the building. Pictures of waste cans have been uploaded to the project sharepoint site.

The AECOM team held an evening meeting to review the site plans, field progress, and discuss concerns that USACE had brought up over the course of the field work. Specific items such as review of AOC sampling approach prior to field work, decontamination, and control of the pace of sampling by the drilling teams, and field notation were included in the review.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/8/2016 Wednesday

DR No. 9		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geoprobe completed borings and set temporary wells at AOCs former Building 2010 (SB01 and SB02). Temporary wells were abandoned at WDS-SB25, WDS-SB26, and H11-SB02.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Further attempts to collect sufficient groundwater sample for all the proposed analysis at temporary well location WDS-SB27 had was discontinued due to inadequate recharge after 48 hours and complete groundwater analyses were not collected. Building 2010 lead analysis of soil at former UST- One of two temporary wells was not installed due to a steep grade next to building. Because residual petroleum was noted in soil at the suspected tank B site, four subsurface soil samples and three surface soil samples were obtained. No tank was identified through test pits and hand held magnetometer. No tank or impacted soil was observed at suspected tank C, and no further sampling was conducted as discussed with the USACE project team.

REQUEST FOR INFORMATION (RFI)

- None

TRANSMITTALS / SUBMITTALS

- None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/9/2016 Thursday

DR No. 10		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F	Sunny	**Days without a lost time injury:**	10

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Kelly Lurie	11.5	SSHO	AECOM	YSI 6920 Water Level Meter (3)	Megan Cullen, USACE
Amanda Martin	11.5	Site Supervisor	AECOM	GeoTech Peristaltic Pump (1)	PJ Mion, USACE
Brendan McGuinness	11	Technical Lead	AECOM	Solonist Water Level Meter (2)	Paul Young, USACE
Nicole Schulman	11	Geologist	AECOM	PID MiniRae 3000 (4)	
Mike Glinski	11.5	Geologist	AECOM	PID MiniRae 2000 (1)	
Katie Priess	11.5	Environmental Scientist	AECOM	MIE DR-4000 Dust Monitor (2)	
Nina Bennerson	11.5	UXO Tech II	AECOM	Shondstadt Magnetometer	
Keith Precious	8.75	Driller	NE Geotech	Direct Push Rig (2)	
Mike Podany	8.75	Driller	NE Geotech		
John Hudson	8	Veg Removal	CGE	Brush Hog Mower, Chain Saw	
Anthony Fiorintine	8	Veg Removal	CGE	Trimmer	
DAILY TOTAL	113				
TOTAL TO DATE	664.5	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
New England Geotech	None

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Soil Sampling

Geoprobe borings were completed and soil samples were collected at the following AOCs.

Background Loaction 01. Borings SB01 through SB04 (surface soil and subsurface soil) and SS05 through SS08 (surface soil only).

Per RI WP, no temporary wells were set in Background location borings because no groundwater will be collected in Phase 1.

H-17. Borings SB01 through SB03, surface soil samples were collected. No groundwater was encountered - sandy lithology caused borholes to collapse after removing rod; therefore, boreholes could only be advanced to approximately 20 ft bgs.

AECOM Geologist recommends returning with steel casing to advance borings to 35 ft bgs, and use DPT inside casing to obtain groundwater.

Groundwater Sampling

Temporary wells were reinstalled at H-12 (SB01), WDS-SB03, and WDS-SB24 to 15 ft bgs (5 ft deeper than original boring) with a 10-foot screen, in order to obtain sufficient groundwater to fill sample bottleware. All reinstalled wells had much greater recharge than the orginial temporary wells.

After reinstallation of temporary wells, groundwater samples were collected at H12-SB01 (plus MS/MSD), WDS-SB23 (plus duplicate), and WDS-SB24.

Additionally, PVC plugs were purchased to provide well caps for temporary wells.

UXO Anomaly Avoidance

UXO Anomaly Avoidance was performed at the following AOCs. All areas were cleared.

AST-35	*H-2*	*Fuel Pump House and Distribution Line*
Building 201	*H-4*	*WDS-SB10*
Building 203	*H-6*	*WDS-SB12*
Building 34	*H-14*	*WDS-SB13*
	H-17	*WDS-SB19*

Site Survey

The fuel pump house distribution line was further traced with a hand-held magnetometer. Hand digging along the distribution line from the pumphouse showed that the distribution line had been cut and removed after approximately 6-feet from the fuel house (see photograph below). Soil excavated from around the existing fuel line did not indicate noticable staining or petroeum odor.

Vegetation Removal

AECOM directed vegetation clearing of AOCs at background sampling locations.

Flagging/Designation of Sample Locations

Brendan McGuinness (Technical Lead) flagged sample locations at AOCs H-2, H-4, H-5, H-6, H-14, H-15, H-21, H-35, and the fuel pump house, Former Buidling 34, and multiple locations of the site wide sanitary system.

Sample Management and Shipment

Soil and groundwater samples collected on Wednesday 6/8/2016 we Quality Control checked, recorded on Chain of Custody records, and packed for shipment.

Seven coolers were delivered to FedEx in East Hampton, NY, and shipped overnight to RTI Labortories (Livonia, MI). Chain of Custody records were e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/9/2016 Thursday

DR No. 10		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geotech

New England Geotech completed borings and set temporary wells at Background 01 (SB01 through SB04) and AOC H-17 (SB01 through SB03). Additionally, Keith Precious purchased PVC caps as well covers. 'NE Geotech abandoned borings H12-SB01, WDS-SB23, and WDS-SB24.

Clean Globe Environment

CGE completed vegetation removal activities at Background Sampling locations.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

H-12: Due to the slow recharge of groundwater to temporary wells installed at H-12, two wells were redrilled and installed due to concerns of overnight rain infiltration through fill material at these locations which were screened within fill material.

FPH: After the Fuel Pump House distribution line was determined to be cut approximately 6 ft from the pump house, further borings which were scheduled as part of Phase 1 along the fuel distribution line area which was removed were suspended pending the results of initial borings near the fuel pump house.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

New England Geotech needs to get an additional 20 ft of steel casing in order to complete borings to groundwater at location H-17. Also, NE Geotech needs to change decontamination water more often - muddy water was noticed by AECOM team members.

Superintendent (Signature):

Amanda Martin

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/9/2016 Thursday

DR No. 10		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Daily Photos

Photo 1. The Fuel Pump House distribution was located with the magnetometer. Hand-digging indicated that the line had been cut and removed after approximately 6-feet from the fuel house.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/10/2016 Friday

DR No. 11		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F	Sunny	**Days without a lost time injury:**	11

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Kelly Lurie	11.5	SSHO	AECOM	YSI 6920 Water Level Meter (3)	PJ Mion, USACE
Amanda Martin	11.5	Site Supervisor	AECOM	GeoTech Peristaltic Pump (1)	Paul Young, USACE
Nicole Schulman	11	Geologist	AECOM	PID MiniRae 3000 (4)	
Mike Glinski	11.5	Geologist	AECOM	PID MiniRae 2000 (1)	
Katie Priess	11.5	Environmental Scientist	AECOM	MIE DR-4000 Dust Monitor (2)	
Nina Bennerson	11.5	UXO Tech II	AECOM	Shondstadt Magnetometer	
Keith Precious	8.5	Driller	NE Geotech	Direct Push Rig (2)	
Mike Podany	8.5	Driller	NE Geotech	Vegetation Removal Equipment:	
John	8	Veg Removal	CGE	*Brush Hog*	
Anthony	8	Veg Removal	CGE	*Chain saw*	
				Handsaw	
				Weed-Wacker	
DAILY TOTAL	101.5				
TOTAL TO DATE	765.5	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
New England Geotech	None
Clean Globe Environmental	

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Soil Sampling

Geoprobe borings were completed and soil samples were collected at the following AOCs.

Background Location 02. Borings SB01 through SB04 (surface soil and subsurface soil) and SS05 through SS08 (surface soil only). Surface and subsurface soil samples were collected for analysis of PAHs and metals. No temporary wells were set in Background location borings because background groundwater samples will not be collected in Phase 1, per the RI WP.

Background Location 03. Borings SB01 through SB04 (surface soil and subsurface soil) and SS05 through SS07 (surface soil only). Surface and subsurface soil samples were collected for analysis of PAHs and metals. No temporary wells were set in Background location borings because background groundwater samples will not be collected in Phase 1, per the RI WP.

Building F100C (UST 34). Borings SB01 and SB02 were completed. Four soil samples were collected per boring. Additional QC (DUP and MS/MSD) samples were collected. Temporary wells were installed in the borings; the team will return to collect groundwater samples at a later date.

Groundwater Sampling

Groundwater samples were collected at AOC Suspected Tank B locations STB-SB01 (upgradient) and STB-SB03 (downgradient) for analysis of the NYSDEC STARS List for Fuel Oil VOCs and SVOCs. An MS/MSD sample was collected at STB-SB01. *Note that samples were only collected at two of the four temporary wells at AOC STB, a deviation from the RI WP because no tank was found to be in place, per discussion with Brendan McGuinness and PJ Mion on 6/8/2016. (See DR from 6/8/2016 for details).*

UXO Anomaly Avoidance

UXO Anomaly Avoidance was performed at the following AOCs. All areas were cleared.

BG02	*H-21*	*F100C*
BG03	*EFO*	*WDS-SB01*
P113	*MP*	*WDS-SB02*
H-15	*H-16*	*WDS-SB03*

Vegetation Removal

AECOM directed vegetation clearing of AOCs FPH, H-16, H-15, WDS (SB01 to SB03), and Building 203.

Flagging/Designation of Sample Locations

AECOM flagged sample locations at AOCs Plotting Room 113 and H-22. The team attempted (again) to locate AOC H-8 (identified in the Cashin Report) and could not locate it after over an hour of searching.

Sample Management and Shipment

Soil and groundwater samples collected on Thursday 6/9/2016 we Quality Control checked, recorded on Chain of Custody records, and packed for shipment. Eight coolers were shipped overnight via FedEx for Saturday delivery to RTI Labortories (Livonia, MI). Chain of Custody records were e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking.

Site Management

AECOM developed a Field Tasks Tracking Sheet, organized by AOC, to better manage which tasks have and have not been completed. The tracking sheet will be updated daily and attached to the Daily Report.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/10/2016 Friday

DR No. 11		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geotech

New England Geotech completed borings at locations Background 02 and Background 03 (SB01 through SB04). No temporary wells were set in background locations. NEG completed borings and installed temporary wells at AOC Building F100C (SB01 and SB02). Additionally, NEG abandoned borings WDS-SB22 and WDS-SB27.

Clean Globe Environment

CGE completed vegetation removal activities at AOCs FPH, H-16, H-15, WDS (SB01 to SB03), and Building 203.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

The AECOM Project Manager (Mark MacEwan) and Site Supervisor (Amanda Martin) discussed the necessity of installing the four piezometers in the vicinity of AOCs Fuel Pump Houst, AST-35, Building 201, and former Building 203. The purpose of these piezometers was to gauge water levels only; however, temporary wells are being installed in the same vicinity as the piezometers which will be sufficient for determining groundwater elvetations. Therefore, the piezometers will not be installed.

Additionally, because groundwater elevation data cannot be determined without surveying the temporary wells, it was decided that all temporary wells should be left in place (not abandoned) during Phase 1 and be surveyed after the sampling event so that groundwater elevations throughout Camp Hero State Park could be determined. This information will be essential in deciding the placement of permanent monitoring wells, should that be necessary, during the Phase 2 field field operations.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

The team noted that the grass near Buildings 107, 201, and former 203 was very high and many team members had ticks crawling on their clothing after entering the area to locate nearby soil boring locations. As such, a request was made to Tom Dess (State Park Superintendent) to mow the lawn in the area, if possible. Mr. Dess indicated that the park management team intended to mow the area in the near future, but it was a low priority compared to other areas of the park. The area may or may not be mowed prior to AECOM working in the area, and AECOM may need to consider vegetation clearance (mowing the grass) in the area. The CGE vegetation removal crew did not have a lawn mower as part of their equipment; thus, mowing the grass in the area could not be completed on 6/10/16.

SITE OBSERVATIONS

AECOM attempted to locate H-8 for the third time this week (with the third group of people). Over eight team members have spent 8+ hours searching for H-8 to no avail. No further attempts will be made to locate H-8 and no samples will be collected associated with that AOC.

Superintendent (Signature):

Amanda Martin

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/10/2016

AOC ID	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
B113	Battery 113	113-CC01								
		113-CC02								
		113-CC03								
		113-LC01 to LC03								
203	Former Building 203	203-SB01	BMG 6/9/16	NB 6/9/16						
		203-SB02	BMG 6/9/16	NB 6/9/16						
		203-SB03	BMG 6/9/16	NB 6/9/16						
		203-SB04	BMG 6/9/16	NB 6/9/16						
		203-SB05	BMG 6/9/16	NB 6/9/16						
2010	Building 2010 (UST 30)	2010-SB01	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16			
		2010-SB02	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16			
F100C	Building F100C (UST 34)	F100C-SB01	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16			
		F100C-SB02	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16			
AST35	AST 35/H-13	AST35-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016					
		AST35-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016					
		AST35-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016					
		AST35-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016					
FPH	Fuel Pump House and Distribution Line for AST-35	FPH-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16					
		FPH-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16					
		FPH-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16					
		FPH-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16					
STB	Building 22 (Tank B)	STB-SB01	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB02	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16			
		STB-SB03	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB04	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16			
		STB-SS05	BMG 6/7/16	NB 6/7/16	NA		MG 6/8/16			
		STB-SS06	BMG 6/7/16	NB 6/7/16	NA		MG 6/8/16			
		STB-SS07	BMG 6/7/16	NB 6/7/16	NA		MG 6/8/16			
3001	Building 3001	3001-MW01								
112	Battery 112 (UST 36, 37)	112-CC01								
		112-CC02								
		112-CC03								
107	Building 107	107-LC01								
201	Building 201	201-SB01	BMG 6/9/16	NB 6/9/16						
		201-WP01								
WDS	Abandoned Waste Disposal Systems (Site-wide)	WDS-SB01	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		WDS-SB02	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		WDS-SB03	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		WDS-SB04								
		WDS-SB05								
		WDS-SB06								
		WDS-SB07	NS 6/10/16	NB 6/10/16						
		WDS-SB08								
		WDS-SB09	NS 6/10/16	NB 6/10/16						
		WDS-SB10	BMG 6/9/16	NB 6/9/16						
		WDS-SB11								
		WDS-SB12	BMG 6/9/16	NB 6/9/16						
		WDS-SB13	BMG 6/9/16	NB 6/9/16						
		WDS-SB14								
		WDS-SB15								
		WDS-SB16								
		WDS-SB17								
		WDS-SB18								
		WDS-SB19	BMG 6/9/16	NB 6/9/16						
		WDS-SB20	BMG/NS 6/6/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16			
		WDS-SB21	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16			
		WDS-SB22	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB23	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/10/2016

AOC ID	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
		WDS-SB24	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KL 6/9/16		
		WDS-SB25	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB26	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB27	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
MP	Motor Pool	MP-SB01	BMG 6/9/16	NB 6/10/16	NA					
		MP-SB02	BMG 6/9/16	NB 6/10/16	NA					
		MP-SB03	BMG 6/9/16	NB 6/10/16	NA					
		MP-MW01								
EFO	Engineering Field Office	EFO-SB01	BMG 6/9/16	NB 6/9/16	NA					
034	Former Building 34	034-SB01	BMG 6/9/16	NB 6/9/16						
		034-SS02	BMG 6/9/16	NB 6/9/16						
		034-SS03	BMG 6/9/16	NB 6/9/16						
		034-SS04	BMG 6/9/16	NB 6/9/16						
		034-SS05	BMG 6/9/16	NB 6/9/16						
H1	H-1	H1-SS01	NS/AM 6/6/16							
		H1-SS02	NS/AM 6/6/16							
		LC Samples	NS/AM 6/6/16							
H2	H-2	H2-SS01	BMG 6/9/16	NB 6/9/16						
		H2-SS02	BMG 6/9/16	NB 6/9/16						
		LC Samples	BMG 6/9/16	NB 6/9/16						
H3	H-3	H3-SS01	NS 6/6/16				MG/KP 6/7/16			
		H3-SS02	NS 6/6/16				MG/KP 6/7/16			
		LC Samples	NS 6/6/16						No Liquid Present	
H4	H-4	H4-SB01	BMG 6/9/16	NB 6/9/16						
		H4-SB02	BMG 6/9/16	NB 6/9/16						
		H4-SB03	BMG 6/9/16	NB 6/9/16						
H5	H-5	H5-SS01								
		H5-SS02								
		H5-SS03								
		H5-SS04								
		LC Samples								
H6	H-6	H6-SB01	BMG 6/9/16	NB 6/9/16						
		H6-SB02	BMG 6/9/16	NB 6/9/16						
		H6-SB03	BMG 6/9/16	NB 6/9/16						
H9	H-9	H9-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
		H9-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
H11	H-11	H11-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		H11-SB02	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	MG/KP 6/7/16		
H12	H-12	H12-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
H14	H-14	H14-SB01	BMG 6/9/16	NB 6/9/16	NA					
		H14-SB02	BMG 6/9/16	NB 6/9/16	NA					
		H14-SB03	BMG 6/9/16	NB 6/9/16	NA					
H15	H-15	H15-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		H15-SB02	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		H15-SB03	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
H16	H-16	H16-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
H17	H-17	H17-SB01	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB02	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB03	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB01 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
		H17-SB02 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
		H17-SB03 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
H18	H-18	H18-SS01	BMG 6/7/16	NB 6/7/16						
		H18-SS02	BMG 6/7/16	NB 6/7/16						
		LC Samples	BMG 6/7/16	NB 6/7/16						
H19	H-19	H19-SS01	NS 6/6/16	NB 6/6/16	NA					
		H19-SS02	NS 6/6/16	NB 6/6/16	NA					
		H20-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/10/2016

AOC ID	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
H20	H-20	H20-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		LC Samples	NS 6/6/16	NB 6/6/16					No Liquid Present	
H21	H-21	H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA					
		H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA					
		H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA					
H22	H-22	H22-SS01	NS 6/10/16							
		H22-SS02	NS 6/10/16							
		LC Samples	NS 6/10/16							
P113	Plotting Room 113	P113-SB01	NS 6/10/16	NB 6/10/16	NA					
		P113-SB02	NS 6/10/16	NB 6/10/16	NA					
		P113-SB03	NS 6/10/16	NB 6/10/16	NA					
AGC3	Camp Hero State Park Bluffs	NA								
BG01	Background Samples	BG01-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS08	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
BG02	Background Samples	BG02-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS08	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
BG03	Background Samples	BG03-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
BG04	Background Samples	BG04-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16					

Note: The Field Task Tracking Sheet is still in development as of 6/10/2016 and will be further updated by the field crew and included in future Daily Reports.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/12/2016 Sunday

DR No. 12		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F	Sunny	**Days without a lost time injury:**	12

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Kelly Lurie	10.5	SSHO	AECOM	YSI 6920 Water Level Meter (3)	
Amanda Martin	10.5	Site Supervisor	AECOM	GeoTech Peristaltic Pump (1)	
Nicole Schulman	10	Geologist	AECOM	PID MiniRae 3000 (4)	
Mike Glinski	10.5	Geologist	AECOM	PID MiniRae 2000 (1)	
Katie Priess	10.5	Environmental Scientist	AECOM	MIE DR-4000 Dust Monitor (2)	
Nina Bennerson	10.5	UXO Tech II	AECOM	Shondstadt Magnetometer	
Keith Precious	8.5	Driller	NE Geotech	Direct Push Rig 6620 (Track)	
Mike Podany	8.5	Driller	NE Geotech	Direct Push Rig (Truck)	
John Hudson	8	Geologist	CGE		
DAILY TOTAL	87.5	765.5			
TOTAL TO DATE	853	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
New England Geotech	None
Clean Globe Environmental	

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Soil Sampling

Geoprobe borings were completed and soil samples were collected at the following AOCs.

AST35. Four borings (FPH-SB01 through FPH-SB04) were completed. Soil samples were collected for analysis of the NYSDEC STARs List for Fuel Oil VOCs and SVOCs. Temporary wells were installed in the borings; the team will return to collect groundwater samples at a later date.

Fuel Pump House and Distribution Line (FPH). Four borings (FPH-SB01 through FPH-SB04) were completed. Soil samples were collected for analysis of the NYSDEC STARs List for Fuel Oil VOCs and SVOCs. Petroleum odor was noted at FPH-SB04 throughout the depth of the boring. Maximum PID reading was 203 PPM at 9 to 10 ft bgs. Temporary wells were installed in the borings; the team will return to collect groundwater samples at a later date.

H-6. Three borings were completed (H6-SB01 through H6-SB03). Soil samples were collected for analysis of PCBs and lead. Temporary wells were installed in the borings; the team will return to collect groundwater samples at a later date.

H-4. Three borings were completed (H4-SB01 through H4-SB03). Soil samples were collected for analysis of PCBs and lead. Temporary wells were installed in the borings; the team will return to collect groundwater samples at a later date.

Waste Disposal System (WDS) - Site Wide. One boring was completed (WDS-SB10). Soil samples were collected for analysis of VOCs, SVOCs, PCBs, and metals. A temporary wells was installed in the boring; the team will return to collect a groundwater sample at a later date.

Plotting Room 113 (P113). Three borings were completed (P113-SB01 through P113-SB03). Soil samples were collected for the NYSDEC STARS List for Fuel Oil and Gasoline VOCs, SVOCs, and lead. Temporary wells were installed in the borings; the team will return to collect groundwater samples at a later date.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

Note that depth to groundwater was very shallow (as shallow as 1 ft bgs) at FPH, AST35, P113, and H-6. Therefore, surface only one soil sample (0 - 1 ft bgs) was collected at some borings.

Groundwater Sampling

Groundwater samples were collected at the following AOCs.

Building F100C (UST 34). Two groundwater samples (from F100C-SB01 and F100C-SB02) were collected for analysis of lead.

Building 2010 (UST 30). One groundwater sample (from F100C-SB02) was collected for analysis of lead.

Waste Disposal System (WDS) - Site Wide. Two groundwater samples were collected from WDS-SB20 and WDS-SB21 for analysis of VOCs, SVOCs, PCBs, and metals. Sampling at WDS-SB20 was incomplete due to insufficient recharge in the well; the team will allow the well to recharge overnight and return the following morning to fill the remainder of the bottlware.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

UXO Anomaly Avoidance

No UXO Anomaly Avoidance was performed on 6/12/2016, as all areas where drilling occurred had been pre-cleared by the UXO Tech the previous week. However, the UXO Tech was present as an added safety precaution during drilling at AOC H-4 due to the presence of surface and potential subsurface debris. No debris was encountered in the borings.

Flagging/Designation of Sample Locations

AECOM flagged sample locations at AOCs WDS (SB14 through SB17).

Sample Management and Shipment

Soil and groundwater samples collected on Friday 6/10/16 and Sunday 6/12/2016 weew Quality Control-checked and recorded on Chain of Custody records.

No coolers were shipped (FedEx closed on Sundays) but the coolers were prepared for packing and shipping on Monday 6/13/16.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/12/2016 Sunday

DR No. 12		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geotech

New England Geotech completed borings at AOCs AST 35 (SB01 through SB04), FPH (SB01 through SB04), H-6 (SB01 through SB03), H-4 (SB01 through SB03), WDS (SB10), and Plotting Room 113 (SB01 through SB03). Additionally, NEG "shallow" soil borings at H-18 (SS01 through SS02) for the collection of surface and near-surface samples.

Clean Globe Environment

John Hudson (CGE) assisted Nicole Schulman (AECOM) with soil sampling and logging at AOCs FPH, H-6, H-4, and P113. Additionaly, he assisted with sample QC and cooler packing.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

None

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B).
No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

Poison ivy was noted to be prevalent at AOCs FPH, AST35, H-6, and P113. The team used caution to avoid the plants and discussed procedure for poison ivy treatment in case of exposure.

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/12/2016 Sunday

DR No. 12		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Daily Photos

Photo 1. AECOM performing PID screening of soil boring at AST35.

Photo 2. AECOM completing litologic loging and sample collection from soil boring at AST 35.

Photo 3. New England Geotech collecting soil core at AST35 with Direct Push Geoprobe 6620.

Photo 4. AECOM and CGE completing litologic loging and sample collection from soil boring at FPH.

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/12/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
B113	Battery 113	113-CC01								
		113-CC02								
		113-CC03								
		113-LC01 to LC03								
203	Former Building 203	203-SB01	BMG 6/9/16	NB 6/9/16						
		203-SB02	BMG 6/9/16	NB 6/9/16						
		203-SB03	BMG 6/9/16	NB 6/9/16						
		203-SB04	BMG 6/9/16	NB 6/9/16						
		203-SB05	BMG 6/9/16	NB 6/9/16						
2010	Building 2010 (UST 30)	2010-SB01	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	No Well		
		2010-SB02	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	KL 6/12/16		
F100C	Building F100C (UST 34)	F100C-SB01	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
		F100C-SB02	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
AST35	AST 35/H-13	AST35-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16			
		AST35-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16			
		AST35-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16			
		AST35-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16			
FPH	Fuel Pump House and Distribution Line for AST-35	FPH-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16			
		FPH-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16			
		FPH-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16			
		FPH-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16			
STB	Building 22 (Tank B)	STB-SB01	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB02	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SB03	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB04	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SS05	BMG 6/7/16	NB 6/7/16	NA		MG 6/8/16			
		STB-SS06	BMG 6/7/16	NB 6/7/16	NA		MG 6/8/16			
		STB-SS07	BMG 6/7/16	NB 6/7/16	NA		MG 6/8/16			
3001	Building 3001	3001-MW01								
112	Battery 112 (UST 36, 37)	112-CC01								
		112-CC02								
		112-CC03								
107	Building 107	107-LC01								
201	Building 201	201-SB01	BMG 6/9/16	NB 6/9/16						
		201-WP01								
WDS	Abandoned Waste Disposal Systems (Site-wide)	WDS-SB01	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		WDS-SB02	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		WDS-SB03	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		WDS-SB04	NS 6/10/16							
		WDS-SB05	NS 6/10/16							
		WDS-SB06								
		WDS-SB07	NS 6/10/16	NB 6/10/16						
		WDS-SB08	BMG 6/9/16	NG 6/10/16						
		WDS-SB09	NS 6/10/16	NB 6/10/16						
		WDS-SB10	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16			
		WDS-SB11	AM 6/12/16							
		WDS-SB12	BMG 6/9/16	NB 6/9/16						
		WDS-SB13	BMG 6/9/16	NB 6/9/16						
		WDS-SB14	NS 6/12/16							
		WDS-SB15	NS 6/12/16							
		WDS-SB16	NS 6/12/16							
		WDS-SB17	NS 6/12/16							
		WDS-SB18	NS 6/6/16							
		WDS-SB19	NS 6/6/16	NB 6/9/16						
		WDS-SB20	BMG/NS 6/6/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/12/16		
		WDS-SB21	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/12/16		
		WDS-SB22	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB23	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
		WDS-SB24	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KL 6/9/16		
		WDS-SB25	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/12/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
		WDS-SB26	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB27	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
MP	Motor Pool	MP-SB01	BMG 6/9/16	NB 6/10/16	NA					
		MP-SB02	BMG 6/9/16	NB 6/10/16	NA					
		MP-SB03	BMG 6/9/16	NB 6/10/16	NA					
		MP-MW01								
EFO	Engineering Field Office	EFO-SB01	BMG 6/9/16	NB 6/9/16	NA					
034	Former Building 34	034-SB01	BMG 6/9/16	NB 6/9/16						
		034-SS02	BMG 6/9/16	NB 6/9/16						
		034-SS03	BMG 6/9/16	NB 6/9/16						
		034-SS04	BMG 6/9/16	NB 6/9/16						
		034-SS05	BMG 6/9/16	NB 6/9/16						
H1	H-1	H1-SS01	NS/AM 6/6/16							
		H1-SS02	NS/AM 6/6/16							
		LC Samples	NS/AM 6/6/16							
H2	H-2	H2-SS01	BMG 6/9/16	NB 6/9/16						
		H2-SS02	BMG 6/9/16	NB 6/9/16						
		LC Samples	BMG 6/9/16	NB 6/9/16						
H3	H-3	H3-SS01	NS 6/6/16				MG/KP 6/7/16			
		H3-SS02	NS 6/6/16				MG/KP 6/7/16			
		LC Samples	NS 6/6/16						No Liquid Present	
H4	H-4	H4-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
		H4-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16			
		H4-SB03	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
H5	H-5	H5-SS01	BMG/NS 6/9/16							
		H5-SS02	BMG/NS 6/9/16							
		H5-SS03	BMG/NS 6/9/16							
		H5-SS04	BMG/NS 6/9/16							
		LC Samples	BMG/NS 6/9/16							
H6	H-6	H6-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
		H6-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16			
		H6-SB03	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16			
H9	H-9	H9-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
		H9-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
H11	H-11	H11-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		H11-SB02	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	MG/KP 6/7/16		
H12	H-12	H12-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
H14	H-14	H14-SB01	BMG 6/9/16	NB 6/9/16	NA					
		H14-SB02	BMG 6/9/16	NB 6/9/16	NA					
		H14-SB03	BMG 6/9/16	NB 6/9/16	NA					
H15	H-15	H15-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		H15-SB02	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		H15-SB03	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
H16	H-16	H16-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
H17	H-17	H17-SB01	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB02	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB03	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB01 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
		H17-SB02 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
		H17-SB03 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
H18	H-18	H18-SS01	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		H18-SS02	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		LC Samples	BMG 6/7/16	NB 6/7/16						
H19	H-19	H19-SS01	NS 6/6/16	NB 6/6/16	NA					
		H19-SS02	NS 6/6/16	NB 6/6/16	NA					
H20	H-20	H20-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		H20-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		LC Samples	NS 6/6/16	NB 6/6/16					No Liquid Present	
H21	H-21	H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA					
		H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA					
		H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA					

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/12/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
H22	H-22	H22-SS01	NS 6/10/16							
		H22-SS02	NS 6/10/16							
		LC Samples	NS 6/10/16							
P113	Plotting Room 113	P113-SB01	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16			
		P113-SB02	NS 6/10/16	NB 6/10/16	NA	MP/KP 6/12/16	MP/KP 6/12/16			
		P113-SB03	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16			
AGC3	Camp Hero State Park Bluffs	NA								
BG01	Background Samples	BG01-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS08	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
BG02	Background Samples	BG02-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS08	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
BG03	Background Samples	BG03-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
BG04	Background Samples	BG04-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16					

Note: Tasks completed on 6/12/16 are highlighed in green.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/13/2016 Sunday

DR No. 13		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F	Sunny	**Days without a lost time injury:** 13	

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Kelly Lurie	11	SSHO	AECOM	YSI 6920 Water Level Meter (3)	
Amanda Martin	11	Site Supervisor	AECOM	GeoTech Peristaltic Pump (1)	
Nicole Schulman	10.5	Geologist	AECOM	PID MiniRae 3000 (4)	
Mike Glinski	11	Geologist	AECOM	PID MiniRae 2000 (1)	
Katie Priess	11	Environmental Scientist	AECOM	MIE DR-4000 Dust Monitor (2)	
Nina Bennerson	11	UXO Tech II	AECOM	Shondstadt Magnetometer	
Keith Precious	8.5	Driller	NE Geotech	Direct Push Rig 6620 (Track)	
Mike Podany	8.5	Driller	NE Geotech	Direct Push Rig (Truck)	
John Hudson	10	Geologist	CGE		
DAILY TOTAL	92.5				
TOTAL TO DATE	947.5	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
New England Geotech (NE Geotech)	None
Clean Globe Environmental (CGE)	

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day. John Schroeder arrived on-site for the first day and received UXO Anomaly Awareness Training and revewied all applicable AHAs in the APP.

Soil Sampling

Geoprobe borings were completed and soil samples were collected at the following AOCs.

Motor Pool. Two borings (MP-SB02 and -SB03) were completed. Soil samples were collected for analysis of the NYSDEC STARs List for Fuel Oil VOCs and SVOCs, energetics, and PCBs. Temporary wells were installed in the borings; the team will return to collect groundwater samples at a later date.

Engineering Field Office (EFO). One boring (EFO-SB01) was completed. Soil samples were collected for analysis of energetics. A temporary well was installed in the borings the team will return to collect the groundwater sample at a later date.

H-5. Four co-located sets of surface soil and near-surface soil samples were collected (H5-SS01 through H5-SS04). Soil samples at H5-SS01 and -SS02 were collected for analysis of VOCs, SVOCs, PCBs, and metals. Soil samples at H5-SS03 and -SS04 were collected for analysis of PCBs and lead.

H-14. Three borings were completed (H14-SB01 through H14-SB03). Soil samples were collected for analysis of PAHs and metals. Water was not encountered in H14-SB01; the team advanced the boring to 25 ft bgs (per the RI WP). The team will check to see if water has entered the boring the following morning. Temporary wells were installed in the borings; the team will return to collect groundwater samples at a later date. If no water has entered H14-SB01, an alternative plan will be discussed with the Technical Lead, Brendan McGuinness, and the USACE Geologist, PJ Mion.

H-16. One boring was completed (H16-SB01). Soil samples were collected for analysis of VOCs, SVOCs, PCBs, and metals. A temporary well was installed in the boring; the team will return to collect a groundwater sample at a later date.

Waste Disposal System (WDS) - Site Wide. Five borings were completed (WDS-SB08, -SB09, -SB11, -SB12, -SB13). Soil samples were collected for analysis of VOCs, SVOCs, PCBs, and metals. Temporary wells were installed in the borings; the team will return to collect a groundwater sample at a later date.

Former Building 34 (034). One boring (034-SB01) was completed. Soil samples were collected for analysis of PAHs, PCBs, and metals. Additionally, four co-located sets of surface soil and near-surface soil samples (034-SS02 through 034-SS05) were collected for the same analyses. A temporary well was installed in the boring; the team will return to collect a groundwater sample at a later date.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

Groundwater Sampling

Groundwater samples were collected at the following AOCs.

Fuel Pump House (FPH). Three groundwater samples (from FPH-SB02, FPH-SB03, and FPH-SB04) were collected for analysis of VOCs and SVOCs.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

UXO Anomaly Avoidance

No UXO Anomaly Avoidance was performed on 6/13/2016, as all areas where drilling occurred had been pre-cleared by the UXO Tech the previous week.

Flagging/Designation of Sample Locations

AECOM flagged sample locations at AOCs WDS (SB06 and SB07).

Sample Management and Shipment

Soil and groundwater samples collected collected on Sunday 6/12/16 were Quality Control checked, recorded on Chain of Custody records, and packed for shipment. Additionally, the coolers which were prepared on Sunday 6/12/16 (samples from Friday 6/10/16) were packed for shipment. Eleven coolers were shipped overnight via FedEx for delivery to RTI Labortories (Livonia, MI) on Tuesday 6/14/16. Chain of Custody records were e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/13/2016 Sunday

DR No. 13		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geotech

New England Geotech completed 13 borings total between AOCs WDS, EFO, MP, H-16, Former Building 34, and H-14.
Additionally, NEG completed 8 "shallow" soil borings at former Building 34 and H-5 for the collection of surface and near-surface soil samples.

Clean Globe Environment

John Hudson (CGE) assisted Nicole Schulman (AECOM) with soil sampling and logging at AOCs WDS, EFO, MP, Former Building 34, and H-14.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess, Camp Hero State Park Superintendent, was unaware that drilling was planned to occur inside the Motor Pool building adjacent to the former hydraulic lift. However, Mr. Dess indicated that it would not be a problem and that he would coordinate with the necessary employees to schedule the drilling inside the Motor Pool at 0900 on Tuesday 6/14/16.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B).
No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/14/2016 Tuesday

DR No. 14		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F	Sunny	**Days without a lost time injury:**	14

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Kelly Lurie	10	SSHO	AECOM	YSI 6920 Water Level Meter (3)	PJ Mion, USACE
Amanda Martin	11	Site Supervisor	AECOM	GeoTech Peristaltic Pump (1)	Greg Goepfert, USACE
Nicole Schulman	10	Geologist	AECOM	PID MiniRae 3000 (4)	
John Schroeder	11	Geologist	AECOM	PID MiniRae 2000 (1)	
Mike Glinski	11	Geologist	AECOM	MIE DR-4000 Dust Monitor (2)	
Katie Priess	11	Environmental Scientist	AECOM	Shondstadt Magnetometer	
Nina Bennerson	10	UXO Tech II	AECOM	Direct Push Rig 6620 (Track)	
Keith Precious	8	Driller	NE Geotech	Direct Push Rig (Truck)	
Mike Podany	8	Driller	NE Geotech		
John Hudson	10	Geologist	CGE		
DAILY TOTAL	100				
TOTAL TO DATE	1051.5	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
New England Geotech (NEG)	None
Clean Globe Environmental (CGE)	

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Soil Sampling

Geoprobe borings were completed and soil samples were collected at the following AOCs.

Motor Pool. One boring (MP-SB01) was completed. Soil samples were collected for analysis of the NYSDEC STARs List for Fuel Oil VOCs and SVOCs. A temporary well was installed in the boring; the team returned in the afternoon to collect a groundwater sample (details below).

H-21. Three borings were completed (H21-SB01 through H21-SB03). Soil samples were collected for analysis of VOCs, SVOCs, PCBs, and metals. Temporary wells were installed installed in the borings; the team will return to collect a groundwater samples at a later date.

Waste Disposal System (WDS) - Site Wide. Nine borings were completed (WDS-SB01, -SB02, -SB03, -SB06, -SB07, -SB14, -SB15, -SB16, and -SB17). Soil samples were collected for analysis of VOCs, SVOCs, PCBs, and metals. Temporary wells were installed in the boring; the team will return to collect groundwater samples at a later date. Additionally, soil samples at WDS-SB04 and -SB05 were collected via hand auger for the same analyses.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

Groundwater Sampling

Groundwater samples were collected at the following AOCs.

AST-35. Three groundwater samples were collected from temporary wells at borings AST35-SB02, -SB03, and -SB04 for analysis of VOCs and SVOCs. The team attempted to collect a sample from AST35-SB01; however, recharge in the well was insufficient to fill the bottleware. AST35-SB01 was installed to approximately 10 ft bgs with a 5-foot screen; the team will install a new temporary well at this location on 6/15/16 to 15 ft bgs with a 10-foot screen, in attempt to collect sufficient water.

Motor Pool (MP). The team attempted to collect a groundwater sample from MP-SB01. However, recharge in the well was insufficient to fill the bottleware (the well produced less that 500 mL after a couple hours worth of pumping then pausing to recharge). The team will reassess the volume of water in the temporary well on 6/15/16; if there is still insufficient water to complete sample collection, the team will discuss how to proceed with the technical lead, Brendan McGuinness.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

UXO Anomaly Avoidance

UXO Anomaly Avoidance was performed at WDS-SB06, -SB07, -SB14, -SB15, -SB16, and -SB17. All areas were cleared.

Flagging/Designation of Sample Locations

AECOM adjusted flagged sample locations at AOC WDS (-SB06, -SB07, and -SB14) once the UXO Tech cleared the areas. Underground anomalies (non-UXO) were identified near both -SB06/-SB07 and -SB14. Near -SB06 and -SB07, a large anomly was identified by the UXO Tech on the north side of Coast Artillery Road where the historic maps of the Site-Wide Sanitary Sewer indicate a 90-degree turn in the sewer line. Two shallow holes were dug and a portion of a concrete pad was exposed. The WDS-SB06 and -SB07 borings were placed upgradient and downgradient of the concrete pad.

Additionally, historic pipes were found underground in the vicinity of WDS-SB14. The UXO Tech identified a large anomaly in the woods which connected to the pipes (per magnetometer readings); the team believes the anomaly may be the historic septic tank indicated on the Site-Wide Sanitary Sewer maps. WDS-SB14 was located adjacent to the anomaly area in a spot cleared by the UXO Tech.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/14/2016 Tuesday

DR No. 14		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (continued)

Sample Management and Shipment

Soil and groundwater samples collected collected on Monday 6/13/16 were Quality Control checked, recorded on Chain of Custody records, and packed for shipment. Seven coolers were shipped overnight via FedEx for delivery to RTI Labortories (Livonia, MI) on Tuesday 6/14/16. Chain of Custody records were e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking.

RTI Laboratories notified the team that one of the coolers shipped on Thursday 6/9/16 for delivery on 6/10/16 was delivered by FedEx four days late on 6/14/16. The cooler was out of temperature at 21.6°C. The cooler contained SVOC, PCB, and lead samples at AOCs Suspected Tank B (STB), Building 2010, and WDS (-SB20). As a result, the team will need to recollect soil samples at these locations.

The project chemist (Devon Chicoine) discussed confirmation of sample receipt with RTI laboratories; in the future, the team will be notified daily if samples are not received.

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geotech

New England Geotech completed 13 borings total between AOCs WDS, MP, and H-21.

Clean Globe Environment

John Hudson (CGE) assisted Nicole Schulman (AECOM) with soil sampling and logging at AOCs WDS, MP, and H-21.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

The AECOM Technical Lead (Brendan McGuinness), USACE Geologist (PJ Mion), and Site Supervisor (Amanda Martin) discussed the following concerns:

AST35. There was insufficient recharge in temporary well AST35-SB01. The approach described in the Groundwater Sampling section of this Daily Report (see above) was agreed upon as the best approach to retreive sufficient sample volume.

H-14. No water entered H14-SB01 overnight from 6/13/16 to 6/14/16 (the temporary well was installed to 25 ft bgs on 6/13/16). Because groundwater is present in the other two temporary wells at H-14 (-SB02 and -SB03) for sample collection, H14-SB01 will not be advanced to a greater depth in attempt to find groundwater.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B).
No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/14/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
B113	Battery 113	113-CC01								
		113-CC02								
		113-CC03								
		113-LC01 to LC03								
203	Former Building 203	203-SB01	BMG 6/9/16	NB 6/9/16						
		203-SB02	BMG 6/9/16	NB 6/9/16						
		203-SB03	BMG 6/9/16	NB 6/9/16						
		203-SB04	BMG 6/9/16	NB 6/9/16						
		203-SB05	BMG 6/9/16	NB 6/9/16						
2010	Building 2010 (UST 30)	2010-SB01	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	No Well		
		2010-SB02	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	KL 6/12/16		
F100C	Building F100C (UST 34)	F100C-SB01	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
		F100C-SB02	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
AST35	AST 35/H-13	AST35-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16			
		AST35-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		PZ-1	BMG 6/9/16	NB 6/9/16						
		PZ-2	BMG 6/9/16	NB 6/9/16						
		PZ-3	BMG 6/9/16	NB 6/9/16						
FPH	Fuel Pump House and Distribution Line for AST-35	FPH-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL 6/14/16		
		FPH-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
STB	Building 22 (Tank B)	STB-SB01	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB02	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SB03	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB04	BMG 6/7/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SS05	BMG 6/7/16	NB 6/7/16	NA		MG 6/8/16			
		STB-SS06	BMG 6/7/16	NB 6/7/16	NA		MG 6/8/16			
		STB-SS07	BMG 6/7/16	NB 6/7/16	NA		MG 6/8/16			
3001	Building 3001	3001-MW01								
112	Battery 112 (UST 36, 37)	112-CC01								
		112-CC02								
		112-CC03								
107	Building 107	107-LC01								
201	Building 201	201-SB01	BMG 6/9/16	NB 6/9/16						
		201-WP01								
WDS	Abandoned Waste Disposal Systems (Site-wide)	WDS-SB01	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB02	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB03	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB04	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB05	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB06	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB07	AM 6/14/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB08	BMG 6/9/16	NG 6/10/16		NS/JH 6/13/16	NS/JH 6/13/16			
		WDS-SB09	NS 6/10/16	NB 6/10/16		MG/KP 6/13/16	MG/KP 6/13/16			
		WDS-SB10	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16			
		WDS-SB11	AM 6/12/16	NB 6/14/16		MG/KP 6/13/16	MG/KP 6/13/16			
		WDS-SB12	BMG 6/9/16	NB 6/9/16		MG/KP 6/13/16	MG/KP 6/13/16			
		WDS-SB13	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16			
		WDS-SB14	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB15	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB16	NS 6/12/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB17	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB18	NS 6/6/16	NB 6/14/16						
		WDS-SB19	NS 6/6/16	NB 6/9/16						
		WDS-SB20	BMG/NS 6/6/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/12/16		
		WDS-SB21	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/12/16		
		WDS-SB22	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KP/KL/NS 6/8/16		

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/14/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
		WDS-SB23	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
		WDS-SB24	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KL 6/9/16		
		WDS-SB25	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB26	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB27	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
MP	Motor Pool	MP-SB01	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16			
		MP-SB02	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
		MP-SB03	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
		MP-MW01								
EFO	Engineering Field Office	EFO-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
034	Former Building 34	034-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16			
		034-SS02	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS03	BMG 6/9/16	NB 6/9/16			NS/JH 6/13/16			
		034-SS04	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS05	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
H1	H-1	H1-SS01	NS/AM 6/6/16							
		H1-SS02	NS/AM 6/6/16							
		LC Samples	NS/AM 6/6/16							
H2	H-2	H2-SS01	BMG 6/9/16	NB 6/9/16						
		H2-SS02	BMG 6/9/16	NB 6/9/16						
		LC Samples	BMG 6/9/16	NB 6/9/16						
H3	H-3	H3-SS01	NS 6/6/16				MG/KP 6/7/16			
		H3-SS02	NS 6/6/16				MG/KP 6/7/16			
		LC Samples	NS 6/6/16						No Liquid Present	
H4	H-4	H4-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
		H4-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16			
		H4-SB03	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
H5	H-5	H5-SS01	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS02	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS03	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS04	BMG/NS 6/9/16				MG/KP 6/13/16			
		LC Samples	BMG/NS 6/9/16							
H6	H-6	H6-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
		H6-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16			
		H6-SB03	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16			
H9	H-9	H9-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
		H9-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
H11	H-11	H11-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		H11-SB02	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	MG/KP 6/7/16		
H12	H-12	H12-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
H14	H-14	H14-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
		H14-SB02	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16			
		H14-SB03	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16			
H15	H-15	H15-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		H15-SB02	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
		H15-SB03	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16					
H16	H-16	H16-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/13/16	MG/KP 6/13/16			
H17	H-17	H17-SB01	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB02	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB03	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB01 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
		H17-SB02 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
		H17-SB03 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
H18	H-18	H18-SS01	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		H18-SS02	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		LC Samples	BMG 6/7/16	NB 6/7/16						
H19	H-19	H19-SS01	NS 6/6/16	NB 6/6/16	NA					
		H19-SS02	NS 6/6/16	NB 6/6/16	NA					
H20	H-20	H20-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		H20-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		LC Samples	NS 6/6/16	NB 6/6/16					No Liquid Present	

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/14/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
H21	H-21	H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16			
		H21-SB02	BMG/NS 6/9/16	NB 6/10/16	NA	MG/KP 6/14/16	MG/KP 6/14/16			
		H21-SB03	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16			
H22	H-22	H22-SS01	NS 6/10/16							
		H22-SS02	NS 6/10/16							
		LC Samples	NS 6/10/16							
P113	Plotting Room 113	P113-SB01	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16			
		P113-SB02	NS 6/10/16	NB 6/10/16	NA	MP/KP 6/12/16	MP/KP 6/12/16			
		P113-SB03	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16			
AGC3	Camp Hero State Park Bluffs	NA								
BG01	Background Samples	BG01-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS08	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
BG02	Background Samples	BG02-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS08	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
BG03	Background Samples	BG03-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
BG04	Background Samples	BG04-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16					
		BG04-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16					

Note - Items highlighted in green were completed on 6/14/16

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/15/2016 Wednesday

DR No. 15		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F	Sunny	**Days without a lost time injury:**	15

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Greta White	10.25	Alternate SSHO	AECOM		PJ Mion, USACE
Amanda Martin	11	Site Supervisor	AECOM	GeoTech Peristaltic Pump (1)	Greg Goepfert, USACE
Nicole Schulman	9.5	Geologist	AECOM	PID MiniRae 3000 (4)	
John Schroeder	10.25	Geologist	AECOM	PID MiniRae 2000 (1)	
Mike Glinski	10.25	Geologist	AECOM	MIE DR-4000 Dust Monitor (2)	
Katie Priess	10.25	Environmental Scientist	AECOM	Shondstadt Magnetometer	
Nina Bennerson	9.5	UXO Tech II	AECOM	Direct Push Rig 6620 (Track)	
Keith Precious	8.5	Driller	NE Geotech	Direct Push Rig (Truck)	
Mike Podany	8.5	Driller	NE Geotech		
John Hudson	9.5	Geologist	CGE		
DAILY TOTAL	107.5				
TOTAL TO DATE	1159	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
New England Geotech (NEG)	None
Clean Globe Environmental (CGE)	

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day. Greta White arrived on site to replace Kelly Lurie as the SSHO. Ms. White reviewed and signed all applicable AHAs in the on-site APP.

Soil Sampling

Samples were recollected from the following locations. Note: Due to the delay of the FEDEX shipment of the samples collected on 6/8/16 (see details in the Daily Report from 6/14/16), some locations were resampled.

New geoprobe borings were completed and soil samples were collected.

Former Building 2010 (UST 30). Two soil borings were completed (2010-SB01 and -SB02):

- At 2010-SB01: four soil samples were collected (0 - 4, 4 - 5, 5 - 6, 6 - 7 ft bgs) for lead analysis only. One MS/MSD sample was collected at 2010-SB02-04.
- At 2010-SB02: four soil samples were collected (0 - 4, 4 - 5, 5 - 6, 6 - 7 ft bgs) for lead analysis only. Two duplicate samples were collected at at 2010-SB02-04 and 2010-SB02-05.

Site-Wide Waste Disposal System (WDS). One soil boring was completed (SB20). One soil sample was collected from 5 - 6 ft bgs for analysis of VOCs, SVOCs/PAHs, PCBs, and metals.

Suspected Tank B (STB). Four borings were completed at STB (SB01 through SB04). Only one subsurface soil sample was collected from each boring at the water table. Three additional surface soil samples were collected via hang-auger (SS05 through SS07). Samples were collected for analysis of NYSDEC STARs fuel oil list VOCs and SVOCs.

Geoprobe borings and soil sample collection was completed at the following AOCs.

Background Location 04. Four borings (BG04-SB01 through -SB04) and three additional surface soil locations (-SS05 through -SS07) were completed. Surface and subsurface soil samples were collected for analysis of PAHs and metals. No temporary wells were set in Background location borings because background groundwater samples will not be collected in Phase 1, per the RI WP.

H-1. Two surface soil locations (H1-SS01 and H1-SS02) were completed via hand-auger. One surface soil and one near-surface soil sample was collected per location for analysis of VOCs, SVOCs, PCBs, and metals.

H-2. Two surface soil locations (H2-SS01 and H2-SS02) were completed via hand-auger. One surface soil and one near-surface soil sample was collected per location for analysis of VOCs, SVOCs, PCBs, and metals.

H-15. Three borings (H15-SB01 through -SB03) were completed. Soil samples were collected for analysis of PAHs and metals. No groundwater was encountered in the borings; the borings were advanced to 25 ft bgs (per the RI WP) and a temporary well was installed. The temporary wells will be guaged at a later date to see if groundwater has entered the boring; if no groundwater is present, no samples will be collected (per the RI WP).

H-19. Two surface soil locations (H22-SS01 and H22-SS02) were completed via disposable scoop. Samples were collected for analysis of VOCs, PAHs, and metals. The surface soil at the two locations was screened using the PID bag-headspace test. The PID reading at both locations was 0.0 PPM; therefore, no geoprobe borings/subsurface soil sampling will be completed at H-19, per the RI WP.

H-22. Two surface soil locations (H22-SS01 and H22-SS02) were completed via hand-auger. One surface soil and one near-surface soil sample was collected per location for analysis of VOCs, SVOCs, PCBs, and metals.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

Replacement Well

A replacement well was installed at AST35-SB01 to 15 ft bgs with a 10-foot screen. The original temporary well was installed to approximately 10 ft bgs with a 5-foot screen; however, the well did not produce sufficient sample volume after multiple attempts to collect a sample.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/15/2016 Wednesday

DR No. 15		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (continued)

Groundwater Sampling

Groundwater samples were collected at the following AOCs.

H-4. Three groundwater samples were collected from temporary wells at borings H4-SB01, -SB02, and -SB03 for analysis of PCBs and metals.

H-6. Three groundwater samples were collected from temporary wells at borings H6-SB01, -SB02, and -SB03 for analysis of PCBs and metals.

Waste Disposal System (WDS) - Site Wide. The team attempted to collect a groundwater sample from WDS-SB10. Recharge is the well was insufficient to fill all sample bottleware. One additional attempt will be made to finalize the sample on 6/16/16. If insufficient sample volume is retreived, the volume collected will be sent to the lab and no additional attempts will be made.

Motor Pool (MP). The team attempted to collect a groundwater sample from MP-SB01 twice (once in the morning and once in the evening). These were the second and third attempts to fill the bottleware. Again, insuffient water was present in the well to fill the remaining bottleware. One additional attempt will be made to finalize the sample on 6/16/16. If insufficient sample volume is retreived, the volume collected will be sent to the lab and no additional attempts will be made.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

Sample Management and Shipment

Soil and groundwater samples collected collected on Tuesday 6/14/16 and Wednesday 6/15/16 were Quality Control checked, recorded on Chain of Custody records, and packed for shipment. Six coolers were shipped overnight via FedEx for delivery to RTI Labortories (Livonia, MI). Chain of Custody records were e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking.

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geotech

New England Geotech completed 14 borings total between Background 04 and AOCs STB, Building 2010, WDS (-SB20), and H-15.

Clean Globe Environment

John Hudson (CGE) assisted Nicole Schulman (AECOM) with soil sampling and logging at AOCs H-1, H-2, H-19, H-22, and H-15.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Mr. Greg Goepfert (USACE Project Manager) was on site and discussed concerns with Amanda Martin (Site Supervisor). Mr. Goepfert requested that Tom Dess (NY State Parks Superintendent) was notified each morning of the project team's presence on site, along with the number of team members present.

Additionally, Mr. Goepfert requested that AECOM provide secondary containment for the cans found in Building 10 (Kitchen) and dispose of the containers, in the instance that Tom Dess cannot dispose of them. Mr.Goepfert indicated that he would discuss possible disposal by the Parks Service with Tom Dess, since the items appear to be general consumer items (oil cans, paint cans) and the Parks Service has a maintenance building at Camp Hero.

Tom Dess (NY State Parks Superintendent) was notified in the morning that 12 team members were on site (including USACE, AECOM, CGE, and NEG). Mr. Dess also inquired about weekend work and was reassured that, per previous site meetings and discusion, no weekend work took place in the picnic area where camping occurred over the weekend. Mr. Dess was also concerned that the drill rig had left track marks in the woods near Background Location 01.
Ms. Martin informed Mr. Dess that track marks were an unfortunate result of collecting soil samples with a drill rig; Mr. Dess indicated that the Park Maintenance would place a log at the entrance to the area so the public would be aware that the track marks were not a public access road.
Additionally, Mr. Dess requested 2-days notice prior to when AECOM wants to perform sampling inside of Battery 113.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B).
No exceedances were observed.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/15/2016 Wednesday

DR No. 15		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/15/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
B113	Battery 113	113-CC01								
		113-CC02								
		113-CC03								
		113-LC01 to LC03								
203	Former Building 203	203-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16					
		203-SB02	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16					
		203-SB03	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16					
		203-SB04	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16					
		203-SB05	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16					
		PZ-1	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16					
		PZ-2	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16					
		PZ-3	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16					
2010	Building 2010 (UST 30)	2010-SB01	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	No Well		
		2010-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16	No Well		
		2010-SB02	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	KL 6/12/16		
		2010-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
F100C	Building F100C (UST 34)	F100C-SB01	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
		F100C-SB02	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
AST35	AST 35/H-13	AST35-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16			
		AST35-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
FPH	Fuel Pump House and Distribution Line for AST-35	FPH-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL 6/14/16		
		FPH-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
STB	Building 22 (Tank B)	STB-SB01	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB02	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB03	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB03 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB04	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SB04 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SS05	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS05 - REDO					MG/KP 6/15/16			
		STB-SS06	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS06 - REDO					MG/KP 6/15/16			
		STB-SS07	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS07 - REDO					MG/KP 6/15/16			
3001	Building 3001	3001-MW01								
112	Battery 112 (UST 36, 37)	112-CC01								
		112-CC02								
		112-CC03								
107	Building 107	107-LC01								
201	Building 201	201-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16					
		201-WP01								

Camp Hero Phase 1 RI Field Activities
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AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
WDS	Abandoned Waste Disposal Systems (Site-wide)	WDS-SB01	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB02	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB03	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB04	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB05	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB06	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB07	AM 6/14/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB08	BMG 6/9/16	NG 6/10/16		NS/JH 6/13/16	NS/JH 6/13/16			
		WDS-SB09	NS 6/10/16	NB 6/10/16		MG/KP 6/13/16	MG/KP 6/13/16			
		WDS-SB10	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16			
		WDS-SB11	AM 6/12/16	NB 6/14/16		MG/KP 6/13/16	MG/KP 6/13/16			
		WDS-SB12	BMG 6/9/16	NB 6/9/16		MG/KP 6/13/16	MG/KP 6/13/16			
		WDS-SB13	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16			
		WDS-SB14	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB15	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB16	NS 6/12/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB17	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB18	NS 6/6/16	NB 6/14/16	NYSP 6/15/16					
		WDS-SB19	NS 6/6/16	NB 6/9/16	NYSP 6/15/16					
		WDS-SB20	BMG/NS 6/6/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/12/16		
		WDS-SB20 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		WDS-SB21	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/12/16		
		WDS-SB22	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB23	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
		WDS-SB24	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KL 6/9/16		
		WDS-SB25	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB26	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB27	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
MP	Motor Pool	MP-SB01	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16			
		MP-SB02	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
		MP-SB03	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
		MP-MW01								
EFO	Engineering Field Office	EFO-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
034	Former Building 34	034-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16			
		034-SS02	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS03	BMG 6/9/16	NB 6/9/16			NS/JH 6/13/16			
		034-SS04	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS05	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
H1	H-1	H1-SS01	NS/AM 6/6/16				NS/JH 6/15/16			
		H1-SS02	NS/AM 6/6/16				NS/JH 6/15/16			
		LC Samples	NS/AM 6/6/16							
H2	H-2	H2-SS01	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			
		H2-SS02	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			
		LC Samples	BMG 6/9/16	NB 6/9/16						
H3	H-3	H3-SS01	NS 6/6/16				MG/KP 6/7/16			
		H3-SS02	NS 6/6/16				MG/KP 6/7/16			
		LC Samples	NS 6/6/16						No Liquid Present	
H4	H-4	H4-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
		H4-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H4-SB03	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
H5	H-5	H5-SS01	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS02	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS03	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS04	BMG/NS 6/9/16				MG/KP 6/13/16			
		LC Samples	BMG/NS 6/9/16							
H6	H-6	H6-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
		H6-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H6-SB03	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
H9	H-9	H9-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
		H9-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
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AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
H11	H-11	H11-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		H11-SB02	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	MG/KP 6/7/16		
H12	H-12	H12-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
H14	H-14	H14-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
		H14-SB02	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16			
		H14-SB03	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16			
H15	H-15	H15-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16			
		H15-SB02	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16			
		H15-SB03	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16			
H16	H-16	H16-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/13/16	MG/KP 6/13/16			
H17	H-17	H17-SB01	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB02	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB03	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB01 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
		H17-SB02 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
		H17-SB03 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16					
H18	H-18	H18-SS01	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		H18-SS02	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		LC Samples	BMG 6/7/16	NB 6/7/16						
H19	H-19	H19-SS01	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		
		H19-SS02	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		
H20	H-20	H20-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		H20-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		LC Samples	NS 6/6/16	NB 6/6/16					No Liquid Present	
H21	H-21	H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16			
		H21-SB02	BMG/NS 6/9/16	NB 6/10/16	NA	MG/KP 6/14/16	MG/KP 6/14/16			
		H21-SB03	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16			
H22	H-22	H22-SS01	NS 6/10/16				NS/JH 6/15/16			
		H22-SS02	NS 6/10/16				NS/JH 6/15/16			
		LC Samples	NS 6/10/16							
P113	Plotting Room 113	P113-SB01	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16			
		P113-SB02	NS 6/10/16	NB 6/10/16	NA	MP/KP 6/12/16	MP/KP 6/12/16			
		P113-SB03	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16			
AGC3	Camp Hero State Park Bluffs	NA								
BG01	Background Samples	BG01-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS08	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
BG02	Background Samples	BG02-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS08	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
BG03	Background Samples	BG03-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			

Camp Hero Phase 1 RI Field Activities
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AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
BG04	Background Samples	BG04-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			

Note - Items highlighted in green were completed on 6/15/16

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/16/2016 Thursday

DR No. 16		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F	Morning Clouds, Afternoon Sun	**Days without a lost time injury:**	16

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Greta White	10.25	Alternate SSHO	AECOM		PJ Mion, USACE
Amanda Martin	10.75	Site Supervisor	AECOM	GeoTech Peristaltic Pump (1)	
Nicole Schulman	10.25	Geologist	AECOM	PID MiniRae 3000 (4)	
John Schroeder	10.75	Geologist	AECOM	PID MiniRae 2000 (1)	
Mike Glinski	10.75	Geologist	AECOM	MIE DR-4000 Dust Monitor (2)	
Katie Priess	10.75	Environmental Scientist	AECOM	Shondstadt Magnetometer	
Nina Bennerson	10.25	UXO Tech II	AECOM	Direct Push Rig 6620 (Track)	
Keith Precious	9	Driller	NE Geotech	Direct Push Rig (Truck)	
Mike Podany	9	Driller	NE Geotech		
John Hudson	10	Geologist	CGE		
DAILY TOTAL	111.75				
TOTAL TO DATE	1270.75	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
New England Geotech (NEG)	None
Clean Globe Environmental (CGE)	

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Soil Sampling

Geoprobe borings and soil sample collection was completed at the following AOCs.

Former Building 203. Five borings (203-SB01 through -SB05) were completed. Two soil samples were collected per boring for analyses of VOCs, SVOCs, PCBs, and metals. No water was encountered in any of the borings; a dense clay layer was encountered between 2 and 22 ft bgs. Elevated PID readings were observed in two borings. Details of each boring are provided below.

-SB01: Boring was advanced to 25 ft bgs. No water was encountered; the clay layer was encountered at 13 ft bgs. A temporary well was installed to 25 ft bgs with a 10-foot screen.

-SB02: Boring was advanced to 25 ft bgs. No water was encountered; the clay layer was encountered at 2 ft bgs. A temporary well was installed to 25 ft bgs with a 10-foot screen.

-SB03: Boring was advanced to 25 ft bgs. No water was encountered; the clay layer was encountered at 5 ft bgs. A temporary well was installed to 25 ft bgs with a 10-foot screen.

-SB04: Boring was advanced to 25 ft bgs. No water was encountered; the clay layer was encountered at 14 ft bgs. A PID reading of 11.3 PPM was observed at approximately 11 ft bgs in the sandy silt layer just above the clay, which was the assumed transmissive zone. A temporary well was installed to 25 ft bgs with a 10-foot screen.

-SB05: Boring was advanced to approximately 22 ft bgs. No water was encountered; the clay layer was encountered at 22 ft bgs. A PID reading of 402.8 PPM was observed at 21 ft bgs, just above the clay layer in a sandy silt (the assumed transmizzive zone). One soil sample was collected from this interval. A temporary well was installed to 22 ft bgs with a 10-foot screen.

The team will return at a later date to determine if water is present in the temporary wells; if present, a groundwater sample will be collected.

Building 201 (Radar Tower). One boring (201-SB01) was advanced to 25 ft bgs. No water was encountered; the clay layer encountered in nearby borings at former Building 203 was also not encountered. A temporary well was installed to 25 ft bgs with a 10-foot screen; the team will return at a later date to see if water is present in the well.

Site-Wide Waste Disposal System (WDS). Two borings (WDS-SB18 and -SB19) were completed. Soil samples were collected for analysis of VOCs, SVOCs, PCBs, and metals. No water was encountered in WDS-SB18; the boring was advanced to 25 ft bgs and a temporary well was installed with a 15-foot screen. The team will return at a later date to see if water is present in the wells. Water was encountered at WDS-SB19 at 13.5 ft bgs; a temporary well was installed to 20 ft bgs with a 10-foot screen. A groundwater sample will be collected at a later date.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

The soil borings and soil sampling completed on 6/16/16 finished the remaining soil sampling planned for the Phase 1 RI field effort. As such, New Englang Geotech demobilized from the site.

UXO Anomaly Avoidance

PZ-1 was relocated because the Geoprobe hit refusal at 6 ft bgs after three attempts at the original PZ-1 location. The relocated PZ-1 was cleared by the Nina Bennerson (AECOM UXO Tech II) prior to drilling. The magnetometer indicated multiple large hits in the area of the original PZ-1 location; the team suspects that the foundation from former Building 203 may still be in place and contain rebar.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

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DR No. 16		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (continued)

Replacement Well

A replacement well was installed at H14-SB02 to 24 ft bgs with a 15-foot screen. The original temporary well was installed to 15 ft bgs; however, the well was dry after 24 hrs, so the team decided to reinstall the temporary well to greater depth in attempt to obtain a groundwater sample.

Piezometer Installation

Three piezometers (PZ-1, PZ-2, PZ-3) were installed near Building 203. All three borings were advanced to 25 ft bgs with a 15-foot screen. All three borings were dry and a dense clay layer was encountered, so the team is unsure of whether water will enter the piezometers. The team will return at a later date to see if water is present in the boring and to collect water level measurements.

Groundwater Sampling

Groundwater samples were collected at the following AOCs.

AST-35. One groundwater sample was collected from the replacement temporary well at AST35-SB01 for analysis of VOCs and SVOCs.

Plotting Room 113 (P113). One complete groundwater sample was collected from P113-SB02 for analysis of VOCs, SVOCs, and metals. Two partial samples were collected from P113-SB01 and P113-SB02; the recharge in the well was insufficient to fill all sample bottleware. The team will attempt to fill the remaining bottleare on 6/17/16; if recharge is still insufficient, no futher attempts will be made.

Waste Disposal System (WDS) - Site Wide. Three groundwater samples were collected at WDS-SB01, -SB02, and -SB03 near the chlorine contact chamber for analysis of VOCs, SVOCs, PCBs, and metals. Additionally, the groundwater sample from WDS-SB10 was finalized.

Motor Pool (MP). The team finalized the groundwater sample from MP-SB01 and was able to collect sufficient sample volume (this was the fourth attempt). Additionally, the team assessed the existing well outside of the Motor Pool building (named MP-MW01 for the Phase 1 RI Work). Water from the well is used for non-potable purposes inside the motor pool building. The system was visually surveyed by J Schroeder, A Martin, and PJ Mion. No existing tap is available for water collection prior to the water entering a permanent filtration system. The team decided the best course of action is sampling directly from the well; however, depth to water was 50 ft bgs and the peristaltic pump could not retrive water from that depth. The team will reassess how to collect a sample from MP-MW01 at a later date.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

Building Access Assessment

Greta White (AECOM SSHO) and Amanda Martin (AECOM Site Supervisor) assessed access to Buildings 107 (Electrical Substation) and 201 (Radar Tower).

Building 107 (Electrical Substation). Access to Building 107 had an available entrance and appears to be safe from the outside. Tom Dess (NYS Parks Superintendent) was contacted about access to Building 107; Mr. Dess indicated that the building is concrete below the First Floor (which is wooden) and that the structure should be stable. Theteam has permission to enter from Mr. Dess. The team will attempt to enter the building at a later date to see if fluid is present in transformer in the basement.

Building 201 (Radar Tower) – Ms. Martin and Ms. White saw no available entrances to Building 201 other than breaking into the building at previously-sealed entrances. Mr. Dess was contacted about access; Mr. Dess that he was not aware that the team needed to enter the Radar Tower. He indicated that the building is completely sealed; the structures and stairwells inside are not stable; and he does not believe it is safe for anyone to enter. AECOM/USACE has permission to break into the building, if absolutely essential, at our own risk; however, Mr Dess indicated that USACE/AECOM would be responsible for re-sealing the entrance. Accessing Building 201 will be discussed with the Project Manager (Mark MacEwan) before the team proceeds.

Sample Management and Shipment

Soil and groundwater samples collected collected on Wednesday 6/15/16 and Thursday 6/16/16 were Quality Control checked, recorded on Chain of Custody records, and packed for shipment. Six coolers were shipped overnight via FedEx for delivery to RTI Labortories (Livonia, MI). Chain of Custody records were e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking.

The RTI Laboratories Project Manager (Kathy Griffin) contacted AECOM at 11 AM on 6/16/16 that one of the 6 coolers shipped on 6/15/15 had not yet arrived. Ms. Griffin tracked the package and indicated the cooler was scheduled to arrive at 3:00 PM on 6/16/16. However, a call from Ms. Griffin at 7:30 PM indicated that FedEx did not deliver the cooler in the afternoon; the latest tracking information indicates the cooler will arrive by 10:30 AM on 6/17/17.

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geotech

New England Geotech completed 15 borings total between AOCs former Building 203 and associated piezometers, Building 201, WDS (-SB18 and -SB19), H-17, and one replacement well at H-14 (H14-SB02). NEG completed all borings needed for the Phase 1 RI field effort and demobilized from the site. However, NEG was contacted once AECOM received notice of the delayed cooler and agreed to have one driller return to the site on 6/17/16, in case resampling was necessary.

Clean Globe Environment

John Hudson (CGE) assisted Nicole Schulman (AECOM) with soil sampling and logging at AOCs former Building 203 and WDS. Additionally, he collected groundwater samples at AOC WDS (-SB01 through -SB03) and assissted with coordination for surveying by CGE the week of 6/20/16 and providing supplies for breaking into Battery 113 (to be provided by other CGE employees on Monday 6/20/16).

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

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DR No. 16		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 11 team members were on site (including USACE, AECOM, CGE, and NEG). Additionally, Amanda Martin (AECOM Site Supervisor) asked Mr. Dess is Monday 6/20/16 or Tuesday 6/21/16 would be preferable to the NYS Parks for the Battery 113 work. Mr. Dess indicated that Monday 6/20/16 would be preferable; the Battery 113 work was scheduled for Monday Morning 6/20/16. Mr. Dess will have maintenance staff repair the break-in once sample collection is complete.

Additionally, access to Buildings 107 (Electrical Substation) and 201 (Radar Tower) was discussed with Mr. Dess (see "Building Access Assessment" section above). Mr. Dess believes it is not safe to work near the radar tower due to large, sharp pieces of metal falling off the radar tower. Ms. Martin explained that the team had been previously instructed to wear hardhats at all times near the radar tower, avoid the area on windy days, and use a “spotter” to check for loose/moving metal pieces.

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B). No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

While working near the Radar Tower, the team wore hardhats at all times and used a “spotter” to check for loose/moving metal pieces. There was little to no wind during the time working near the radar tower; if the wind had increased, the team would have avoided working near the Radar Tower until conditions were safe.

Some team members elected to wear tyvek suits for tick protection while working near the Radar Tower and former Building 203, as many ticks were noticed in the area during flagging and other previous activities.

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/16/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
B113	Battery 113	113-CC01								
		113-CC02								
		113-CC03								
		113-LC01 to LC03								
203	Former Building 203	203-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		203-SB02	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		203-SB03	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		203-SB04	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16			
		203-SB05	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16			
		PZ-1	AM 6/16/16	NB 6/16/16	NYSP 6/15/16	MG/KP 6/16/16				
		PZ-2	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				
		PZ-3	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				
2010	Building 2010 (UST 30)	2010-SB01	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	No Well		
		2010-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16	No Well		
		2010-SB02	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	KL 6/12/16		
		2010-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
F100C	Building F100C (UST 34)	F100C-SB01	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
		F100C-SB02	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
AST35	AST 35/H-13	AST35-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/16/16		
		AST35-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
FPH	Fuel Pump House and Distribution Line for AST-35	FPH-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL 6/14/16		
		FPH-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
STB	Building 22 (Tank B)	STB-SB01	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB02	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB03	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB03 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB04	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SB04 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SS05	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS05 - REDO					MG/KP 6/15/16			
		STB-SS06	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS06 - REDO					MG/KP 6/15/16			
		STB-SS07	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS07 - REDO					MG/KP 6/15/16			
3001	Building 3001	3001-MW01								
112	Battery 112 (UST 36, 37)	112-CC01								
		112-CC02								
		112-CC03								
107	Building 107	107-LC01								
201	Building 201	201-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		201-WP01								

Camp Hero Phase 1 RI Field Activities
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AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
WDS	Abandoned Waste Disposal Systems (Site-wide)	WDS-SB01	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		
		WDS-SB02	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/14/16	MG/KP 6/14/16	NS/JH 6/16/16		
		WDS-SB03	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		
		WDS-SB04	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB05	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB06	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB07	AM 6/14/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB08	BMG 6/9/16	NG 6/10/16		NS/JH 6/13/16	NS/JH 6/13/16			
		WDS-SB09	NS 6/10/16	NB 6/10/16		MG/KP 6/13/16	MG/KP 6/13/16			
		WDS-SB10	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		
		WDS-SB11	AM 6/12/16	NB 6/14/16		MG/KP 6/13/16	MG/KP 6/13/16			
		WDS-SB12	BMG 6/9/16	NB 6/9/16		MG/KP 6/13/16	MG/KP 6/13/16			
		WDS-SB13	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16			
		WDS-SB14	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB15	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB16	NS 6/12/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16			
		WDS-SB17	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB18	NS 6/6/16	NB 6/14/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16			
		WDS-SB19	NS 6/6/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		WDS-SB20	BMG/NS 6/6/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/12/16		
		WDS-SB20 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		WDS-SB21	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/12/16		
		WDS-SB22	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB23	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
		WDS-SB24	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KL 6/9/16		
		WDS-SB25	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB26	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB27	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
MP	Motor Pool	MP-SB01	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	JS 6/16/16		
		MP-SB02	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
		MP-SB03	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
		MP-MW01								
EFO	Engineering Field Office	EFO-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
034	Former Building 34	034-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16			
		034-SS02	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS03	BMG 6/9/16	NB 6/9/16			NS/JH 6/13/16			
		034-SS04	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS05	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
H1	H-1	H1-SS01	NS/AM 6/6/16				NS/JH 6/15/16			
		H1-SS02	NS/AM 6/6/16				NS/JH 6/15/16			
		LC Samples	NS/AM 6/6/16							
H2	H-2	H2-SS01	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			
		H2-SS02	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			
		LC Samples	BMG 6/9/16	NB 6/9/16						
H3	H-3	H3-SS01	NS 6/6/16				MG/KP 6/7/16			
		H3-SS02	NS 6/6/16				MG/KP 6/7/16			
		LC Samples	NS 6/6/16						No Liquid Present	
H4	H-4	H4-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
		H4-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H4-SB03	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
H5	H-5	H5-SS01	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS02	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS03	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS04	BMG/NS 6/9/16				MG/KP 6/13/16			
		LC Samples	BMG/NS 6/9/16							
H6	H-6	H6-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
		H6-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H6-SB03	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
H9	H-9	H9-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
		H9-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			

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AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
H11	H-11	H11-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		H11-SB02	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	MG/KP 6/7/16		
H12	H-12	H12-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
H14	H-14	H14-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
		H14-SB02	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16			
		H14-SB03	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16			
H15	H-15	H15-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16			
		H15-SB02	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16			
		H15-SB03	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16			
H16	H-16	H16-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/13/16	MG/KP 6/13/16			
H17	H-17	H17-SB01	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB02	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB03	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB01 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16			
		H17-SB02 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16			
		H17-SB03 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16			
H18	H-18	H18-SS01	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		H18-SS02	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		LC Samples	BMG 6/7/16	NB 6/7/16						
H19	H-19	H19-SS01	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		
		H19-SS02	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		
H20	H-20	H20-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		H20-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		LC Samples	NS 6/6/16	NB 6/6/16					No Liquid Present	
H21	H-21	H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16			
		H21-SB02	BMG/NS 6/9/16	NB 6/10/16	NA	MG/KP 6/14/16	MG/KP 6/14/16			
		H21-SB03	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16			
H22	H-22	H22-SS01	NS 6/10/16				NS/JH 6/15/16			
		H22-SS02	NS 6/10/16				NS/JH 6/15/16			
		LC Samples	NS 6/10/16							
P113	Plotting Room 113	P113-SB01	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16			
		P113-SB02	NS 6/10/16	NB 6/10/16	NA	MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		
		P113-SB03	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16			
AGC3	Camp Hero State Park Bluffs	NA								
BG01	Background Samples	BG01-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS08	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
BG02	Background Samples	BG02-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS08	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
BG03	Background Samples	BG03-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/16/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
BG04	Background Samples	BG04-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			

Note - Items highlighted in green were completed on 6/16/16

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/17/2016 Friday

DR No. 16		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F	Morning Clouds, Afternoon Sun	**Days without a lost time injury:**	17

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Greta White	10.25	Alternate SSHO	AECOM	YSI 6920 Water Level Meter (3)	PJ Mion, USACE
Amanda Martin	10.25	Site Supervisor	AECOM	GeoTech Peristaltic Pump (3)	
Nicole Schulman	9	Geologist	AECOM	PID MiniRae 3000 (4)	
John Schroeder	10.25	Geologist	AECOM	PID MiniRae 2000 (1)	
Mike Glinski	10.25	Geologist	AECOM	MIE DR-4000 Dust Monitor (2)	
Katie Priess	10.25	Environmental Scientist	AECOM	Shondstadt Magnetometer	
Nina Bennerson	10.25	UXO Tech II	AECOM	Direct Push Rig 6620 (Track)	
Mike Podany	2	Driller	NE Geotech		
John Hudson	9	Geologist	CGE		
DAILY TOTAL	91.5				
TOTAL TO DATE	1353.25	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
New England Geotech (NEG)	None
Clean Globe Environmental (CGE)	

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Geoprobe Borings

The RTI Laboratories Project Manager (Kathy Griffin) notified AECOM on 6/16/16 that one of the 6 coolers shipped on 6/15/15 had not yet arrived (see Daily Report from 6/16/16 and below Sample Management section for details). While pending arrival of the cooler at the laboratory, geoprobe borings were advanced at the following locations for the collection of soil to be held for sampling, if resampling were required. The team was unable to wait for the cooler to arrive to decide whether to conduct the borings, as New England Geotech (NEG) had to demobilize from the site by 0900.

Former Building 2010 (UST 30). Two soil borings were completed (2010-SB01 and -SB02).

Site-Wide Waste Disposal System (WDS). One soil boring was completed (SB20).

Suspected Tank B (STB). Four borings were completed at STB (SB01 through SB04).

However, the cooler arrived at the laboratory below the required preservative temperature and resampling was not necessary. The soil was returned to the borings.

The soil borings and soil sampling completed on 6/16/16 finished the remaining soil sampling planned for the Phase 1 RI field effort. As such, New England Geotech demobilized from the site.

Groundwater Sampling

Groundwater samples were collected at the following AOCs.

Plotting Room 113 (P113). The collection of two groundwater samples at P113 was finalized (P113-SB01 and P113-SB02); the recharge in the well was insufficient to fill all sample bottleware on 6/16/16. Samples were collected for analysis of VOCs, SVOCs, and metals. However, groundwater had not recharged sufficiently overnight to collect the 4 L volume requested by RTI Laboratories for the SVOC-PNA method; only 2 L of volume was provided for the analysis.

Waste Disposal System (WDS) - Site Wide. Five groundwater samples were collected at WDS-SB08, -SB11, -SB12, -SB13, and -SB15 for analysis of VOCs, SVOCs, PCBs, and metals. Additionally, partial samples were collected from WDS-SB06 and -SB09. Recharge in these wells was insufficient to fill all sample bottles; two attempts were made on 6/17/16. One additional attempt will be made on 6/19/16 and whatever volume is collected will be

Motor Pool (MP). One groundwater sample was collected from MP-SB03 for analysis of VOCs, SVOCs, PCBs, and energetics.

H-14. Two groundwater samples were collected from H14-SB01 and H14-SB02 for analysis of PAHs and metals. No groundwater was present in H14-SB03.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

Water Level Measurements

In addition to the temporary wells sampled on 6/17/16, the team attempted to sample the following wells, but found that the wells were dry:

H14-SB02, H15-SB01, H15-SB02, H15-SB03, WDS-SB14, WDS-SB16, and WDS-SB17. No groundwater samples will be collected from these locations, per the RI WP.

Debris Removal

The old boiler on the Camp Hero State Parks Bluffs was removed and disposed of as solid waste.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/17/2016 Friday

DR No. 16		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Sample Management and Shipment

The RTI Laboratories Project Manager (Kathy Griffin) contacted AECOM at 7:30 PM on 6/16/16 that one of the 6 coolers shipped on 6/15/15 had not yet arrived. Ms. Griffin contacted AECOM at 9:30 AM on 6/17/16 that the delayed cooler had arrived. The cooler temperature was 1.4°C, below the required 4°C, so the included samples will be analyzed. The project chemist (Devon Chicoine) and managers agreed that the samples would not have to be recollected.

Soil and groundwater samples collected collected on Thursday 6/16/16 and Friday 6/17/16 were Quality Control checked, recorded on Chain of Custody records, and packed for shipment. Eleven coolers were shipped overnight for Saturday Delivery via FedEx for delivery to RTI Labortories (Livonia, MI). Chain of Custody records were e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking.

WORK COMPLETED BY AECOM SUBCONTRACTORS

New England Geotech

New England Geotech completed 7 borings between AOCs STB, 2010, and WDS (-SB20 only) to collect soil cores, should soil resampling be necessary if the delayed cooler was out of hold temperature. After the resampling effort, NEG had completed all borings needed for the Phase 1 RI field effort and demobilized from the site. During the Phase 1 RI Field Activities, NEG completed a total of 119 borings to 10+ ft bgs (including the resampling AOCs STB, 2010, and WDS (-SB20) and reinstallation of wells. Additionally, they completed a total 27 5-foot borings for collection of surface soil.

Clean Globe Environment

John Hudson (CGE) assisted with debris removal from the Camp Hero State Park Bluffs and groundwater sampling.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

None

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

Continuous air monitoring was completed downwind of the geoprobe boring, in accordance with the modified generic NYSDOH CAMP (see RI WP Appendix B).
No exceedances were observed.

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/17/2016 Friday

DR No. 16		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Daily Photos

Photo 1. J Schroeder (AECOM) collecting groundwater samples.

Photo 2. K Priess (AECOM) collecting groundwater samples.

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/17/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
B113	Battery 113	113-CC01								
		113-CC02								
		113-CC03								
		113-LC01 to LC03								
203	Former Building 203	203-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		203-SB02	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		203-SB03	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		203-SB04	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16			
		203-SB05	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16			
		PZ-1	AM 6/16/16	NB 6/16/16	NYSP 6/15/16	MG/KP 6/16/16				
		PZ-2	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				
		PZ-3	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				
2010	Building 2010 (UST 30)	2010-SB01	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	No Well		
		2010-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16	No Well		
		2010-SB02	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	KL 6/12/16		
		2010-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
F100C	Building F100C (UST 34)	F100C-SB01	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
		F100C-SB02	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
AST35	AST 35/H-13	AST35-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/16/16		
		AST35-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
FPH	Fuel Pump House and Distribution Line for AST-35	FPH-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL 6/14/16		
		FPH-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
STB	Building 22 (Tank B)	STB-SB01	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB02	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB03	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB03 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB04	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SB04 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SS05	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS05 - REDO					MG/KP 6/15/16			
		STB-SS06	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS06 - REDO					MG/KP 6/15/16			
		STB-SS07	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS07 - REDO					MG/KP 6/15/16			
3001	Building 3001	3001-MW01								
112	Battery 112 (UST 36, 37)	112-CC01								
		112-CC02								
		112-CC03								
107	Building 107	107-LC01								
201	Building 201	201-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		201-WP01								

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/17/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
WDS	Abandoned Waste Disposal Systems (Site-wide)	WDS-SB01	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		
		WDS-SB02	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/14/16	MG/KP 6/14/16	NS/JH 6/16/16		
		WDS-SB03	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		
		WDS-SB04	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB05	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB06	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	KP 6/17/16 - part		
		WDS-SB07	AM 6/14/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB08	BMG 6/9/16	NG 6/10/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		WDS-SB09	NS 6/10/16	NB 6/10/16		MG/KP 6/13/16	MG/KP 6/13/16	KP 6/17/16 - part		
		WDS-SB10	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		
		WDS-SB11	AM 6/12/16	NB 6/14/16		MG/KP 6/13/16	MG/KP 6/13/16	JS 6/17/16		
		WDS-SB12	BMG 6/9/16	NB 6/9/16		MG/KP 6/13/16	MG/KP 6/13/16	KP 6/17/16		
		WDS-SB13	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		WDS-SB14	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	NA DRY 6/17/16		
		WDS-SB15	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	MG 6/17/16		
		WDS-SB16	NS 6/12/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	NA DRY 6/17/16		
		WDS-SB17	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	NA DRY 6/17/16		
		WDS-SB18	NS 6/6/16	NB 6/14/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16			
		WDS-SB19	NS 6/6/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		WDS-SB20	BMG/NS 6/6/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/12/16		
		WDS-SB20 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		WDS-SB21	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/12/16		
		WDS-SB22	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB23	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
		WDS-SB24	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KL 6/9/16		
		WDS-SB25	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB26	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB27	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
MP	Motor Pool	MP-SB01	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	JS 6/16/16		
		MP-SB02	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
		MP-SB03	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		MP-MW01								
EFO	Engineering Field Office	EFO-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16			
034	Former Building 34	034-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16			
		034-SS02	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS03	BMG 6/9/16	NB 6/9/16			NS/JH 6/13/16			
		034-SS04	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS05	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
H1	H-1	H1-SS01	NS/AM 6/6/16				NS/JH 6/15/16			
		H1-SS02	NS/AM 6/6/16				NS/JH 6/15/16			
		LC Samples	NS/AM 6/6/16						No Liquid Present	
H2	H-2	H2-SS01	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			
		H2-SS02	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			
		LC Samples	BMG 6/9/16	NB 6/9/16					No Liquid Present	
H3	H-3	H3-SS01	NS 6/6/16				MG/KP 6/7/16			
		H3-SS02	NS 6/6/16				MG/KP 6/7/16			
		LC Samples	NS 6/6/16						No Liquid Present	
H4	H-4	H4-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
		H4-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H4-SB03	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
H5	H-5	H5-SS01	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS02	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS03	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS04	BMG/NS 6/9/16				MG/KP 6/13/16			
		LC Samples	BMG/NS 6/9/16							
H6	H-6	H6-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
		H6-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H6-SB03	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
H9	H-9	H9-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
		H9-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/17/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
H11	H-11	H11-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		H11-SB02	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	MG/KP 6/7/16		
H12	H-12	H12-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
H14	H-14	H14-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	MG 6/17/16		
		H14-SB02	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16	NA DRY 6/17/16		
		H14-SB03	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16	MG 6/17/16		
H15	H-15	H15-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
		H15-SB02	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
		H15-SB03	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
H16	H-16	H16-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/13/16	MG/KP 6/13/16			
H17	H-17	H17-SB01	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB02	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB03	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB01 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16			
		H17-SB02 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16			
		H17-SB03 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16			
H18	H-18	H18-SS01	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		H18-SS02	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		LC Samples	BMG 6/7/16	NB 6/7/16					No Liquid Present	
H19	H-19	H19-SS01	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		
		H19-SS02	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		
H20	H-20	H20-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		H20-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		LC Samples	NS 6/6/16	NB 6/6/16					No Liquid Present	
H21	H-21	H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16			
		H21-SB02	BMG/NS 6/9/16	NB 6/10/16	NA	MG/KP 6/14/16	MG/KP 6/14/16			
		H21-SB03	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16			
H22	H-22	H22-SS01	NS 6/10/16				NS/JH 6/15/16			
		H22-SS02	NS 6/10/16				NS/JH 6/15/16			
		LC Samples	NS 6/10/16						No Liquid Present	
P113	Plotting Room 113	P113-SB01	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16	JS 6/17/16		
		P113-SB02	NS 6/10/16	NB 6/10/16	NA	MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		
		P113-SB03	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16	JS 6/17/16		
AGC3	Camp Hero State Park Bluffs	NA	*Debris removal completed 6/17/16*							
BG01	Background Samples	BG01-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS08	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
BG02	Background Samples	BG02-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS08	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
BG03	Background Samples	BG03-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/17/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
BG04	Background Samples	BG04-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			

Note - Items highlighted in green were completed on 6/17/16

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/19/2016 Sunday

DR No. 18		**WRITTEN BY**: Amanda Martin			**PROJECT NUMBER**: 60443903
Weather: 75°F Morning Clouds, Afternoon Sun		**Days without a lost time injury:** 18			
NAME:	**HRS**	**TRADE:**	**COMPANY:**	**EQUIPMENT:**	**VISITORS/AFFILIATION:**
Greta White	10.25	Alternate SSHO	AECOM	YSI 6920 Water Level Meter (3)	
Amanda Martin	10.25	Site Supervisor	AECOM	GeoTech Peristaltic Pump (3)	
Nicole Schulman	6.5	Geologist	AECOM	PID MiniRae 3000 (4)	
John Schroeder	10.25	Geologist	AECOM	PID MiniRae 2000 (1)	
Mike Glinski	10	Geologist	AECOM	Shondstadt Magnetometer	
Katie Priess	10	Environmental Scientist	AECOM		
Nina Bennerson	7.5	UXO Tech II	AECOM		
DAILY TOTAL	74.75				
TOTAL TO DATE	1428	*(on-site hours only)*			

SUBCONTRACTORS:	**SITE DELIVERIES (indicate size, type, and condition):**
None	None

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Groundwater Sampling

Groundwater samples were collected at the following AOCs.

Waste Disposal System (WDS) - Site Wide. Three groundwater samples were collected at WDS. Samples began on 6/17/16 at WDS-SB06 and WDS-SB09 were finalized. The sample at WDS-SB08 was collected for analysis of VOCs, SVOCs, PCBs, and metals. The temporary well at WDS-SB09 had insufficient recharge to fill all sample bottles (after four attempts); only VOCs, metals, and 3-1 L bottles for PNA and PCBs could be collected. Additionally, a partial sample was collected from WDS-SB07. Recharge was insufficient to fill all sample bottles after two attempts. One additional attempt will be made on 6/20/16 and whatever volume is collected will be submitted to the lab for analysis of a shortened analyte list.

Motor Pool (MP). One partial groundwater sample was collected from MP-SB02 for analysis of VOCs, SVOCs, and energetics. Recharge was insufficient to fill all sample bottles after ten attempts. One additional attempt will be made on 6/20/16 and whatever volume is collected will be submitted to the lab for analysis of a shortened analyte list.

Engineering Field Office (EFO). One partial groundwater sample was collected from EFO-SB01 for analysis of energetics. Recharge was insufficient to fill all sample bottles after ten attempts (need MS/MSD and Duplicate). One additional attempt will be made on 6/20/16.

Former Building 34. One groundwater sample was collected from 034-SB01 for analysis of PAHs, PCBs, and metals.

H-16. One groundwater sample was collected from H16-SB01 for analysis of VOCs, SVOCs, PCBs, and metals.

H-21. Two groundwater samples were collected from H21-SB02 and -SB03 for analysis of VOCs, SVOCs, PCBs, and metals. One partial sample was collected from H21-SB01; recharge was insufficient to fill all sample bottles. One additional attempt will be made on 6/20/16.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

Water Level Measurements

Water levels were measured in all temporary wells in the vicinity of Former Building 203, to determine radial flow on the hill adjacent to former Building 203. Wells gauged included those at AOCs FPH, AST-35, former Building 203 (including PZ-1 through PZ-3), Building 201 (Radar Tower), and WDS (-SB18 and -SB19 only). Water was present in all wells except the one at the Radar Tower (201-SB01). Groundwater samples will be collected from the temporary wells at a later date, with the exception of 201-SB01.

Additionally, approximately 5 ft of light non aqueous phase liquid (LNAPL) which appeared to be weathered petroleum product was observed in piezometer PZ-3, from approximately 8.00 ft btoc to 13.30 ft btoc, determined using an interface probe. Piezometer PZ-3 is located at AOC Former Building 203. AECOM notified the USACE Project Management (Gregory Geopfert and Megan Cullen) immediately.

NYS DEC Pollution Complaint Number 1602757

Due to LNAPL measured at PZ-3 at AOC Building 203, the USACE Project Management (Gregory Geopfert) and Megan Cullen) reported a petroleum release at AOC Building 203 to the NYS DEC hotline within 2 hours of discovery. Pollution Complaint Number PC-1602757 was assigned to the reported release. Mr. Dess (NYS Camp Hero Park Superintendent) was also notified that a release at former Building 203 had been reported to NYSDEC.

Building 107 (Electrical Substation) PCB Sampling

The team performed a survey of the transformers in the basement of Building 107 to identify any staining from the transformers. The team wore tyvek suites, rubber booties, respirators with P100/OV cartridges, hardhats, headlamps, and nitrile gloves while working inside the building, due to potential safety concerns with PCBs and working in old/abandoned buildings. Another team member was located outside the entrance of the building within earshot in case of emergencies.

Please see photos 4 and 5 of "transformers" below. After inspection of the units, these features on the wall may be more appropriately labeled as electrical distribution boxes. Previous reports have noted that transformers, which were formerly located outside Building 107, were previously properly decommissioned.

Parts of the transformer were still located in the basement of the building (see photos below). Dried product was present on part of the transformer. No staining was observed on the floor; however, most of the floor was covered in mats and/or heavy plywood/wooden ramps/walkways were covering much of the floorspace, and the team was not able to move the wooden objects to see the entire floorspace. Additionally, part of a metal rack which previously ran around the edge of the ceiling had collapsed over part of the transformer and part of the wooden planks.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/19/2016 Sunday

DR No. 18		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Building 107 (Electrical Substation) PCB Sampling (continued)

The team collected one PCB wipe sample on the outside of the transformer where dried product was observed. Additionally, a sample of dried product was collected from the transformer and the floor (where dried droplets could be picked up). Although no staining was observed, the team attempted to collect a concrete chip sample with a chisel and sledgehammer. After 2 hours of attempted sample collection, approximately only 2 oz of concrete chips had been collected, only 1/4 of the 8 oz requested by the laboratory. The team halted concrete chip sample collection to discuss a more efficient sample method.

AECOM ordered more heavy-duty tools (rotary drill-demolition hammer) for chip sample collection to collect the sample.
Concrete chip sample collection will be resumed Monday or Tuesday 6/20/16 when the demolition drill is available.

Materials Survey (Building 10)

The team performed a materials survey of Building 10 to inventory the oil and paint cans previously found by Tom Dess (State Park Superintendent). Materials found were inventoried by type, quantity, and size (see below). The team wore tyvek suites, rubber booties, respirators with P100/OV cartridges, hardhats, and nitrile gloves while working inside the building, due to potential safety concerns with working in old/abandoned buildings.

Item	Quantity	Location
Chevron HyJet IV, Phosphate Ester	25-1 Quart Metal Cans	Main Room
Mobil Jet Oil II	5-1 Quart Metal Cans	Main Room
Exxon Turbo Oil 2389	5-1 Quart Metal Cans	Main Room
Skydrol - Monsanto 500 B-4 Fire Starter Fluid	2-1 Gallon Metal Cans	Main Room
3100 Clean Compound Jet Engine Path Cleaner, B&B Chemical Company	2-5 Gallon Metal Cans	Main Room
Modern All-Purpose Enamel	4-1 Gallon Metal Cans	Back Room

All cans in the Main Room were in poor condition - most were leaking or had leaked, were bulging, rusty, and the labels were barely readable. In the back room, the four Enamel cans were severely rusted and fused to the cart on which they were sitting. (See photos below.)

Sample Management and Shipment

Soil and groundwater samples collected collected on Friday 6/17/16 and Sunday 6/19/16 were Quality Control checked and recorded on Chain of Custody records, and stored on fresh ice for shipment on Monday 6/20/16.

WORK COMPLETED BY AECOM SUBCONTRACTORS

None

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

AECOM ordered a more heavy-duty tools (demolition hammer) for concrete chip sample collection to collect the concrete chip samples.
Concrete chip sample collection will be resumed Tuesday 6/19/16 when the demolition drill is available. As a result, the concrete chip sampling in Battery 113 was rescheduled for Tuesday 6/21/16, instead of Monday 6/20/16, per conversation with Tom Dess (NYS Parks Superintendent).

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/19/2016 Sunday

DR No. 18		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

As mentioned above, the team wore tyvek suits, rubber booties, respirators with P100/OV cartridges, hardhats, headlamps, and nitrile gloves while working inside Buildings 10 and 107, due to potential health and safety concerns with PCBs and working in old/abandoned buildings. Another team member was located outside the entrance of the building within ear shot in case of emergencies.

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

Daily Photos

Photo 1. Miscellaneous cans in Main Room of Building 10.

Photo 2. Cans of All-Purpose Enamel in Back Room of Building 10.

Photo 3. G White and A Martin in safety attire before entering Building 107 (Electrical Substation) for PCB sampling.

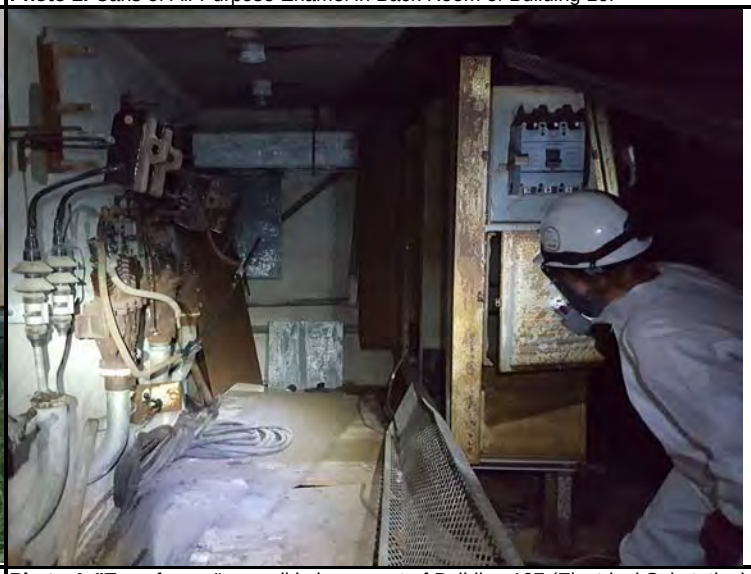

Photo 4. "Transformer" on wall in basement of Building 107 (Electrical Substation). Please also see photo 5 below, after inspection of the units, these features on the wall may be more appropriately labeled as electrical distribution boxes. Transformers were formerly located outside the building on nearby pads which were previously properly decommissioned.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/19/2016 Sunday

DR No. 18		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

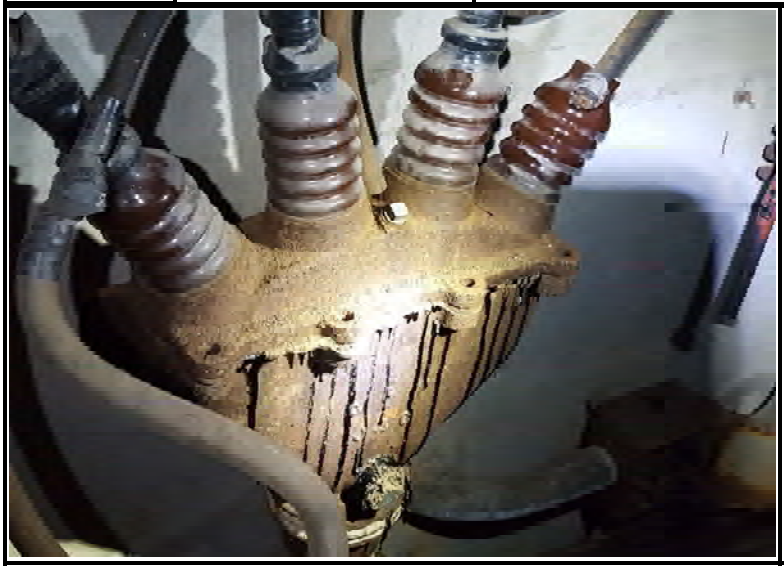

Photo 5. Dried product on outside of "transformer". This feature may more appropriately be identified as distribution boxes or electrical splitters. AECOM is following up with staff electrician for proper identification and reference in future reports. One wipe sample was collected from the casing surface; additionally, chips of the dried product were collected for analysis. Concrete chip samples are scheduled to be taken beneath the unit.

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/19/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
B113	Battery 113	113-CC01								
		113-CC02								
		113-CC03								
		113-LC01 to LC03								
203	Former Building 203	203-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		203-SB02	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		203-SB03	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		203-SB04	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16			
		203-SB05	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16			
		PZ-1	AM 6/16/16	NB 6/16/16	NYSP 6/15/16	MG/KP 6/16/16				
		PZ-2	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				
		PZ-3	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				
2010	Building 2010 (UST 30)	2010-SB01	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	No Well		
		2010-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16	No Well		
		2010-SB02	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	KL 6/12/16		
		2010-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
F100C	Building F100C (UST 34)	F100C-SB01	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
		F100C-SB02	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
AST35	AST 35/H-13	AST35-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/16/16		
		AST35-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
FPH	Fuel Pump House and Distribution Line for AST-35	FPH-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL 6/14/16		
		FPH-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
STB	Building 22 (Tank B)	STB-SB01	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB02	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB03	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		
		STB-SB03 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SB04	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		
		STB-SB04 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		STB-SS05	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS05 - REDO					MG/KP 6/15/16			
		STB-SS06	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS06 - REDO					MG/KP 6/15/16			
		STB-SS07	BMG 6/7/16	NB 6/7/16			MG 6/8/16			
		STB-SS07 - REDO					MG/KP 6/15/16			
3001	Building 3001	3001-MW01								
112	Battery 112 (UST 36, 37)	112-CC01								
		112-CC02								
		112-CC03								
107	Building 107	107-LC01								
201	Building 201	201-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	NA DRY 6/19/16		
		201-WP01								

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/19/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
WDS	Abandoned Waste Disposal Systems (Site-wide)	WDS-SB01	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		
		WDS-SB02	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/14/16	MG/KP 6/14/16	NS/JH 6/16/16		
		WDS-SB03	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		
		WDS-SB04	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB05	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB06	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	KP 6/18/16		
		WDS-SB07	AM 6/14/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	KP 6/18/16 - part		
		WDS-SB08	BMG 6/9/16	NG 6/10/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		WDS-SB09	NS 6/10/16	NB 6/10/16		MG/KP 6/13/16	MG/KP 6/13/16	KP 6/18/16		
		WDS-SB10	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		
		WDS-SB11	AM 6/12/16	NB 6/14/16		MG/KP 6/13/16	MG/KP 6/13/16	JS 6/17/16		
		WDS-SB12	BMG 6/9/16	NB 6/9/16		MG/KP 6/13/16	MG/KP 6/13/16	KP 6/17/16		
		WDS-SB13	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		WDS-SB14	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	NA DRY 6/17/16		
		WDS-SB15	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	MG 6/17/16		
		WDS-SB16	NS 6/12/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	NA DRY 6/17/16		
		WDS-SB17	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	NA DRY 6/17/16		
		WDS-SB18	NS 6/6/16	NB 6/14/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16			
		WDS-SB19	NS 6/6/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16			
		WDS-SB20	BMG/NS 6/6/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/12/16		
		WDS-SB20 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
		WDS-SB21	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/12/16		
		WDS-SB22	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB23	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
		WDS-SB24	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KL 6/9/16		
		WDS-SB25	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB26	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		WDS-SB27	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
MP	Motor Pool	MP-SB01	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	JS 6/16/16		
		MP-SB02	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/19/16 - part		
		MP-SB03	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		MP-MW01								
EFO	Engineering Field Office	EFO-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/19/16 - part		
034	Former Building 34	034-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/19/16		
		034-SS02	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS03	BMG 6/9/16	NB 6/9/16			NS/JH 6/13/16			
		034-SS04	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS05	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
H1	H-1	H1-SS01	NS/AM 6/6/16				NS/JH 6/15/16			
		H1-SS02	NS/AM 6/6/16				NS/JH 6/15/16			
		LC Samples	NS/AM 6/6/16						No Liquid Present	
H2	H-2	H2-SS01	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			
		H2-SS02	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			
		LC Samples	BMG 6/9/16	NB 6/9/16					No Liquid Present	
H3	H-3	H3-SS01	NS 6/6/16				MG/KP 6/7/16			
		H3-SS02	NS 6/6/16				MG/KP 6/7/16			
		LC Samples	NS 6/6/16						No Liquid Present	
H4	H-4	H4-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
		H4-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H4-SB03	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
H5	H-5	H5-SS01	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS02	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS03	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS04	BMG/NS 6/9/16				MG/KP 6/13/16			
		LC Samples	BMG/NS 6/9/16							
H6	H-6	H6-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
		H6-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H6-SB03	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
H9	H-9	H9-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
		H9-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
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AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
H11	H-11	H11-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		
		H11-SB02	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	MG/KP 6/7/16		
H12	H-12	H12-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		
H14	H-14	H14-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	MG 6/17/16		
		H14-SB02	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16	NA DRY 6/17/16		
		H14-SB03	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16	MG 6/17/16		
H15	H-15	H15-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
		H15-SB02	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
		H15-SB03	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
H16	H-16	H16-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/13/16	MG/KP 6/13/16	JS 6/19/16		
H17	H-17	H17-SB01	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB02	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB03	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		
		H17-SB01 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16	NA DRY 6/19/16		
		H17-SB02 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16			
		H17-SB03 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16			
H18	H-18	H18-SS01	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		H18-SS02	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		LC Samples	BMG 6/7/16	NB 6/7/16					No Liquid Present	
H19	H-19	H19-SS01	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		
		H19-SS02	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		
H20	H-20	H20-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		H20-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		LC Samples	NS 6/6/16	NB 6/6/16					No Liquid Present	
H21	H-21	H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	MG 6/19/16 - part		
		H21-SB02	BMG/NS 6/9/16	NB 6/10/16	NA	MG/KP 6/14/16	MG/KP 6/14/16	MG 6/19/16		
		H21-SB03	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	MG 6/19/16		
H22	H-22	H22-SS01	NS 6/10/16				NS/JH 6/15/16			
		H22-SS02	NS 6/10/16				NS/JH 6/15/16			
		LC Samples	NS 6/10/16						No Liquid Present	
P113	Plotting Room 113	P113-SB01	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16	JS 6/17/16		
		P113-SB02	NS 6/10/16	NB 6/10/16	NA	MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		
		P113-SB03	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16	JS 6/17/16		
AGC3	Camp Hero State Park Bluffs	NA	*Debris removal completed 6/17/16*							
BG01	Background Samples	BG01-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS08	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
BG02	Background Samples	BG02-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG02-SS08	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
BG03	Background Samples	BG03-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/19/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
BG04	Background Samples	BG04-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			
		BG04-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			

Note - Items highlighted in green were completed on 6/19/16

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/20/2016 Monday

DR No. 19		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: 75°F Morning Clouds, Afternoon Sun		**Days without a lost time injury:** 19	

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Kelly Lurie	1	SSHO	AECOM	YSI 6920 Water Level Meter (3)	
Greta White	9.25	Alternate SSHO	AECOM	YSI 6920 Water Level Meter (3)	
Amanda Martin	10.25	Site Supervisor	AECOM	GeoTech Peristaltic Pump (3)	
Nicole Schulman	10.25	Geologist	AECOM	PID MiniRae 3000 (4)	
John Schroeder	10.25	Geologist	AECOM	PID MiniRae 2000 (1)	
Mike Glinski	10.25	Geologist	AECOM	Shondstadt Magnetometer	
Katie Priess	10.25	Environmental Scientist	AECOM	Trimble Geo XH	
Nina Bennerson	10.25	UXO Tech II	AECOM	Surveying Equipment (CGE)	
Tony Fiorentone	9.5	Surveyor	CGE		
Chris Gamble	9.5	Surveyor	CGE		
DAILY TOTAL	90.75				
TOTAL TO DATE	1518.75	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
None	None

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day. Kelly Lurie arrived on-site at 1600 and replaced Greta White as the SSHO, after which Ms. White demobilized from the site.

Groundwater Sampling

Groundwater samples were collected at the following AOCs.

Former Building 203. One groundwater sample was collected at 203-SB01 for analysis of VOCs, SVOCs, PCBs, and metals. Four partial samples were collected at 203-SB02, -SB03, -SB04, and -SB05. Recharge in these wells was insufficient to fill all required sample bottleware. Approximately 1-Liter of water was produced at each well over 6 hours of sample collection. Additional attempts will be made on 6/21/16; if sufficient volume cannot be collected, the volume collected will be sent to the laboratory for a shortened analyte list.

Waste Disposal System (WDS) - Site Wide. The partial groundwater sample from WDS-SB07 began on 6/19/16 was finalized for analysis of VOCs, SVOCs, PCBs, and metals. Recharge was insufficient to fill all sample bottles after four attempts; only 3 amber liters could be collected. Two were submitted for analysis of PAHs and one for PCBs.

Two partial samples were collected at WDS-SB18 and -SB19. Recharge in these wells was insufficient to fill all required sample bottleware. Additional attempts will be made on 6/21/16 and the volume is collected will be submitted to the lab for analysis of a shortened analyte list.

Motor Pool (MP). The partial groundwater sample from MP-SB02 was finalized for analysis of VOCs, SVOCs, and energetics.

Engineering Field Office (EFO). The partial groundwater sample from EFO-SB01 was finalized for analysis of energetics.

H-21. The partial sample was from H21-SB01 was finalized for analysis of VOCs, SVOCs, PCBs, and metals.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

Surveying and GPS Coordinate Collection

GPS co-ordinates for borings/temporary wells and surface soil samples were collected at AOCs STB (Building 22), H-11, H-12, H-17, WDS (-SB18 through -SB27), Building 2010, and Building 201 in conjuction with surveying oversight. AECOM collection Northing and Easting co-ordinates (x,y), while the CGE Surveyors collected elevation data. (See details below in "Work Completed by AECOM Subcontractors."

Sample Management and Shipment

Soil and groundwater samples collected collected on Friday 6/17/16, Saturday 6/19/16, and Monday 6/20/16 were Quality Control checked, recorded on Chain of Custody records, and packed for shipment. Eight coolers were shipped overnight via FedEx for delivery to RTI Labortories (Livonia, MI). Chain of Custody records were e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking.

WORK COMPLETED BY AECOM SUBCONTRACTORS

Two new team members from Clean Globe Environmental (CGE), Tony Fiorentone and Chris Gamble, arrived on site. They received UXO Awareness Training and reviewed/signed all applicable Activity Hazard Analyses (AHAs) in the on-site Accident Prevention Plan (APP). CGE completed surveying for elevation information at AOCs STB (Building 22), H-11, H-12, H-17, WDS (-SB18 through -SB27), Building 2010, and Building 201. CGE was off-site from 1330 to 1400 for lunch.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/20/2016 Monday

DR No. 19		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 11 team members would be on site on 6/20/16 (including USACE, AECOM, and CGE).

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

Daily Photos

Photo 1. N Schulman collecting GPS co-ordinates as AST-35.

Photo 2. CGE Surveying locations at the Fuel Pump House.

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/20/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
B113	Battery 113	113-CC01								
		113-CC02								
		113-CC03								
		113-LC01 to LC03								
203	Former Building 203	203-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	KP 6/20/16		
		203-SB02	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	MG 6/20/16 - PART		
		203-SB03	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	MG 6/20/16 - PART		
		203-SB04	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16	JS 6/20/16 - PART		
		203-SB05	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16	JS 6/20/16 - PART		
		PZ-1	AM 6/16/16	NB 6/16/16	NYSP 6/15/16	MG/KP 6/16/16				
		PZ-2	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				
		PZ-3	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				
2010	Building 2010 (UST 30)	2010-SB01	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	No Well		NS/CGE 6/20/16
		2010-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16	No Well		
		2010-SB02	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	KL 6/12/16		NS/CGE 6/20/16
		2010-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
F100C	Building F100C (UST 34)	F100C-SB01	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
		F100C-SB02	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
AST35	AST 35/H-13	AST35-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/16/16		
		AST35-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
FPH	Fuel Pump House and Distribution Line for AST-35	FPH-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL 6/14/16		
		FPH-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
STB	Building 22 (Tank B)	STB-SB01	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		NS/CGE 6/20/16
		STB-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SB02	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		NS/CGE 6/20/16
		STB-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SB03	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		NS/CGE 6/20/16
		STB-SB03 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SB04	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		NS/CGE 6/20/16
		STB-SB04 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SS05	BMG 6/7/16	NB 6/7/16			MG 6/8/16			NS 6/20/16
		STB-SS05 - REDO					MG/KP 6/15/16			NS 6/20/16
		STB-SS06	BMG 6/7/16	NB 6/7/16			MG 6/8/16			NS 6/20/16
		STB-SS06 - REDO					MG/KP 6/15/16			NS 6/20/16
		STB-SS07	BMG 6/7/16	NB 6/7/16			MG 6/8/16			NS 6/20/16
		STB-SS07 - REDO					MG/KP 6/15/16			NS 6/20/16
3001	Building 3001	3001-MW01								
112	Battery 112 (UST 36, 37)	112-CC01								
		112-CC02								
		112-CC03								
107	Building 107	107-LC01								
201	Building 201	201-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	NA DRY 6/19/16		NS/CGE 6/20/16
		201-WP01								

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/20/2016

WDS	Abandoned Waste Disposal Systems (Site-wide)	WDS-SB01	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		
		WDS-SB02	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/14/16	MG/KP 6/14/16	NS/JH 6/16/16		
		WDS-SB03	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		
		WDS-SB04	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB05	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB06	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	KP 6/19/16		
		WDS-SB07	AM 6/14/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	KP 6/20/16		
		WDS-SB08	BMG 6/9/16	NG 6/10/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		WDS-SB09	NS 6/10/16	NB 6/10/16		MG/KP 6/13/16	MG/KP 6/13/16	KP 6/18/16		
		WDS-SB10	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		
		WDS-SB11	AM 6/12/16	NB 6/14/16		MG/KP 6/13/16	MG/KP 6/13/16	JS 6/17/16		
		WDS-SB12	BMG 6/9/16	NB 6/9/16		MG/KP 6/13/16	MG/KP 6/13/16	KP 6/17/16		
		WDS-SB13	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		WDS-SB14	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	NA DRY 6/17/16		
		WDS-SB15	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	MG 6/17/16		
		WDS-SB16	NS 6/12/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	NA DRY 6/17/16		
		WDS-SB17	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	NA DRY 6/17/16		
		WDS-SB18	NS 6/6/16	NB 6/14/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16	JS 6/20/16 - PART		NS/CGE 6/20/16
		WDS-SB19	NS 6/6/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	JS 6/20/16 - PART		NS/CGE 6/20/16
		WDS-SB20	BMG/NS 6/6/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/12/16		NS/CGE 6/20/16
		WDS-SB20 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		WDS-SB21	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/12/16		NS/CGE 6/20/16
		WDS-SB22	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		WDS-SB23	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		NS/CGE 6/20/16
		WDS-SB24	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KL 6/9/16		NS/CGE 6/20/16
		WDS-SB25	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		WDS-SB26	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		WDS-SB27	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
MP	Motor Pool	MP-SB01	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	JS 6/16/16		
		MP-SB02	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/20/16		
		MP-SB03	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		MP-MW01								
EFO	Engineering Field Office	EFO-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/20/16		
034	Former Building 34	034-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/19/16		
		034-SS02	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS03	BMG 6/9/16	NB 6/9/16			NS/JH 6/13/16			
		034-SS04	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS05	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
H1	H-1	H1-SS01	NS/AM 6/6/16				NS/JH 6/15/16			
		H1-SS02	NS/AM 6/6/16				NS/JH 6/15/16			
		LC Samples	NS/AM 6/6/16						No Liquid Present	
H2	H-2	H2-SS01	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			
		H2-SS02	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			
		LC Samples	BMG 6/9/16	NB 6/9/16					No Liquid Present	
H3	H-3	H3-SS01	NS 6/6/16				MG/KP 6/7/16			
		H3-SS02	NS 6/6/16				MG/KP 6/7/16			
		LC Samples	NS 6/6/16						No Liquid Present	
H4	H-4	H4-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
		H4-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H4-SB03	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
H5	H-5	H5-SS01	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS02	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS03	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS04	BMG/NS 6/9/16				MG/KP 6/13/16			
		LC Samples	BMG/NS 6/9/16							
H6	H-6	H6-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
		H6-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H6-SB03	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
H9	H-9	H9-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
		H9-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
H11	H-11	H11-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		H11-SB02	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	MG/KP 6/7/16		NS/CGE 6/20/16
H12	H-12	H12-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		NS/CGE 6/20/16

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H14	H-14	H14-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	MG 6/17/16	
		H14-SB02	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16	NA DRY 6/17/16	
		H14-SB03	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16	MG 6/17/16	
H15	H-15	H15-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16	
		H15-SB02	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16	
		H15-SB03	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16	
H16	H-16	H16-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/13/16	MG/KP 6/13/16	JS 6/19/16	
H17	H-17	H17-SB01	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached	NS/CGE 6/20/16
		H17-SB02	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached	NS/CGE 6/20/16
		H17-SB03	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached	NS/CGE 6/20/16
		H17-SB01 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16	NA DRY 6/19/16	NS/CGE 6/20/16
		H17-SB02 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16		NS/CGE 6/20/16
		H17-SB03 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16		NS/CGE 6/20/16
H18	H-18	H18-SS01	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16		
		H18-SS02	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16		
		LC Samples	BMG 6/7/16	NB 6/7/16				No Liquid Present	
H19	H-19	H19-SS01	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA	
		H19-SS02	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA	
H20	H-20	H20-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16		
		H20-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16		
		LC Samples	NS 6/6/16	NB 6/6/16				No Liquid Present	
H21	H-21	H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	MG 6/20/16	
		H21-SB02	BMG/NS 6/9/16	NB 6/10/16	NA	MG/KP 6/14/16	MG/KP 6/14/16	MG 6/19/16	
		H21-SB03	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	MG 6/19/16	
H22	H-22	H22-SS01	NS 6/10/16				NS/JH 6/15/16		
		H22-SS02	NS 6/10/16				NS/JH 6/15/16		
		LC Samples	NS 6/10/16					No Liquid Present	
P113	Plotting Room 113	P113-SB01	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16	JS 6/17/16	
		P113-SB02	NS 6/10/16	NB 6/10/16	NA	MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16	
		P113-SB03	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16	JS 6/17/16	
AGC3	Camp Hero State Park Bluffs	NA	*Debris removal completed 6/17/16*						
BG01	Background Samples	BG01-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16		
		BG01-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16		
		BG01-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16		
		BG01-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16		
		BB01-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16		
		BB01-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16		
		BB01-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16		
		BB01-SS08	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16		
BG02	Background Samples	BG02-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG02-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG02-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG02-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG02-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG02-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG02-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG02-SS08	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
BG03	Background Samples	BG03-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG03-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG03-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG03-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG03-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG03-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
		BG03-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16		
BG04	Background Samples	BG04-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16		
		BG04-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16		
		BG04-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16		
		BG04-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16		
		BG04-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16		
		BG04-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16		
		BG04-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16		

Note - Items highlighted in green were completed on 6/20/16

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/21/2016 Tuesday

DR No. 20		**WRITTEN BY**: Amanda Martin			**PROJECT NUMBER**: 60443903
Weather: 75°F Morning Showers, Afternoon Sun		**Days without a lost time injury:** 20			
NAME:	**HRS**	**TRADE:**	**COMPANY:**	**EQUIPMENT:**	**VISITORS/AFFILIATION:**
Kelly Lurie	11	SSHO	AECOM	YSI 6920 Water Level Meter (3)	Mark Keonig, USACE
Amanda Martin	11	Site Supervisor	AECOM	GeoTech Peristaltic Pump (3)	
Nicole Schulman	11	Geologist	AECOM	PID MiniRae 3000 (4)	
John Schroeder	11	Geologist	AECOM	PID MiniRae 2000 (1)	
Mike Glinski	11	Geologist	AECOM	Shondstadt Magnetometer	
Katie Priess	11	Environmental Scientist	AECOM	Trimble Geo XH	
Nina Bennerson	11	UXO Tech II	AECOM	Generator (CGE)	
Chris Gamble	10	Surveyor	CGE	Hammer Drill (CGE)	
DAILY TOTAL	87				
TOTAL TO DATE	1605.75	*(on-site hours only)*			

SUBCONTRACTORS:	**SITE DELIVERIES (indicate size, type, and condition):**
None	None

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Groundwater Sampling

Groundwater samples were collected at the following AOCs.

Former Building 203. Four groundwater samples were finalized at 203-SB02, -SB03, -SB04, and -SB05. Recharge in the wells was insufficient to fill all desired sample bottleware after over 10 attempts per well over two days; analyses able to be collected are described below.

- -SB02 VOCs, metals, 2 full Liters and 1 partial liter for SVOC-PNA, and 2-L for PCBs were collected.
- -SB03 VOCs, metals, 2 full Liters and 1 partial liter for SVOC-PNA, and 2-L for PCBs were collected.
- -SB04 VOCs, metals, and 1.5-L for SVOC-PNA were collected.
- -SB05 VOCs, metals, and 2-L for SVOC-PNA were collected.

Waste Disposal System (WDS) - Site Wide. The partial groundwater samples at WDS-SB18 and -SB19 were finalized for analysis of VOCs, SVOCs, PCBs, and metals. Recharge in these wells was insufficient to fill all desired sample bottleware after 10 attempts over two days; only two or three amber liters could be collected instead of six.

H-14. Two groundwater samples were collected from H14-SB01 and H14-SB03 for analysis of PAHs and metals.

H-17. One groundwater sample was collected from H17-SB03 and H14-SB03 for analysis of VOCs, SVOCs, PCBs, and metals. Additionally, one partial groundwater sample was collected from H17-SB02. Recharge in the well was insufficient to fill all sample bottleware; additional attempts will be made to complete the sample on 6/22/16.

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

Battery 113 Survey and Sample Collection

A site survey of Battery 113 was conducted to identify the presence of tanks and waste drums, assess if standing water was present in pits, and identify visual evidence of potentially PCB-contaminated stained concrete. Prior to entering the building, the team conducted demolition of the sealed entryway to Battery 113 to create an entrance for the team, using a hammer drill and sledge hammer. Appropriate safety protocols were observed (see "Safety Observations" Section).

Four team members entered the battery to complete the survey. Team members woree tyvek suites, rubber booties, nitrile gloves, full or half-face respirators with P100/OV cartridges, hardhats, and head lamps. The buddy system was utilized while inside the Battery; no team member was ever left alone. Additionally, at least one team member was stationed outside the entrance of the Battery at all times to 1) prevent park visitors from trespassing in the secure area and attempting to enter, 2) as a safety precaution for the people inside, and 3) to bring additional supplies to the people ' inside the Battery so they wouldn't have to exit until the work was complete. The team used extreme caution navigating the battery and taking care with where to step; many of the pit/manhole covers were not stable and were collapsing. Additionally, white mold was present throughout the building on walls, ceilings, old furniture, and other structures.

Two pits with standing water were observed (see locations indicated on attached field map). Additional pits/open manholes/trenches were observed throughout the Battery, but no others contained standing water. One liquid characterization sample was collected from an open pit (B113-LC02-01) for disposal purposes (analyses: VOCs, SVOCs, PCBs, and metals). A second sample was not collected from the other pit with water because it appeared to contain human waste.

Approximately mid-way down the main hallway, another narrow hallway led to the Power Room where Tanks 3 and 4 were still present on the wall. No labels were present on the tanks, but the team approximates that each tanks had a 250 gallon capacity. The team was able to determine that fluid was still present in the Tanks; however, the team could not tell how full the tanks were. There was a level meter on the wall that potentially measured tank volume, which read 3/4 full; however, the team could not verify the meter's purpose or whether it was still working. The cylinders below Tanks 3 and 4 were not labeled (or were too rusted to read the labels; however, they appeared to be empty (hollow noise when the team knocked on the cylinders).

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/21/2016 Tuesday

DR No. 20		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (continued)

Battery 113 Survey and Sample Collection (continued)

One liquid characterization sample (B113-LC01-01) was collected from diesel Tanks 3 and 4 and taken for fuel analysis, ignitability, and toxicity for purposes of disposal characterization. Approximtaly 16 L of volume was collected and volume was still present in the tanks.

Trenches with piping were present in the room with the tanks; some of the trenches were covered with metal plate covers and others were covered with wooden planks. The wooden planks were rotting and falling apart in most places. No tanks or storage units were observed in the trenches. Additionally, the Cashin report had mentioned drums present in the Tanks 3 and 4 room. No drums were present at the time of the survey.

No transformer units were observed on the main hallway of the Battery. However, a transformer room was present adjacent to the power room where the 2 diesel tanks were located. Portions of the transformer were remaining; dried oil was observed on parts of the transformer and staining was noted on the concrete floor (see photos below). One wipe sample (B113-WP01-01) was collected from the oil-stained surface of the transformer; one concrete chip sample (B113-CC01-01) was collected at the locationof the stained concrete, using the hammer drill with a decontaminated drill bit. Additionally, an equipment blank was collected from the decontaminated drill bit after sampling.

Surveying and GPS Coordinate Collection

GPS co-ordinates for surface soil sample locations were collected at AOCs H-1, H-1, H-19, H-22, BG02, and BG04.

Sample Management and Shipment

No samples were shipped to RTI Laboratories on 6/21/16. Groundwater samples began on 6/20/16 were finalized and additional concrete chip, wipe, and liquid chatacterization samples were collected on 6/21/16. All samples were held on fresh ice overnight for shipment on 6/22/16.
The fuel sample from the diesel tanks were arranged to be taken to AB Environmental laboratory for purposes of disposal charcaterization.

WORK COMPLETED BY AECOM SUBCONTRACTORS

Chris Gamble (CGE) was on site and completed demolition of the Battery 113 entrance for AECOM to access the bunker. Additionally, Mr. Gamble was stationed outside the entrance to Battery 113 while team members were inside to prevent trespassers from entering and as a safety precaution.
Once the work at Battery 113 was complete for the day, Mr. Gamble assisted with GPS co-ordinate collection for surface soil sample locations at AOCs H-1, H-1, H-19, H-22, BG02, and BG04.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 10 team members would be on site on 6/20/16 (including USACE, AECOM, and CGE).

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

Hearing protection, eye protection, utility glvoes, hard hats, and saftey boots were utilized by the team during demolition of the Battery 113 entrance. All team members that entered Battery 113 wore tyvek suites, rubber booties, nitrile gloves, full or half-face respirators with P100/OV cartridges, hardhats, and head lamps.
The buddy system was utilized while inside the Battery; no team member was ever left by themselves. Additionally, at least one team member was stationed outside the entrance of the Battery at all times to 1) prevent park visitors from attempting to enter, 2) as a safety precaution for the people inside, and 3) to bring additional supplies to the people inside the Battery so they wouldn't have to exit until the work was complete.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/21/2016 Tuesday

DR No. 20		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

Daily Photos

Photo 1. Demolition of Battery 113 entrance.

Photo 2. Demolition of Battery 113 entrance.

Photo 3. The team in safety gear before entering Battery 113.

Photo 4. Standing water in pit near entrance inside Battery 113. (This pit was not sampled).

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/21/2016 Tuesday

DR No. 20		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

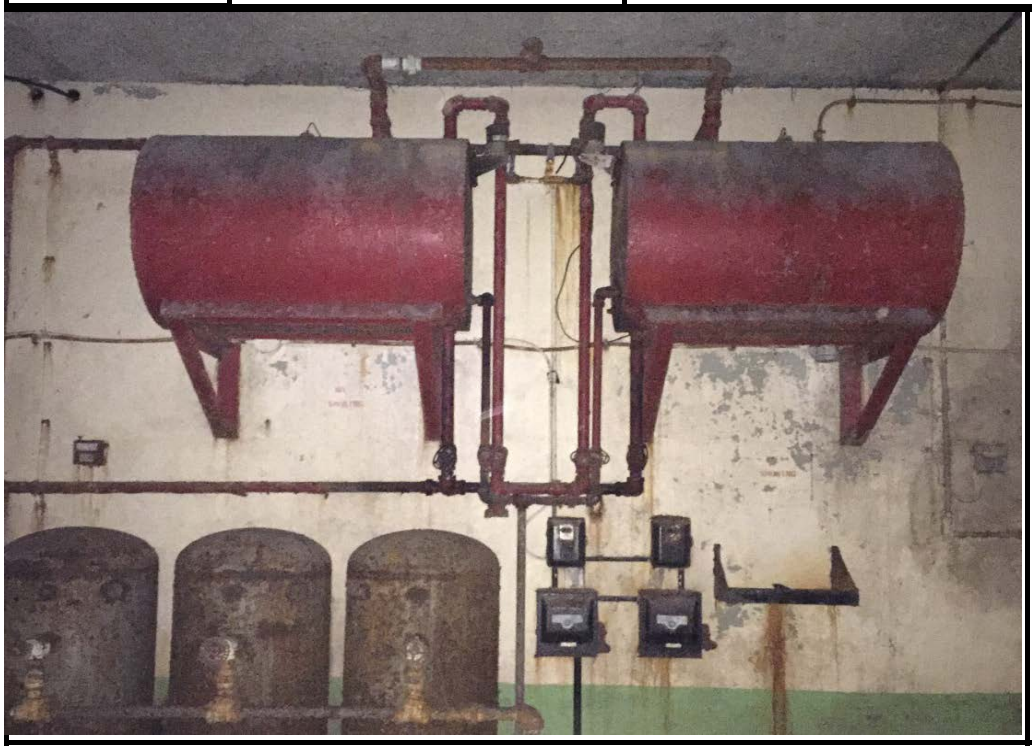

Photo 5. Storage tanks with petroleum product inside Battery 113. One liquid characterization sample was collected here (B113-LC01-01). The contents are suspected to be weathered diesel or fuel oil.

Photo 6. Piping under wooden floorboard in tank room of Battery 113. No tanks were identified in the trenches.

Photo 7. Rotting wooden floorboards over piping inside tank room (Battery 113).

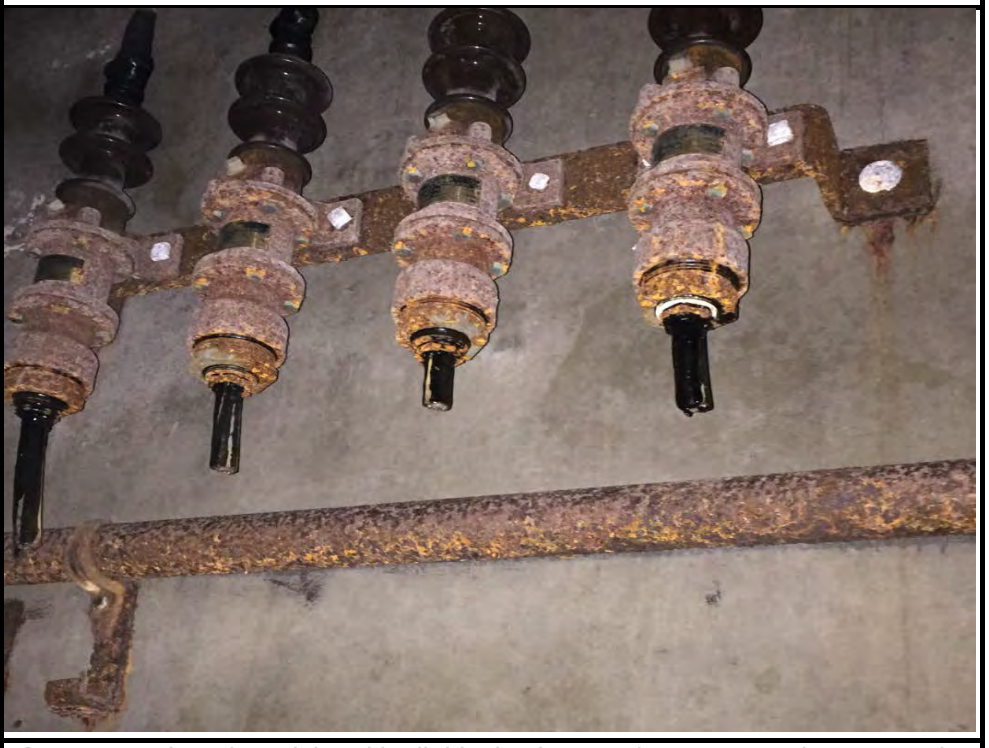

Photo 8. Portion of conduits with oil dripping in Transformer Room (Battery 113). One wipe sample (B113-WP01-01) was collected here for analysis of PCBs.

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Photo 9. Concrete chip sampling with Hammer Drill in Transformer Room (Battery 113).

Photo 10. Floor staining in Transformer Room (Battery 113). One concrete chip sample was collected here (B113-CC01-01) for analysis of PCBs.

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/21/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
B113	Battery 113	113-CC01							AM/JS 6/21/16	
		113-WP01							AM/JS 6/21/16	
		113-LC01							AM/JS 6/21/16	
		113-LC02							KL/NB 6/21/16	
203	Former Building 203	203-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	KP 6/20/16		
		203-SB02	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	JS/KP 6/21/16		
		203-SB03	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	JS/KP 6/21/16		
		203-SB04	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16	MG 6/21/16		
		203-SB05	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16	MG 6/21/16		
		PZ-1	AM 6/16/16	NB 6/16/16	NYSP 6/15/16	MG/KP 6/16/16				
		PZ-2	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				
		PZ-3	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				
2010	Building 2010 (UST 30)	2010-SB01	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	No Well		NS/CGE 6/20/16
		2010-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16	No Well		
		2010-SB02	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	KL 6/12/16		NS/CGE 6/20/16
		2010-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
F100C	Building F100C (UST 34)	F100C-SB01	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
		F100C-SB02	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		
AST35	AST 35/H-13	AST35-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/16/16		
		AST35-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
		AST35-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		
FPH	Fuel Pump House and Distribution Line for AST-35	FPH-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL 6/14/16		
		FPH-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
		FPH-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		
STB	Building 22 (Tank B)	STB-SB01	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		NS/CGE 6/20/16
		STB-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SB02	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		NS/CGE 6/20/16
		STB-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SB03	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		NS/CGE 6/20/16
		STB-SB03 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SB04	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		NS/CGE 6/20/16
		STB-SB04 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SS05	BMG 6/7/16	NB 6/7/16			MG 6/8/16			NS 6/20/16
		STB-SS05 - REDO					MG/KP 6/15/16			NS 6/20/16
		STB-SS06	BMG 6/7/16	NB 6/7/16			MG 6/8/16			NS 6/20/16
		STB-SS06 - REDO					MG/KP 6/15/16			NS 6/20/16
		STB-SS07	BMG 6/7/16	NB 6/7/16			MG 6/8/16			NS 6/20/16
		STB-SS07 - REDO					MG/KP 6/15/16			NS 6/20/16
3001	Building 3001	3001-MW01								
112	Battery 112 (UST 36, 37)	112-CC01							No Access	
		112-CC02							No Access	
		112-CC03							No Access	
107	Building 107	107-CC01								
		107-WP01								
		107-LC01								
201	Building 201	201-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	NA DRY 6/19/16		NS/CGE 6/20/16
		201-WP01							No Access	

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/21/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
WDS	Abandoned Waste Disposal Systems (Site-wide)	WDS-SB01	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		
		WDS-SB02	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/14/16	MG/KP 6/14/16	NS/JH 6/16/16		
		WDS-SB03	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		
		WDS-SB04	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB05	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB06	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	KP 6/19/16		
		WDS-SB07	AM 6/14/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	KP 6/20/16		
		WDS-SB08	BMG 6/9/16	NG 6/10/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		WDS-SB09	NS 6/10/16	NB 6/10/16		MG/KP 6/13/16	MG/KP 6/13/16	KP 6/18/16		
		WDS-SB10	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		
		WDS-SB11	AM 6/12/16	NB 6/14/16		MG/KP 6/13/16	MG/KP 6/13/16	JS 6/17/16		
		WDS-SB12	BMG 6/9/16	NB 6/9/16		MG/KP 6/13/16	MG/KP 6/13/16	KP 6/17/16		
		WDS-SB13	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		WDS-SB14	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	NA DRY 6/17/16		
		WDS-SB15	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	MG 6/17/16		
		WDS-SB16	NS 6/12/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	NA DRY 6/17/16		
		WDS-SB17	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	NA DRY 6/17/16		
		WDS-SB18	NS 6/6/16	NB 6/14/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16	JS/KP 6/21/16		NS/CGE 6/20/16
		WDS-SB19	NS 6/6/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	JS/KP 6/21/16		NS/CGE 6/20/16
		WDS-SB20	BMG/NS 6/6/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/12/16		NS/CGE 6/20/16
		WDS-SB20 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		WDS-SB21	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/12/16		NS/CGE 6/20/16
		WDS-SB22	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		WDS-SB23	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		NS/CGE 6/20/16
		WDS-SB24	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KL 6/9/16		NS/CGE 6/20/16
		WDS-SB25	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		WDS-SB26	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		WDS-SB27	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
MP	Motor Pool	MP-SB01	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	JS 6/16/16		
		MP-SB02	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/20/16		
		MP-SB03	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		
		MP-MW01								
EFO	Engineering Field Office	EFO-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/20/16		
034	Former Building 34	034-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/19/16		
		034-SS02	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS03	BMG 6/9/16	NB 6/9/16			NS/JH 6/13/16			
		034-SS04	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
		034-SS05	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			
H1	H-1	H1-SS01	NS/AM 6/6/16				NS/JH 6/15/16			NS/CGE 6/21/16
		H1-SS02	NS/AM 6/6/16				NS/JH 6/15/16			NS/CGE 6/21/16
		LC Samples	NS/AM 6/6/16						No Liquid Present	
H2	H-2	H2-SS01	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			NS/CGE 6/21/16
		H2-SS02	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			NS/CGE 6/21/16
		LC Samples	BMG 6/9/16	NB 6/9/16					No Liquid Present	
H3	H-3	H3-SS01	NS 6/6/16				MG/KP 6/7/16			
		H3-SS02	NS 6/6/16				MG/KP 6/7/16			
		LC Samples	NS 6/6/16						No Liquid Present	
H4	H-4	H4-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			
		H4-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H4-SB03	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
H5	H-5	H5-SS01	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS02	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS03	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS04	BMG/NS 6/9/16				MG/KP 6/13/16			
		LC Samples	BMG/NS 6/9/16						No Liquid Present	
H6	H-6	H6-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		
		H6-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
		H6-SB03	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		
H9	H-9	H9-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
		H9-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/21/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
H11	H-11	H11-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		H11-SB02	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	MG/KP 6/7/16		NS/CGE 6/20/16
H12	H-12	H12-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		NS/CGE 6/20/16
H14	H-14	H14-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	MG 6/21/16		
		H14-SB02	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16	NA DRY 6/17/16		
		H14-SB03	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16	MG 6/21/16		
H15	H-15	H15-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
		H15-SB02	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
		H15-SB03	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
H16	H-16	H16-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/13/16	MG/KP 6/13/16	JS 6/19/16		
H17	H-17	H17-SB01	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		NS/CGE 6/20/16
		H17-SB02	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		NS/CGE 6/20/16
		H17-SB03	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		NS/CGE 6/20/16
		H17-SB01 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16	NA DRY 6/19/16		NS/CGE 6/20/16
		H17-SB02 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16	KP 6/21/16 - PART		NS/CGE 6/20/16
		H17-SB03 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16	MG 6/21/16		NS/CGE 6/20/16
H18	H-18	H18-SS01	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		H18-SS02	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		LC Samples	BMG 6/7/16	NB 6/7/16					No Liquid Present	
H19	H-19	H19-SS01	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		NS/CGE 6/21/16
		H19-SS02	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		NS/CGE 6/21/16
H20	H-20	H20-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		H20-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		LC Samples	NS 6/6/16	NB 6/6/16					No Liquid Present	
H21	H-21	H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	MG 6/20/16		
		H21-SB02	BMG/NS 6/9/16	NB 6/10/16	NA	MG/KP 6/14/16	MG/KP 6/14/16	MG 6/19/16		
		H21-SB03	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	MG 6/19/16		
H22	H-22	H22-SS01	NS 6/10/16				NS/JH 6/15/16			NS/CGE 6/21/16
		H22-SS02	NS 6/10/16				NS/JH 6/15/16			NS/CGE 6/21/16
		LC Samples	NS 6/10/16						No Liquid Present	
P113	Plotting Room 113	P113-SB01	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16	JS 6/17/16		
		P113-SB02	NS 6/10/16	NB 6/10/16	NA	MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		
		P113-SB03	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16	JS 6/17/16		
AGC3	Camp Hero State Park Bluffs	NA	*Debris removal completed 6/17/16*							
BG01	Background Samples	BG01-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS08	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
BG02	Background Samples	BG02-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SS08	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
BG03	Background Samples	BG03-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/21/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
BG04	Background Samples	BG04-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16

Note - Items highlighted in green were completed on 6/21/16

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/22/2016 Wednesday

DR No. 21		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: H 81°F	Partly Cloudy	**Days without a lost time injury:**	21

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Kelly Lurie	10.5	SSHO	AECOM	YSI 6920 Water Level Meter (3)	Mark Keonig, USACE
Amanda Martin	10.5	Site Supervisor	AECOM	GeoTech Peristaltic Pump (3)	
Nicole Schulman	10.5	Geologist	AECOM	PID MiniRae 3000 (4)	
John Schroeder	10.5	Geologist	AECOM	PID MiniRae 2000 (1)	
Mike Glinski	10.5	Geologist	AECOM	Shondstadt Magnetometer	
Katie Priess	10.5	Environmental Scientist	AECOM	Trimble Geo XH	
Nina Bennerson	10.5	UXO Tech II	AECOM	Generator (CGE)	
Tony Fiorentine	10	Surveyor	CGE	Survey Equipment (CGE)	
Chris Gamble	10	Surveyor	CGE	Hammer Drill (CGE)	
DAILY TOTAL	93.5				
TOTAL TO DATE	1699.25	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
None	None

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Groundwater Sampling

Groundwater samples were collected at the following AOCs.

Engineering Field Office (EFO). One groundwater sample was collected at EFO-SB01 for analysis of energetics. (This was a resample due to an out-of-temperature cooler containing the previous sample).

Motor Pool (MP). Two groundwater samples were collected at MP-SB03 and MP-MW01 (the existing well for nonpotable water at the Motor Pool). MP-SB03 was collected for analysis of VOCs, SVOCs, PCBs, Energetics; MP-MW01 was collected for analysis of VOCs, SVOCs, PCBs, Energetics, and metals. (MP-SB03 was a resample due to an out-of-temperature cooler).

QA/QC (MS/MSD and Duplicate) samples were collected at various AOCs to achieve a rate of 10% duplicates and 20% MS/MSD per analysis site-wide.

The team made multiple visits to Building 3001 to attempt to identify the existing well in the area (called 3001-MW01 for the Phase 1 RI work); historic maps indicated that the well was in the back of the building under the Verizon Antenna, which was gated off from access and not accessible by the park service. Tom Dess was able to meet the team around 1700 and identified the well in another location: within the manhole where the new Suffolk County Water Line entered near Building 3001. The team will attempt to sample the well on 6/23/2016.

Building 107 - Sample Finalization

The concrete chip sample (107-CC01-01) in Building 107 was finalized; sample collection began on 6/19/16 in conjuction with the Building 107 Survey. However, the hammer/chisel method was not sufficient for obtaining concrete chips in this building and a hammer drill was obtained from CGE to finalize the sample. The team wore tyvek suites, rubber booties, respirators with P100/OV cartridges, hardhats, headlamps, and nitrile gloves while working inside the building due to due to potential safety concerns with PCBs and working in old/abandonded buildings. Another team member was located outside the entrance of the building within earshot in case of emergencies.

Surveying and GPS Coordinate Collection

GPS co-ordinates for borings/temporary wells and surface soil samples were collected at AOCs former Building 203, Building 2010, AST-35, FPH, WDS (-SB01 through -SB17), Motor Pool, Engineering Field Office, former Building 34, H-4, H-6, H-14, H-21, and Plotting Room 113, in conjuction with surveying oversight. AECOM collected Northing and Easting co-ordinates (x,y), while the CGE surveyors collected elevation data.

Sample Management and Shipment

Soil, groundwater, wipe, chip, and liquid characterization samples collected on Monday 6/20/16, Tuesday 6/21/16, and Wednesday 6/22/16 were Quality Control checked, recorded on Chain of Custody records, and packed for shipment. Eight coolers were shipped overnight via FedEx for delivery to RTI Labortories (Livonia, MI). Chain of Custody records were e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/22/2016 Wednesday

DR No. 21		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORK COMPLETED BY AECOM SUBCONTRACTORS

Chris Gamble and Tony Fiorintine (CGE) completed surveying of the remaining temporary wells at AOCs former Building 203, Building 2010, AST-35, FPH, WDS (-SB01 through -SB17), Motor Pool, Engineering Field Office, former Building 34, H-4, H-6, H-14, H-21, and Plotting Room 113.

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AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 11 team members would be on site on 6/20/16 (including USACE, AECOM, and CGE).

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

One team member discovered an imbedded tick during evening tick check on 6/21/2016. An AECOM incident report was completed by the SSHO Kelly Lurie and all appropriate managers were notified.

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

Camp Hero Phase 1 RI Field Activities
Field Task Tracking Sheet
Last Updated: 6/22/2016

AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
B113	Battery 113	113-CC01							AM/JS 6/21/16	
		113-WP01							AM/JS 6/21/16	
		113-LC01							AM/JS 6/21/16	
		113-LC02							KL/NB 6/21/16	
203	Former Building 203	203-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	KP 6/20/16		NS/CGE 6/22/16
		203-SB02	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	JS/KP 6/21/16		NS/CGE 6/22/16
		203-SB03	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	JS/KP 6/21/16		NS/CGE 6/22/16
		203-SB04	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16	MG 6/21/16		NS/CGE 6/22/16
		203-SB05	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16	MG 6/21/16		NS/CGE 6/22/16
		PZ-1	AM 6/16/16	NB 6/16/16	NYSP 6/15/16	MG/KP 6/16/16				NS/CGE 6/22/16
		PZ-2	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				NS/CGE 6/22/16
		PZ-3	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	MG/KP 6/16/16				NS/CGE 6/22/16
2010	Building 2010 (UST 30)	2010-SB01	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	No Well		NS/CGE 6/20/16
		2010-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16	No Well		
		2010-SB02	NS 6/7/16	NB 6/7/16	NS/CGE May 2016	MG 6/8/16	MG 6/8/16	KL 6/12/16		NS/CGE 6/20/16
		2010-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			
F100C	Building F100C (UST 34)	F100C-SB01	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		NS/CGE 6/22/16
		F100C-SB02	NS 6/9/16	NB 6/10/16	NS/CGE May 2016	MG/KP 6/10/16	MG/KP 6/10/16	KL 6/12/16		NS/CGE 6/22/16
AST35	AST 35/H-13	AST35-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/16/16		NS/CGE 6/22/16
		AST35-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		NS/CGE 6/22/16
		AST35-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		NS/CGE 6/22/16
		AST35-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE May 2016	MG/KP 6/12/16	MG/KP 6/12/16	JS 6/14/16		NS/CGE 6/22/16
FPH	Fuel Pump House and Distribution Line for AST-35	FPH-SB01	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL 6/14/16		NS/CGE 6/22/16
		FPH-SB02	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		NS/CGE 6/22/16
		FPH-SB03	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		NS/CGE 6/22/16
		FPH-SB04	BMG 6/9/16	NB 6/9/16	NS/CGE 6/10/16	NS/JH 6/12/16	NS/JH 6/12/16	KL/NB 6/13/16		NS/CGE 6/22/16
STB	Building 22 (Tank B)	STB-SB01	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		NS/CGE 6/20/16
		STB-SB01 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SB02	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		NS/CGE 6/20/16
		STB-SB02 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SB03	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	KL 6/10/16		NS/CGE 6/20/16
		STB-SB03 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SB04	BMG 6/7/16	NB 6/7/16		MG 6/8/16	MG 6/8/16	No GW Sample		NS/CGE 6/20/16
		STB-SB04 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		STB-SS05	BMG 6/7/16	NB 6/7/16			MG 6/8/16			NS 6/20/16
		STB-SS05 - REDO					MG/KP 6/15/16			NS 6/20/16
		STB-SS06	BMG 6/7/16	NB 6/7/16			MG 6/8/16			NS 6/20/16
		STB-SS06 - REDO					MG/KP 6/15/16			NS 6/20/16
		STB-SS07	BMG 6/7/16	NB 6/7/16			MG 6/8/16			NS 6/20/16
		STB-SS07 - REDO					MG/KP 6/15/16			NS 6/20/16
3001	Building 3001	3001-MW01								
112	Battery 112 (UST 36, 37)	112-CC01							No Access	
		112-CC02							No Access	
		112-CC03							No Access	
107	Building 107	107-CC01							AM 6/22/16	
		107-WP01							AM 6/22/16	
		107-LC01							AM 6/22/16	
201	Building 201	201-SB01	BMG 6/9/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	NA DRY 6/19/16		NS/CGE 6/20/16
		201-WP01							No Access	

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AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
WDS	Abandoned Waste Disposal Systems (Site-wide)	WDS-SB01	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		NS/CGE 6/22/16
		WDS-SB02	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/14/16	MG/KP 6/14/16	NS/JH 6/16/16		NS/CGE 6/22/16
		WDS-SB03	BMG 6/9/16	NB 6/10/16	NS/CGE 6/10/16	NS/JH 6/14/16	NS/JH 6/14/16	NS/JH 6/16/16		NS/CGE 6/22/16
		WDS-SB04	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB05	NS 6/10/16			NS/JH 6/14/16	NS/JH 6/14/16			
		WDS-SB06	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	KP 6/19/16		NS/CGE 6/22/16
		WDS-SB07	AM 6/14/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	KP 6/20/16		NS/CGE 6/22/16
		WDS-SB08	BMG 6/9/16	NG 6/10/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		NS/CGE 6/22/16
		WDS-SB09	NS 6/10/16	NB 6/10/16		MG/KP 6/13/16	MG/KP 6/13/16	KP 6/18/16		NS/CGE 6/22/16
		WDS-SB10	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		NS/CGE 6/22/16
		WDS-SB11	AM 6/12/16	NB 6/14/16		MG/KP 6/13/16	MG/KP 6/13/16	JS 6/17/16		NS/CGE 6/22/16
		WDS-SB12	BMG 6/9/16	NB 6/9/16		MG/KP 6/13/16	MG/KP 6/13/16	KP 6/17/16		NS/CGE 6/22/16
		WDS-SB13	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/17/16		NS/CGE 6/22/16
		WDS-SB14	AM 6/14/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	NA DRY 6/17/16		NS/CGE 6/22/16
		WDS-SB15	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	MG 6/17/16		NS/CGE 6/22/16
		WDS-SB16	NS 6/12/16	NB 6/14/16		MG/KP 6/14/16	MG/KP 6/14/16	NA DRY 6/17/16		NS/CGE 6/22/16
		WDS-SB17	NS 6/12/16	NB 6/14/16		NS/JH 6/14/16	NS/JH 6/14/16	NA DRY 6/17/16		NS/CGE 6/22/16
		WDS-SB18	NS 6/6/16	NB 6/14/16	NYSP 6/15/16	MG/KP 6/16/16	MG/KP 6/16/16	JS/KP 6/21/16		NS/CGE 6/20/16
		WDS-SB19	NS 6/6/16	NB 6/9/16	NYSP 6/15/16	NS/JH 6/16/16	NS/JH 6/16/16	JS/KP 6/21/16		NS/CGE 6/20/16
		WDS-SB20	BMG/NS 6/6/16	NB 6/7/16	NA	MG 6/8/16	MG 6/8/16	KL 6/12/16		NS/CGE 6/20/16
		WDS-SB20 - REDO				MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/20/16
		WDS-SB21	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/12/16		NS/CGE 6/20/16
		WDS-SB22	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		WDS-SB23	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		NS/CGE 6/20/16
		WDS-SB24	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KL 6/9/16		NS/CGE 6/20/16
		WDS-SB25	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		WDS-SB26	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		WDS-SB27	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
MP	Motor Pool	MP-SB01	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	JS 6/16/16		NS/CGE 6/22/16
		MP-SB02	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/20/16		NS/CGE 6/22/16
		MP-SB03	BMG 6/9/16	NB 6/10/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	JS 6/22/16		NS/CGE 6/22/16
		MP-MW01						MG 6/22/16		NS/CGE 6/22/16
EFO	Engineering Field Office	EFO-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	KP 6/22/16		NS/CGE 6/22/16
034	Former Building 34	034-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/13/16	NS/JH 6/13/16	JS 6/19/16		NS/CGE 6/22/16
		034-SS02	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			NS/CGE 6/22/16
		034-SS03	BMG 6/9/16	NB 6/9/16			NS/JH 6/13/16			NS/CGE 6/22/16
		034-SS04	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			NS/CGE 6/22/16
		034-SS05	BMG 6/9/16	NB 6/9/16			MG/KP 6/13/16			NS/CGE 6/22/16
H1	H-1	H1-SS01	NS/AM 6/6/16				NS/JH 6/15/16			NS/CGE 6/21/16
		H1-SS02	NS/AM 6/6/16				NS/JH 6/15/16			NS/CGE 6/21/16
		LC Samples	NS/AM 6/6/16						No Liquid Present	
H2	H-2	H2-SS01	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			NS/CGE 6/21/16
		H2-SS02	BMG 6/9/16	NB 6/9/16			NS/JH 6/15/16			NS/CGE 6/21/16
		LC Samples	BMG 6/9/16	NB 6/9/16					No Liquid Present	
H3	H-3	H3-SS01	NS 6/6/16				MG/KP 6/7/16			
		H3-SS02	NS 6/6/16				MG/KP 6/7/16			
		LC Samples	NS 6/6/16						No Liquid Present	
H4	H-4	H4-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16			NS/CGE 6/22/16
		H4-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		NS/CGE 6/22/16
		H4-SB03	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		NS/CGE 6/22/16
H5	H-5	H5-SS01	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS02	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS03	BMG/NS 6/9/16				MG/KP 6/13/16			
		H5-SS04	BMG/NS 6/9/16				MG/KP 6/13/16			
		LC Samples	BMG/NS 6/9/16						No Liquid Present	
H6	H-6	H6-SB01	BMG 6/9/16	NB 6/9/16		NS/JH 6/12/16	NS/JH 6/12/16	JS 6/15/16		NS/CGE 6/22/16
		H6-SB02	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		NS/CGE 6/22/16
		H6-SB03	BMG 6/9/16	NB 6/9/16		MP/KP 6/12/16	MP/KP 6/12/16	JS 6/15/16		NS/CGE 6/22/16
H9	H-9	H9-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			
		H9-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/6/16			

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AOC	AOC Name	Location ID	Flagging	UXO Anomaly Avoidance	Vegetation Removal	Soil Boring	Soil Samples	Groundwater Samples	CC, WP, LC Samples	GPS Coordinates
H11	H-11	H11-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	KP/KL/NS 6/8/16		NS/CGE 6/20/16
		H11-SB02	BMG/NS 6/6/16	NB 6/7/16	NA	MG/KP 6/7/16	MG/KP 6/7/16	MG/KP 6/7/16		NS/CGE 6/20/16
H12	H-12	H12-SB01	BMG/NS 6/6/16	NB 6/7/16	NA	NS/KL 6/7/16	NS/KL 6/7/16	KL 6/9/16		NS/CGE 6/20/16
H14	H-14	H14-SB01	BMG 6/9/16	NB 6/9/16	NA	NS/JH 6/13/16	NS/JH 6/13/16	MG 6/21/16		NS/CGE 6/22/16
		H14-SB02	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16	NA DRY 6/17/16		NS/CGE 6/22/16
		H14-SB03	BMG 6/9/16	NB 6/9/16	NA	MG/KP 6/13/16	MG/KP 6/13/16	MG 6/21/16		NS/CGE 6/22/16
H15	H-15	H15-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
		H15-SB02	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
		H15-SB03	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/15/16	MG/KP 6/15/16	NA DRY 6/17/16		
H16	H-16	H16-SB01	BMG/NS 6/9/16	NB 6/10/16	NS/CGE 6/10/16	MG/KP 6/13/16	MG/KP 6/13/16	JS 6/19/16		NS/CGE 6/22/16
H17	H-17	H17-SB01	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		NS/CGE 6/20/16
		H17-SB02	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		NS/CGE 6/20/16
		H17-SB03	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16	GW not reached		NS/CGE 6/20/16
		H17-SB01 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16	NA DRY 6/19/16		NS/CGE 6/20/16
		H17-SB02 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16	KP 6/21/16 - PART		NS/CGE 6/20/16
		H17-SB03 - REDO	BMG/AM 6/6/16	NB 6/9/16	NS 6/9/16	MG/KP 6/16/16	MG/KP 6/16/16	MG 6/21/16		NS/CGE 6/20/16
H18	H-18	H18-SS01	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		H18-SS02	BMG 6/7/16	NB 6/7/16			MG/KP 6/12/16			
		LC Samples	BMG 6/7/16	NB 6/7/16					No Liquid Present	
H19	H-19	H19-SS01	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		NS/CGE 6/21/16
		H19-SS02	NS 6/6/16	NB 6/6/16	NA	NA	NS/JH 6/15/16	NA		NS/CGE 6/21/16
H20	H-20	H20-SS01	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		H20-SS02	NS 6/6/16	NB 6/6/16			MG/KP 6/7/16			
		LC Samples	NS 6/6/16	NB 6/6/16					No Liquid Present	
H21	H-21	H21-SB01	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	MG 6/20/16		NS/CGE 6/22/16
		H21-SB02	BMG/NS 6/9/16	NB 6/10/16	NA	MG/KP 6/14/16	MG/KP 6/14/16	MG 6/19/16		NS/CGE 6/22/16
		H21-SB03	BMG/NS 6/9/16	NB 6/10/16	NA	NS/JH 6/14/16	NS/JH 6/14/16	MG 6/19/16		NS/CGE 6/22/16
H22	H-22	H22-SS01	NS 6/10/16				NS/JH 6/15/16			NS/CGE 6/21/16
		H22-SS02	NS 6/10/16				NS/JH 6/15/16			NS/CGE 6/21/16
		LC Samples	NS 6/10/16						No Liquid Present	
P113	Plotting Room 113	P113-SB01	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16	JS 6/17/16		NS/CGE 6/22/16
		P113-SB02	NS 6/10/16	NB 6/10/16	NA	MP/KP 6/12/16	MP/KP 6/12/16	JS 6/16/16		NS/CGE 6/22/16
		P113-SB03	NS 6/10/16	NB 6/10/16	NA	NS/JH 6/12/16	NS/JH 6/12/16	JS 6/17/16		NS/CGE 6/22/16
AGC3	Camp Hero State Park Bluffs	NA	*Debris removal completed 6/17/16*							
BG01	Background Samples	BG01-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BG01-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
		BB01-SS08	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/9/16	MG/KP 6/9/16			
BG02	Background Samples	BG02-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
		BG02-SS08	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			NS/CGE 6/21/16
BG03	Background Samples	BG03-SB01	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB02	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB03	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SB04	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS05	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS06	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			
		BG03-SS07	NS 6/7/16	NB 6/10/16	NS 6/9/16	MG/KP 6/10/16	MG/KP 6/10/16			

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BG04	Background Samples	BG04-SB01	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SB02	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SB03	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SB04	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SS05	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SS06	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16
		BG04-SS07	NS 6/7/16	NB 6/7/16	NS 6/9/16	MG/KP 6/15/16	MG/KP 6/15/16			NS/CGE 6/21/16

Note - Items highlighted in green were completed on 6/22/16

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/23/2016 Thursday

DR No. 22		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903
Weather: H 78°F	Partly Cloudy	**Days without a lost time injury:**	22

NAME:	HRS	TRADE:	COMPANY:	EQUIPMENT:	VISITORS/AFFILIATION:
Kelly Lurie	7	SSHO	AECOM	YSI 6920 Water Level Meter (3)	Mark Keonig, USACE
Amanda Martin	7	Site Supervisor	AECOM	GeoTech Peristaltic Pump (3)	
Nicole Schulman	7	Geologist	AECOM	PID MiniRae 3000 (4)	
John Schroeder	7	Geologist	AECOM	PID MiniRae 2000 (1)	
Mike Glinski	7	Geologist	AECOM	Shondstadt Magnetometer	
Katie Priess	7	Environmental Scientist	AECOM	Trimble Geo XH	
Nina Bennerson	7	UXO Tech II	AECOM		
Chris Gamble	4	Surveyor/Geologist	CGE		
DAILY TOTAL	53				
TOTAL TO DATE	1752.25	*(on-site hours only)*			

SUBCONTRACTORS:	SITE DELIVERIES (indicate size, type, and condition):
None	Call-a-Head NY picked up the Porta-John from the Site. Pick-up of the Storage Units (AB Richards) was
	scheduled for Tuesday 6/28/2016.

WORKED PERFORMED BY AECOM

The AECOM team arrived on site at 0700 and completed the Morning Tailgate Health and Safety Meeting. The team reviewed the health and safety procedures with all on-site team members and task hazards associated with scheduled field work for the day.

Groundwater Sampling

The team attempted to collect a groundwater sample from the existing well at Building 3001, which was previously used for water in the building, prior to connection to Suffok County Water 5 years ago. However, after pumping 2.4 liters from well 3001-MW01, the pump stopped producing water. The peristaltic tubing intake was at a depth of 18.36 btoc. A depth to water measurement at the time the pump stopped producing water confirmed the water level to be 18.36 feet btoc. The initial depth to water prior to any pumping was 2.42 feet btoc, representing an initial water column of 15.94 feet from the water surface to the tubing intake. The 2.4 liters removed was consistent with the volume of water in a 15.94 column of water in 1-inch PVC pipe.

A depth to water measurement 30 minutes later at 0900 confirmed that the water level was still at 18.36 feet btoc, as did another measurement 30 minutes after that at 0930. Taking these observations into account, the team determined that it was very likely that the 1-inch PVC pipe was simply the water supply line from the pump, and that there was no communication between the water bearing formation and the 1-inch PVC pipe. Hence, the team chose not to submit the water collected because:

1. The water in the 1-inch PVC casing is stagnant water trapped in the casing by the supply pump check valve from approximately 5 years earlier when the water supply was changed over to the municipal supply line, OR
2. The water in the 1-inch PVC casing is surface water runoff from the surrounding paved/grass area.

While there is a 6-inch drain pipe at the bottom of the vault, the top of the well cap and 1-inch PVC pipe was just 14 inches above the vault floor. One cannot rule out a scenario in which a heavy rain could flood the vault with enough surface runoff to exceed the ability of the drain pipe to drain the vault, thus allowing surface runoff into the 1-inch PVC casing (which is not plugged).

The dimensions of the vault are 62 inches long, 60 inches wide, and 65 inches deep. The vault entrance is 36 inches long and 27 inches wide. Although there were ladder rungs to allow access into the vault, and the 4-inch well cap could likely be removed to inspect the well further, the vault may be a confined space, which would require further preparation to enter. Brendan McGuinness (AECOM) will research Suffolk County records to see if there is a well abandonment record.

Temporary Well Abandonment

All temporary wells were abandoned except those at former Building 203 (where the free product was located), AST-35, and the FPH. These temporary wells were left in place, because 1) they were located in locked areas of the park and 2) in case the need to re-sample arises, associated with the spill report filed for the AOC. Temporary wells which were left in place were cut at-grade and closed with a PVC cap.

Temporary wells were abandoned per applicable NYSDEC guidelines by removing (at minimum) the top 5-feet of riser from the temporary well and backfilling with bentonite, with sand at the top.

Status of Former Deep Supply Well at Building F100C

As requested by Mr. Goepfert (USACE), AECOM surveyed for the location and condition of the formerly used deep water well outside of Building F100c (and topographically downgradient of Building 203). However, the well could not be located outside of Building F100c and AECOM could not get inside the pump house building due to nailed up boarding to see if the well head existed inside the building.

GPS Coordinate Collection

GPS co-ordinates for borings/temporary wells and surface soil samples were collected at AOCs H-15, Plotting Room 113, Building 3001, H-2, H-5, H-9, H-18, H-20, BG01 and BG03.

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/23/2016 Thursday

DR No. 22		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

WORKED PERFORMED BY AECOM (continued)

IDW Management

One drum with liquid IDW (from purge water and decontamination water) and one drum with soil IDW (from petroleum-contaminated soil cores) were staged on-site at the Motor Pool. The drums were properly labeled with Non-Hazardous Waste Labels. The drums will be stored here until the Phase 2 RI Field Event, and IDW generated during Phase 2 will be added to the drums. At the end of Phase 2, IDW samples will be collected for waste characterization and off-site disposal of IDW will be arranged in a manner appropriate to its classification.

Sample Management and Shipment

Environmental samples collected on Sunday 6/19/16 (chip, wipe) and Tuesday 6/21/16 (groundwater) were Quality Control-checked, recorded on Chain of Custody records, and packed for shipment. One cooler was shipped overnight via FedEx for delivery to RTI Labortories (Livonia, MI). The Chain of Custody record was e-mailed to the project chemist (Devon Chicoine) and the RTI Laboratories Project Manager (Kathy Griffin) in the evening for shipment tracking. Additionally, custody of cooler #084, containing the fuel characterization samples, was transferred to ChrisGamble (CGE) at 1400 for transport to AB Oil for characterization (contracted through CGE). The cooler was delivered to AB Oil the afternoon of 6/23/2016.

Demobilization from the Site

Once the tasks for the day were complete, the team packed all supplies and equipment, cleaned the storage unit and guard shack, packaged unused bottleware and coolers for shipment to RTI Laboratories, and demobilized from the site. The Camp Hero State Park master keys and West Gate Guard Shack key were returned to Tom Dess at Montauk Downs.

WORK COMPLETED BY AECOM SUBCONTRACTORS

Chris Gamble was on site from 1000 to 1400 to assist with well abandonment and other miscellaneous tasks. Custody of cooler #084, containing the fuel characterization samples, was transferred to to Mr. Gamble at 1400 for transport to AB Oil for characterization (contracted through CGE). The cooler was delivered to AB Oil the afternoon of 6/23/2016. The sample will be analyzed by Dexsil test for halogenated solvents, toxicity and ignitability.

AGREEMENTS MADE/CONVERSATIONS (Refer to telecons, phone records, and/or logbooks for details)

Tom Dess (NY State Parks Superintendent) was notified in the morning that 10 team members would be on site (including USACE, AECOM, and CGE).

REQUEST FOR INFORMATION (RFI)

None

TRANSMITTALS / SUBMITTALS

None

AIR MONITORING COMMENTS:

None

SAFETY OBSERVATIONS/VIOLATIONS/COMMENTS

None

SITE OBSERVATIONS

None

Superintendent (Signature):

Amanda Martin

United States Army Corps of Engineers
Former Camp Hero Remedial Investigation
Montauk, New York

Contractor Daily Reports

DATE: 6/23/2016 Thursday

DR No. 22		**WRITTEN BY**: Amanda Martin	**PROJECT NUMBER**: 60443903

Daily Photos

Photo 1. 3001-MW01 vault, showing confined nature of the sapce.

Photo 2. 3001-MW01 vault, showing surface runoff potential.

Photo 3. 3001-MW01: 4-inch casing with 1-inch PVC, 6-inch drain pipe.

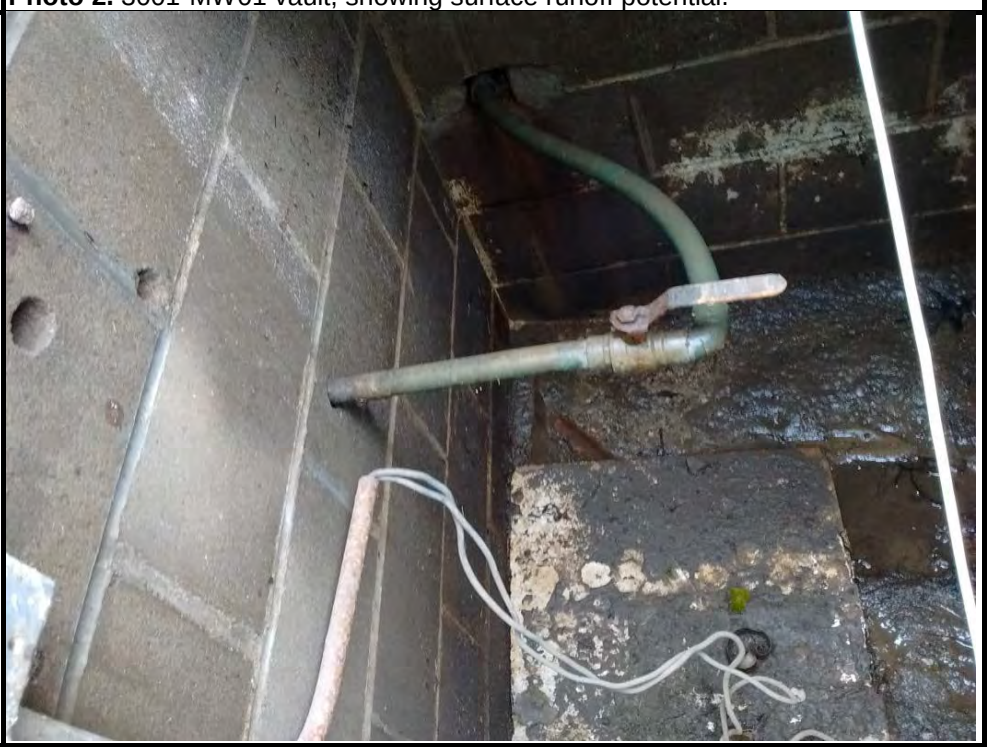

Photo 4. 3001-MW01, municipal water supply line and prior holes for well supply line.

Appendix I

Photograph Log

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AGC Site 3. Old, rusted boiler on the Camp Hero State Park Bluffs/AGC Site 3, May 2016. Boiler was removed and disposed of in June 2016.

AGC Site 4. Historic Infrastructure exposed from erosion of bluff outcrops at ACG Site 4, May 2016.

Fuel Pump House / AST 35. Geophysical survey around the Fuel Pump House to identify former fuel distribution line, May 2016.

Fuel Pump House / AST 35. Sample location coordinate collection using the Global Positioning System Trimble GeoXH unit, June 2016.

Fuel Pump House / AST 35. Collection of temporary well location surface elevations by the Clean Globe Environmental (CGE) land surveying team, June 2016.

Fuel Pump House / AST 35. Geologist Mike Glinski (AECOM) performing PID-screening of soil cores from location FPH-SB01, June 2016.

Fuel Pump House / AST 35. Geologist Mike Glinski (AECOM) completing soil logging at FPH-SB01 while Kathryn Priess (AECOM) collects soil samples, June 2016.

Fuel Pump House / AST 35. Soil core collection from location AST35-SB03 with the Direct Push 6620 DT rig by New England Geotech (NEG), June 2016.

Fuel Pump House / AST 35. View of the former AST 35 containment area and the Fuel Pump house from the North, with sample locations flagged, June 2016.

Fuel Pump House / AST 35. Nicole Schulman (AECOM) completing soil logging at AST35-SB03 while John Hudson (CGE) collects soil samples, June 2016.

Fuel Pump House / AST 35. The end of the former fuel distribution line at the Fuel Pump House, identified by Shondstadt® magnetometer, June 2016.

Fuel Pump House / AST 35. Location FPH-SB03 had elevated PID readings in soil and the temporary well headspace and petroleum odor in purged groundwater, June 2016.

Former Building 034. Debris at former Building 034, which led to development of an additional AOC, May 2016.

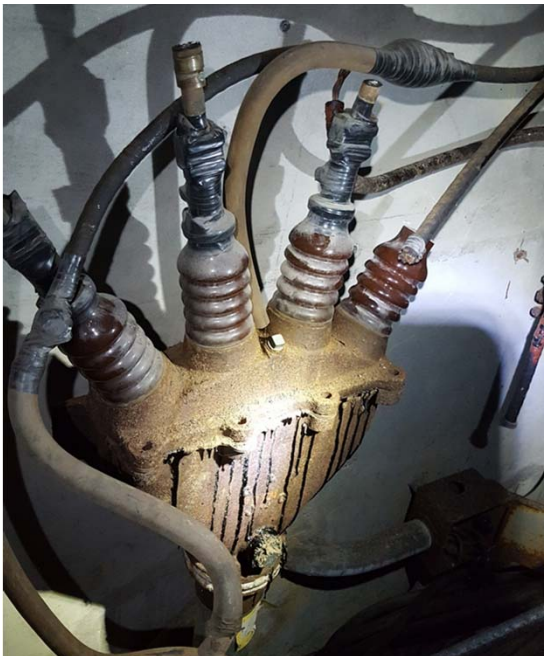
Former Building 034. Furnace at former Building 034 near former building remnants, May 2016.

Former Building 034. Botanist Steve Glenn (AECOM) performs the rare plant survey at former Building 034, May 2016.

Building 107 (Electrical Substation). Greta White and Amanda Martin (AECOM) in PPE before entering Building 107 to collect concrete chip samples for PCBs, June 2016.

Building 107 (Electrical Substation). Portions of the former transformer, including a medium voltage cable breakout, June 2016.

Building 107 (Electrical Substation). Portions of the former transformer, including a medium voltage cable breakout and metal boxes, June 2016.



Building 107 (Electrical Substation). Close-up of a medium voltage cable breakout with dried oil, June 2016. One wipe sample was collected from the surface.

Battery 113. Chris Gamble (CGE) begins demolition of the entrance to Battery 113 with a demolition drill, June 2016.

Battery 113. John Schroeder (AECOM) progresses demolition of the entrance to Battery 113 with a sledge hammer, June 2016.

Battery 113. Final crawlspace entrance to Battery 113, June 2016.

Battery 113. Hazardous materials survey team in PPE, including tyvek suits and Air-Purifying Respirators (APRs), prior to entrance to Battery 113, June 2016.

Battery 113. Hazardous materials survey team entering Battery 113 with lights, sampling equipment, and other supplies, June 2016.

Battery 113. Pit with standing water in Battery 113. Liquid characterization sample B113-LC02-01 collected at this location, June 2016.

Battery 113. Second pit with standing water near entrance to Battery 113. No liquid characterization collected at this location, June 2016.

Battery 113. Access to main hallway of Battery 113 from entryway, June 2016. This demolition was already present when the team entered the Battery.

Battery 113. Metal gate at hallway to Power Room in Battery 113, June 2016. Gate is rusted in place and cannot open further.

Battery 113. Stairwell and hallway from main hallway in Battery 113 to the Power Room, with rotten wooden floorboards near foot of stairwell, June 2016.

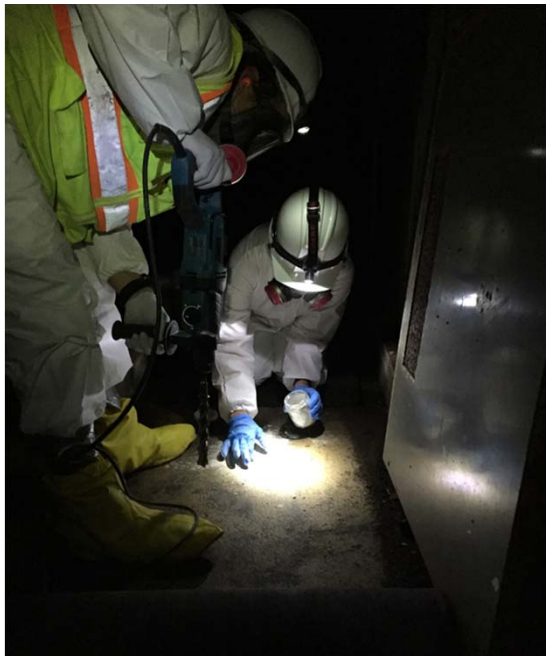
Battery 113. Fuel ASTs 3 and 4 in the Power Room of Battery 113. Tanks were not labeled; weathered fuel was present in tanks, June 2016.

Battery 113. Three extremely rusted, unlabeled cylinders present below ASTs 3 and 4; the cylinders appeared to be empty, June 2016.

Battery 113. Trenches with piping in the Power Room of Battery 113, June 2016.

Battery 113. Trenches with piping in the Power Room of Battery 113, covered with rotting wooden planks, June 2016.

Battery 113. Floor staining in Electric Room of Battery 113 which was the location of concrete chip sample B113-CC01-01, June 2016.



Battery 113. Collection of concrete chip sample in Battery 113 Electric Room with rotary hammer drill at location of floor staining, June 2016.

Battery 113. Former Transformer case in Battery 113 Electric Room, June 2016.

Battery 113. Partial cable components of the former transformer in the Electric Room of Battery 113, June 2016.

Battery 113. Partial cable components of the former transformer in the Electric Room of Battery 113, June 2016.

Former Building 203. Soil core collection from location 203-SB02 with the Direct Push 6620 DT rig by New England Geotech (NEG), June 2016.

Former Building 203. Former Building 203 area with the Radar Tower in the background, location 203-SB04 in the foreground, June 2016.

Former Building 203. The end of the former fuel distribution line from the Fuel Pump House at former Building 203, identified by Shondstadt® magnetometer, June 2016.

Former Building 203. Location PZ-03 at former Building 203 being gauged with an interface probe; five feet of free product was identified on 17 June 2016.

Building 203. Drilling equipment parked at former Building 203 beside the Radar Tower (Building 201), June 2016.

Building 2010. Pipe on the east side of Building 2010, June 2016.

Building 2010. Pipe at Building 2010, June 2016.

Building 2010. Unknown structure near Building 2010, June 2016.

Existing well at Building 3001. Vault for historic water well at Building 3001, showing the confined nature of the space, June 2016.

Existing well at Building 3001. Vault for historic water well at Building 3001, showing surface runoff potential, June 2016.

Existing well at Building 3001. Inside of the vault for the existing well at Building 3001, showing 4-inch casing with a 1-inch PVC pipe, with 6-inch drain pipe, June 2016.

Existing well at Building 3001. Municipal water supply line and prior holes for well supply line inside vault, June 2016.

Building F100C. New England Geotech completing decontamination of the drill rod at Building F100C, June 2016.

Building F100C. Piping at Building F100C, June 2016.

H-2. Drum at H-2, June 2016.

H-3. Drum at H-3, May 2016.

H-3. Building foundation located near H-3 identified during May 2016 site walk.

H-3. Surface soil sample collection at H-3 via hand auger, June 2016.

H-3. Surface soil sample collection and sample management at H-3, June 2016.

H-5. Drainage swale at H-5 behind the Motor Pool, May 2016.

H-9. Old, rusted boiler at H-9, May 2016.

H-9. Additional debris at H-9 near boiler, May 2016.

H-11 and H-12. Drilling activities at AOCs H-11 and H-12 in the picnic area of Camp Hero State Park, June 2016.

H-11 and H-12. Drilling activities at AOCs H-11 and H-12 in the picnic area of Camp Hero State Park, June 2016.

H-15. Soil core collection at H-15, June 2016.

H-15. Soil cores from location H15-SB02, from 0 to 25 ft bgs, with very slight moisture noted from 15 to 25 ft bgs, June 2016.

H-17. Soil cores from H-17, displaying sandy lithology, June 2016.

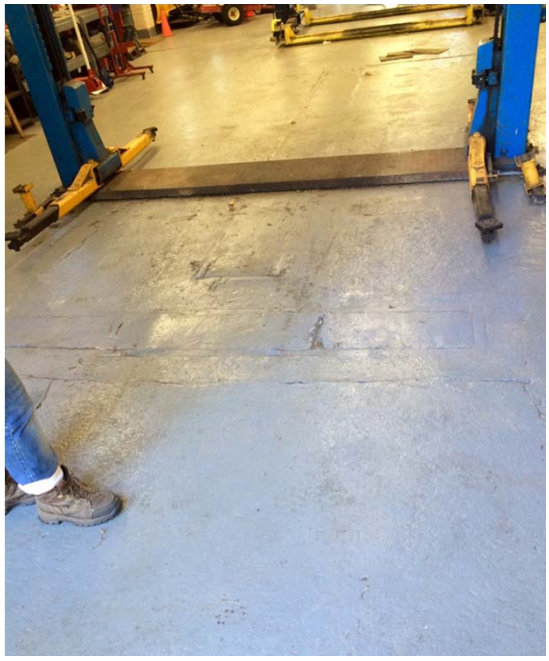
H-18. UXO Technician II LeNina Bennerson (AECOM) performs a magnetometer survey of H-18; there was no drum at this location but metal debris were identified, June 2016.

H-19. The former AST at AOC H-19, May 2016. Surface soil sampling and PID headspace screening were conducted underneath the AST in June 2016.

H-20. The drum at H-20, located within the wooden revetments of Camp Hero State Park, June 2016.

H-20. Geologist Mike Glinski (AECOM) and Mike Podamy (NEG) conduct surface soil sampling adjacent to H-20, June 2016.

Motor Pool. Marked electric lines from the utility clearance at the Motor Pool, June 2016.



Motor Pool. Motor Pool garage bay drilling location (MP-SB01), which was the site of the former DoD hydraulic lift, June 2016.

Motor Pool. Soil core collection from location MP-SB01 inside the Motor via the Direct Push 6620DT rig by NEG, June 2016.

Motor Pool. Soil core collection from location MP-SB01 inside the Motor via the Direct Push 6620DT rig by Keith Precious (NEG), June 2016.

Motor Pool. John Hudson (CGE) completing PID screening of the soil core from MP-SB01, the location within the Motor Pool garage bay, June 2016.

Motor Pool. Close-up of the soil core from MP-SB01, the location within the Motor Pool garage bay, June 2016.

Motor Pool. Existing well at the Motor Pool near active ASTs, June 2016.

Plotting Room 113. Entrance to Plotting Room 113. Metal debris was located nearby via magnetometer survey in May 2016; sampling was conducted in June 2016.

Suspected Tank B (Building 22). Mike Podamy (NEG) conducting soil borings around Suspected Tank B via Direct Push rig 6620DT, June 2016.

Suspected Tank C (former Building 2). Building debris uncovered while conducting "test holes" at the suspected tank C location, June 2016.

Suspected Tank C (former Building 2). Pipe uncovered while conducting "test holes" at the suspected tank C location, June 2016.

Suspected Tank C (former Building 2). "Test holes" were conducted in June 2016, to investigate anomalies identified in the May 2016 geophysical survey.

Suspected Tank H (Building 109). "Test holes" were conducted in June 2016, to investigate anomalies identified in the May 2016 geophysical survey.

Suspected Tank H (Building 109). Wire mesh and rebar identified in “test holes” to investigate anomalies identified in the May 2016 geophysical survey, June 2016.

Suspected Tank H (Building 109). Wire mesh and rebar identified in “test holes” to investigate anomalies identified in the May 2016 geophysical survey, June 2016.

Suspected Tank H (Building 109). Backfilled "test holes" at suspected tank H, June 2016.

Waste Disposal System. Soil core collection from a waste disposal system location via the Direct Push 6620DT rig by Keith Precious (NEG), June 2016.

Waste Disposal System. Re-collection of the WDS-SB01 0 to 5 ft bgs run, which yielded more recovery than the initial run; still wet/mucky near surface, June 2016.

Waste Disposal System. Soil core collection from location WDS-SB01 by the chlorine contact chamber via the Direct Push 6620DT rig by Mike Podamy (NEG), June 2016.

Waste Disposal System. Soil core collection from location WDS-SB03 by the chlorine contact chamber via the Direct Push 6620DT rig by Keith Precious (NEG), June 2016.

Waste Disposal System. Concrete cover/manhole near roadside at the original RI Work Plan WDS-SB06 location, June 2016.

Waste Disposal System. Portion of water line found in vicinity of the original RI Work Plan WDS-SB06 location, June 2016.

Waste Disposal System. Uncovered concrete feature/suspected septic tank or cleanout found in area to which WDS-SB06 and -SB07 were relocated, June 2016.

Waste Disposal System. Flagged locations for WDS-SB06 and WDS-SB07 across the road from the original RI Work Plan locations, June 2016.

Waste Disposal System. Advancing boring WDS-SB07, June 2016. Location was relocated across the street due to identification of a suspected septic tank.

Waste Disposal System. Soil core from location WDS-SB07 showing zone of concrete rubble around 6.5 to 7 ft bgs, June 2016.

Waste Disposal System. Soil cores at location WDS-SB14, including the first four runs (0 to 20 ft bgs), June 2016.

Kathryn Priess (AECOM) collecting groundwater samples.

Mike Glinski (AECOM) collecting groundwater samples.

John Schroeder (AECOM) collecting groundwater samples.